



A PECO Energy/British Energy Company

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**AmerGen Energy Company**

Oyster Creek  
U.S. Route 9 South  
P.O. Box 388  
Forked River, NJ 08731-0388  
Phone: 609-971-4000

1940-00-20207

U.S. Nuclear Regulatory Commission  
Attention: Document Control Desk  
Washington, D.C. 20555

Dear Sir:

Subject: Oyster Creek Generating Station  
Docket No. 50-219  
Emergency Plan Implementing Procedure Revisions

In accordance with 10 CFR 50, Appendix E, Section V, enclosed is the newly revised Index for the Oyster Creek Emergency Plan Implementing Procedures and the below listed procedures.

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EPIP-OC-.01	Classification of Emergency Conditions	8
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OEP-ADM-1319.05	Oyster Creek Emergency Preparedness Program	1

A445

**EPIP SERIES - EMERGENCY PLAN IMPLEMENTING PROCEDURES**

<b><u>PROCEDURE NO.</u></b>	<b><u>TITLE</u></b>	<b><u>REV. NO.</u></b>	<b><u>DATE</u></b>
6630-ADM-4010.03	Emergency Dose Calculation Manual (EDCM)	11	07/23/00
EPIP-OC-.01	Classification of Emergency Conditions	8	08/08/00
EPIP-OC-.02	Direction of Emergency Response/Emergency Control Center	25	08/08/00
EPIP-OC-.03	Emergency Notification	25	08/08/00
EPIP-OC-.06	Additional Assistance and Notification	22	08/08/00
EPIP-OC-.10	Emergency Radiological Surveys Onsite	10	08/08/00
EPIP-OC-.11	Emergency Radiological Surveys Offsite	15	08/08/00
EPIP-OC-.12	Personnel Accountability	8	08/08/00
EPIP-OC-.13	Site Evacuation and Personnel Mustering at Remote Assembly Areas	7	08/08/00
EPIP-OC-.25	Emergency Operations Facility (EOF)	22	08/08/00
EPIP-OC-.26	The Technical Support Center	21	08/08/00
EPIP-OC-.27	The Operations Support Center	9	08/08/00
EPIP-OC-.31	Environmental Assessment Command Center	11	08/08/00
EPIP-OC-.33	Core Damage Estimation	5	08/08/00
EPIP-OC-.35	Radiological Controls Emergency Actions	14	08/08/00
EPIP-OC-.40	Site Security Emergency Actions	10	08/08/00
EPIP-OC-.41	Emergency Duty Roster Activation	5	08/08/00
EPIP-OC-.44	Thyroid Blocking	1	08/08/00
EPIP-OC-.45	Classified Emergency Termination/Recovery	1	08/08/00
OEP-ADM-1311.03	Emergency Preparedness Section Administration	4	08/08/00
OEP-ADM-1319.01	Oyster Creek Emergency Preparedness Program	7	08/08/00
OEP-ADM-1319.02	Emergency Response Facilities & Equipment Maintenance	7	08/08/00
OEP-ADM-1319.04	Prompt Notification System	2	08/08/00
OEP-ADM-1319.05	Oyster Creek Emergency Preparedness Program	1	08/08/00

If further information is required, please contact Mr. Robin Brown, Manager, Experience Assessment at 609-971-4979.

Very truly yours,

A handwritten signature in black ink, appearing to read 'Ron J. DeGregorio', with a large, sweeping flourish at the end.

Ron J. DeGregorio  
Vice President  
Oyster Creek

RJD/REB:ew

Enclosures

cc: Administrator, Region I  
NRC Sr. Project Manager  
NRC Resident Inspector

**OYSTER CREEK™  
EMERGENCY PREPAREDNESS  
IMPLEMENTING PROCEDURE**

Number  
**EPIP-OC-.01**

Title  <b>CLASSIFICATION OF EMERGENCY CONDITIONS</b>		Revision No.  <b>8</b>
Applicability/Scope  Applies to work at Oyster Creek		Responsible Office  Emergency Preparedness
This document is within QA plan scope Safety Reviews Required		Effective Date  Date of Sale
<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No		

Prior Revision 7 incorporated the following Temporary Changes:

N/A

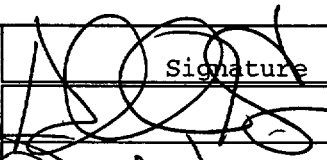
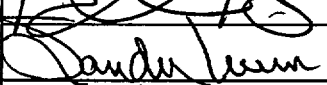
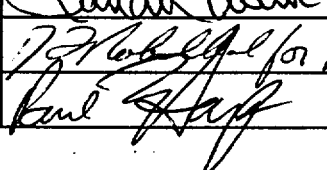
This Revision 8 incorporates the following Temporary Changes:

N/A

List of Pages (all pages rev'd to Rev. 8)

1.0 to 9.0  
E1-1 to E1-13  
E2-1 to E2-38  
E3-1 to E3-4  
E4-1

**NON-CONTROLLED  
This Document Will Not  
Be Kept Up To Date  
DCC Oyster Creek**

	Signature	Concurring Organization Element	Date
Originator		Emergency Preparedness Planner	3/13/2000
Concurred By		Director, OC	3/20/00
Approved By		Manager Nuclear Safety	3/28/00
		Mgr. Emergency Preparedness	3/28/00





# OYSTER CREEK EMERGENCY PREPAREDNESS IMPLEMENTING PROCEDURE

Number

**EPIP-OC-.01**

Title

Revision No.

## CLASSIFICATION OF EMERGENCY CONDITIONS

8

## PROCEDURE HISTORY

REV	DATE	ORIGINATOR	SUMMARY OF CHANGE
4	11/95	P. Hays	Adds description of "explosion", add EAL for ISFSI facility, rewords UE I.4 to reflect physical changes to plant, and revised/deleted EAL's based on NRC's EPPOS #1.
5	01/99	A. Smith	Add phone number for Lamont-Doherty Observatory, to Category "O" Basis. Add note to Category "Q" Fire to Review Cat. P-2 for Potential Explosive Damage. Update the reference to Rolm phones to Meridian in Category "L" Basis. Change "AND" to "AN" in Category "P" Basis as it relates to explosion.
6	05/99	A. Smith	Rephrase statement in CAT "K" basis for "Major Spent Fuel Damage"
7	03/00	S. Smith	Provide examples of fuel clad damage in table on E4-1. Correct typo on E2-16 MR/HR to MR/YR. Correct typo on E2-29. EAL #4 to EAL #5, add clarifying words to basis relating to the "Facility" for tornado touch down and add "area" to protected boundary.
8	DOS	A. Smith	Change references from GPU or GPUN to OCNGS.

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**CLASSIFICATION OF EMERGENCY CONDITIONS**

Revision No.

**8**

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**CLASSIFICATION OF EMERGENCY CONDITIONS**

Revision No.

**8**

1.0 PURPOSE

- 1.1 To define those conditions which shall be classified as emergency conditions at the Oyster Creek Nuclear Generating Station (OCNGS).
- 1.2 To provide guidance in classifying such conditions.

2.0 APPLICABILITY/SCOPE

- 2.1 To the OCNGS Plant Operations Department and the Emergency Response Organization to identify and classify in-plant or onsite emergency conditions as defined under the OCNGS Emergency Plan.

3.0 DEFINITIONS

- 3.1 Alert - Events are in process 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.
- 3.2 Emergency Action - Those measures or steps taken to ensure that an emergency situation is assessed (assessment actions) and that the proper corrective and/or protective actions are taken.
- 3.3 Emergency Actions Levels (EAL's) - Predetermined conditions or values, including radiological dose rates, specific contamination levels of airborne or waterborne concentrations of radioactive materials, events such as natural disasters or fire, or specific instrument indications which, when reached or exceeded, require the implementation of the Emergency Plan. See Appendix 1 of this procedure, "Matrix of Emergency Action Levels".

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- 3.4 EAL Applicability - Reactor Plant conditions are specified for which each EAL category of events are applicable. If the plant is in an applicable condition as listed in the category an emergency declaration is required. If the plant is not in a condition listed, an emergency declaration is not required. The definitions of the five possible plant conditions are listed on the bottom of each page in the Matrix of EALs.
- 3.5 Fission Product Barriers
- The Fuel Cladding
  - The Reactor Coolant System (RCS)
  - The Primary Containment
- 3.6 Fuel cladding integrity - The fuel cladding shall be considered breached if coolant activity exceeds 300 uci/gm Dose Equivalent Iodine (DEI) or, Off-gas discharge indicates greater than 10,000 mR/Hr.
- 3.7 General Emergency - Events are in process or have occurred which involve actual or imminent substantial core degradation or melting with potential for loss of containment integrity. Releases can be reasonably expected to exceed EPA Protective Action Guideline exposure levels offsite for more than the immediate site area.
- 3.8 Primary Containment Integrity - The primary containment shall be considered breached if any of the following conditions exist during an accident sequence:
- 3.8.1 Unexplained rapid decrease in D.W. Pressure (exceeds makeup capacity)
- or-
- 3.8.2 Unexplained increase in Secondary Containment A.R.M.'s in more than one area with known or suspected leakage from Primary Containment.
- or-
- 3.8.3 Venting of the D.W. is required for accident control.

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- 3.9 RCS Integrity - Shall be considered breached if there is confirmed leakage from the RCS in excess of 50 gpm.
- 3.10 Site Area Emergency - Events are in process or have occurred which involve an actual or likely major failure of plant functions needed for protection of the public. Any releases are not expected to exceed EPA Protective Action Guideline exposure levels except near Site Boundary.
- 3.11 Sustained - In excess of (5) five consecutive minutes or less at the Emergency Director's discretion.
- 3.12 Unusual Event - Events are in process 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.

4.0 RESPONSIBILITIES

- 4.1 The Group Shift Supervisor (GSS) is responsible for the initial evaluation of abnormal or emergency site conditions and for directing immediate Emergency Plan Implementing Procedure emergency actions once assuming the duties of the Emergency Director.
- 4.2 The GSS is responsible for implementing this procedure until relieved of Emergency Director duties by a qualified Emergency Director.
- 4.3 The Emergency Director is responsible for the continuous assessment and evaluation of emergency conditions and for directing immediate Emergency Plan Implementing Procedure emergency actions.

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**8****5.0 PROCEDURE**

- 5.1 The GSS/Emergency Director (ED) shall evaluate upon recognition of in-plant and onsite conditions to determine if an Emergency Action Level (EAL) has been attained or will be attained. Appendix 1 of this procedure, "Matrix of Emergency Action Levels", will aid in rapid identification of the appropriate emergency classification. Appendix 2 of this procedure provides the basis for specific EALs. Exhibit 2 provides a guideline for assessing the status of the fission product barriers.
- 5.2 The GSS/ED shall CLASSIFY the emergency condition when an EAL has been confirmed to be attained or exceeded at the highest applicable Emergency level. The GSS/ED should CLASSIFY an emergency condition before the EAL has been reached if it has been determined with his judgment that the EAL will be reached.
- 5.2.1 Emergency Classifications shall be made as soon as possible after confirmation that an EAL has been met or will be met. This ensures that proper protective and corrective actions are implemented and that appropriate offsite authorities are promptly notified (within 15 minutes of declaration).
- 5.2.2 If a time requirement for an entry condition is not met and information is available indicating that the time requirement will eventually be met, the GSS/ED should without waiting declare the event prior to the time requirement being met.

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5.2.3 If an EAL is missed and discovered at some time in the future, an emergency declaration is not appropriate if the EAL is no longer met. Timely (approximately within 15 minutes) notification to NRC and NJOEM should still be performed indicating the EAL missed and current plant status. Judgment must be exercised in determining if the EAL is no longer in existence. All effects on plant safety must be considered even after the event has passed. (i.e. A tornado striking the facility would normally pass quickly, but the effects on safety equipment could be sustained. Therefore, an ALERT (cat. 0.4.) should be declared as soon as possible even after the tornado has passed.)

5.3 When an emergency classification has been made, the GSS/ED shall IMPLEMENT EPIP-OC-.02 and assume the duties of the Emergency Director until relieved of Emergency Director duties by a qualified Emergency Director.

5.4 The GSS/ED shall CONTINUE ASSESSMENT of in-plant, onsite and offsite emergency conditions that may prompt emergency reclassification.

#### 6.0 REFERENCES

- OCNGS Emergency Plan, 2000-PLN-1300.01.
- OCNGS Emergency Plan Implementing Procedure (EPIP-OC-.02)  
"Direction of Emergency Response/Emergency Control Center".
- OCNGS Emergency Operating Procedures.
- NRC Branch Position on Acceptable Deviations to Appendix 1 to NUREG-0654/FEMA-REP-1.

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7.0 EXHIBITS

7.1 Appendix 1, "Matrix of Emergency Action Levels for Emergency Classification".

7.2 Appendix 2, EAL Basis Exhibits.

RPV Level

RPV Pressure

Rx Power

D.W. Temp, Cont. Press, Torus Temp/Level

RCS Integrity

Fuel Conditions

Radiological Releases

Contamination/Rad Material Control

Control Room Indications

Electrical Power

Plant Equipment/Eng. Safety Features

Natural and Man-Made Hazards

Fire

Security/Sabotage

Fission Product Barriers

Emergency Directors Judgement

Ex. 1 Cross Reference Index

Ex. 2 Fission Product Barrier Guidelines



# APPENDIX 1

## MATRIX OF EMERGENCY ACTION LEVELS FOR EMERGENCY CLASSIFICATION

CATEGORY	UNUSUAL EVENT	ALERT	SITE AREA EMERGENCY	GENERAL EMERGENCY
<p>(A) RPV LEVEL</p> <p>Applicability: Power Operations Hot Shutdown Cold Shutdown Refuel</p>	<p>1. RPV Level <math>\leq</math> 86" TAF (Low Low Level) for 5 minutes or longer, -and- Not lowered by procedure</p>	<p>1. RPV Level <math>\leq</math> 61" TAF (Low Low level) for 5 minutes or longer, -and- Not lowered by procedure</p>	<p>1. RPV Level <math>\leq</math> 0" TAF for 5 minutes or longer, -and- Not lowered by procedure, -or- 2. RPV Level cannot be determined for 2 minutes or longer.</p>	<p>1. RPV Level <math>\leq</math> 30" TAF for 2 minutes or longer <b>NOTE:</b> This condition is indicative of a "loss of 2 out of 3 fission product barriers with a potential loss of the third".</p>
<p>(B) RPV PRESSURE</p> <p>Applicability: Power Operations Hot Shutdown</p>	NONE	<p>1. RX pressure greater than 1230 psig.</p>	<p>1. RX pressure greater than 1375 psig.</p>	NONE
<p>(C) RX POWER</p> <p>Applicability: Power Operations</p>	NONE	<p>1. A scram signal received and power remains greater than 2%.</p>	<p>1. A scram signal received and power remains greater than 2% with torus temperature greater than or equal to Fig. L Boron injection temp. limit per EMG-3200.01B.</p>	NONE
<p>(D) DRYWELL TEMPERATURE</p> <p>Applicability: Power Operations Hot Shutdown</p>	<p>1. Drywell bulk temp. <math>\geq</math> 150°F (normal maximum drywell temperature) but <math>&lt;</math> 281°F for 5 minutes or longer.</p>	<p>1. Drywell bulk temp. cannot be maintained below 281°F. (maximum drywell design temperature)</p>	<p>1. Drywell bulk temp. cannot be maintained below 281°F. (maximum drywell temperature) and containment spray inoperable.</p>	NONE

**Power Operations** - Tech Spec Definition.

**Hot Shutdown** - **Shutdown Condition or Refuel Mode** as defined by Tech Spec and Rx coolant temperature not below 212°F or not vented.

**Cold Shutdown** - Tech Spec Definition.

**Refuel** - Tech Spec Definition of **Refuel Mode** and Rx coolant temperature below 212°F and vented.

**Defueled** - No fuel in the reactor vessel.

(EPIP01/S3)

## APPENDIX 1

MATRIX OF EMERGENCY ACTION LEVELS FOR EMERGENCY CLASSIFICATION

<u>CATEGORY</u>	<u>UNUSUAL EVENT</u>	<u>ALERT</u>	<u>SITE AREA EMERGENCY</u>	<u>GENERAL EMERGENCY</u>
<p>(E) CONTAINMENT PRESSURE</p> <p>Applicability: Power Operations Hot Shutdown</p>	<p>1. Three (3) psig or greater containment pressure and RPV level cannot be maintained greater than 138 inches TAF (Lo level scram).</p>	<p>1. Torus pressure &gt;12.0 psig.</p>	<p>1. Torus pressure above primary containment pressure limit (Figure J, EMG-3200.02 - Containment Venting required).</p>	<p>1. Containment hydrogen Concentration equal to or greater than 6% <u>and</u> Drywell or Torus Oxygen Concentration greater than 5%. <u>NOTE:</u> This condition is indicative of a "Loss of 2 out of 3 fission product barriers with a potential loss of the third".</p>
<p>(F) TORUS TEMPERATURE</p> <p>Applicability: Power Operations Hot Shutdown</p>	<p>1. Torus water temperature cannot be restored and maintained below 95°F within 24 hrs. during normal operations or below 105°F while testing.</p>	<p>1. Torus water temperature at or above 110°F.</p>	<p>1. Torus temperature and Rx pressure cannot be maintained below the heat capacity temperature limit. (Figure F, per EMG-3200.02).</p>	<p>NONE</p>
<p>(G) TORUS LEVEL</p> <p>Applicability: Power Operations Hot Shutdown *Cold Shutdown *Refuel</p>	<p>1. Torus water level below minimum LCO (143 inches W.R.) but greater than 110 inches W.R. actual level and cannot be restored within 4 hours. -or- 2. Torus water level above maximum LCO (156 inches W.R.) and cannot be restored within 4 hours.</p>	<p>1. Torus water level at or below 110 inches W.R., and Torus level cannot be restored within 4 hours.</p>	<p>1. Torus level and RPV pressure cannot be maintained below the torus load limit. (Figure E, per EMG-3200.02)</p>	<p>NONE</p>

\*Torus Level is not applicable in cold shutdown or refuel conditions if Tech Spec section 3.5.A.1 is not required to be met.

## Power Operations - Tech Spec Definition.

Hot Shutdown - **Shutdown Condition or Refuel Mode** as defined by Tech Spec and Rx coolant temperature not below 212°F or not vented.

### Cold Shutdown - Tech Spec Definition.

Refuel - Tech Spec Definition of **Refuel Mode** and Rx coolant temperature below 212°F and vented.

Defueled - No fuel in the reactor vessel.

# APPENDIX 1

## MATRIX OF EMERGENCY ACTION LEVELS FOR EMERGENCY CLASSIFICATION

CATEGORY	UNUSUAL EVENT	ALERT	SITE AREA EMERGENCY	GENERAL EMERGENCY
<p>(H) RCS INTEGRITY</p> <p>Applicability: Power Operations Hot Shutdown</p>	<p>1. a. Rx isolation confirmed to be caused by:</p> <ul style="list-style-type: none"> <li>• Low-Low Level, -or-</li> <li>• MSL Hi Flow, -or-</li> <li>• MSL Low Press, (with verified pipe break) -or-</li> <li>• MSL Trunnion Room high temperature -or-</li> </ul> <p>b. ISO Condenser Isolation confirmed to be caused by:</p> <p>Isolation Condenser Hi Flow (with verified pipe break) -or-</p> <p>c. Primary containment isolation confirmed to be initiated by:</p> <ul style="list-style-type: none"> <li>• Low-Low Level, -or-</li> <li>• Hi Drywell Pressure -or-</li> </ul> <p>2. Confirmed Leak rate greater than:</p> <p>a. 5 gpm total unidentified leakage -or-</p> <p>b. 25 gpm total (identified and unidentified) but less than 50 gpm from the Rx Coolant System.</p>	<p>1. a. Rx Isolation required -and- MSIV's malfunction causing unisolated Main Steam Line -or-</p> <p>b. ISO Condenser (IC) isolation required -and- ISO Condenser steam or condensate valves malfunction causing unisolated I.C. -or-</p> <p>c. Primary Cont. isolation required and Primary Cont. isolation valves malfunction causing unisolated release path. -or-</p> <p>2. Confirmed leak rate exceeds 50 gpm from the Rx Coolant System.</p>	<p>1. a. Confirmed main steam line break which exceeds 500,000 lbm/hr outside primary containment -and- MSL's are not isolated -or-</p> <p>b. ISO Condenser break outside primary containment -and- ISO Condenser steam or condensate lines are not isolated.</p> <p><b>NOTE:</b> These conditions represent a loss of containment and Rx Coolant System Barriers.</p>	<p>NONE</p>

**Power Operations** - Tech Spec Definition.

Hot Shutdown - **Shutdown Condition or Refuel Mode** as defined by Tech Spec and Rx coolant temperature not below 212°F or not vented.

**Cold Shutdown** - Tech Spec Definition.

Refuel - Tech Spec Definition of **Refuel Mode** and Rx coolant temperature below 212°F and vented.

Defueled - No fuel in the reactor vessel.

(EPIP01/S3)

# APPENDIX 1

## MATRIX OF EMERGENCY ACTION LEVELS FOR EMERGENCY CLASSIFICATION

CATEGORY	UNUSUAL EVENT	ALERT	SITE AREA EMERGENCY	GENERAL EMERGENCY
<p>(I) FUEL CONDITIONS</p> <p>Applicability: All plant conditions</p>	<p>Fuel Damage Indicated</p> <ol style="list-style-type: none"> <li>Offgas of 3,330 mR/hr or increase of 666 mR/hr in 30 minutes.</li> <li>-or-</li> <li>Reactor coolant Iodine activity of greater than 0.2 uCi/gm, but less than 300 uCi/gm Dose Equivalent Iodine (DEI)</li> <li>-or-</li> <li>Unexplained, verified stack gas rad monitor Hi-Hi Alarm;</li> <li>-or-</li> <li>Unexplained, verified Hi-Hi alarm on any process rad monitor.</li> <li>-or-</li> <li>Main Steam Isolation Valve Closure due to MSL High Radiation</li> </ol>	<p>Loss Fuel Cladding</p> <ol style="list-style-type: none"> <li>Offgas of greater than 10,000 mR/Hr</li> <li>-or-</li> <li>Reactivity coolant Iodine (DEI) activity of greater than or equal to 300 uCi/gm, DEI.</li> </ol>	<p>Significant (20%) Fuel Cladding failure indicated by:</p> <ol style="list-style-type: none"> <li>Containment Hi-Range Radiation Monitoring System (CHRRMS) reading greater than or equal to 2.0E+4 R/Hr</li> <li>-or-</li> <li>Containment Hydrogen greater than or equal to 10%.</li> </ol>	<p>NONE</p>

**Power Operations** - Tech Spec Definition.

Hot Shutdown - **Shutdown Condition or Refuel Mode** as defined by Tech Spec and Rx coolant temperature not below 212°F or not vented.

**Cold Shutdown** - Tech Spec Definition.

Refuel - Tech Spec Definition of **Refuel Mode** and Rx coolant temperature below 212°F and vented.

Defueled - No fuel in the reactor vessel.

(EPIP01/S3)

## APPENDIX 1

## MATRIX OF EMERGENCY ACTION LEVELS FOR EMERGENCY CLASSIFICATION

CATEGORY	UNUSUAL EVENT	ALERT	SITE AREA EMERGENCY	GENERAL EMERGENCY
<p>(J) RADIOLOGICAL RELEASES</p> <p>Applicability: All plant conditions</p>	<p>1. Noble Gas: Stack Monitor greater than CPSUE* -or- 2. Iodine: Release rate greater than 4 uCi/sec -or- 3. 10 CFR 20, Appendix B, Table 2, Column 2, Limits exceeded in discharge canal at Rt. 9 Bridge -or- Offsite Dose:</p> <p>4. A valid integrated dose at (or beyond) the Site Boundary of greater than or equal to 0.1 mRem total whole body dose (TEDE) but less than 10 mRem total whole body dose (TEDE) exists as indicated by:</p> <ul style="list-style-type: none"> <li>• dose projections -or-</li> <li>• field team readings</li> </ul> <p>-or-</p> <p>5. A valid integrated dose at (or beyond) the Site Boundary of greater than 0.5 mRem (CDE) adult thyroid but less than 50 mRem (CDE) adult thyroid dose exists as indicated by:</p> <ul style="list-style-type: none"> <li>• dose projections -or-</li> <li>• field team readings</li> </ul>	<p>1. Noble Gas: Stack Monitor greater than CPSA** -or- 2. Iodine: Release rate greater than 40 uCi/sec -or- 3. 10 CFR 20, Appendix B, Table 2, Column 2, Limits exceeded by a factor of 10 in discharge canal at Rt. 9 Bridge. -or- Offsite Dose:</p> <p>4. A valid integrated dose at (or beyond) the Site Boundary of greater than or equal to 10 mRem total whole body dose (TEDE) but less than 50 mRem total whole body dose (TEDE) exists as indicated by:</p> <ul style="list-style-type: none"> <li>• dose projections -or-</li> <li>• field team readings</li> </ul> <p>-or-</p> <p>5. A valid integrated dose at (or beyond) the Site Boundary of greater than or equal to 50 mRem (CDE) adult thyroid but less than 250 mRem (CDE) adult thyroid dose exists as indicated by:</p> <ul style="list-style-type: none"> <li>• dose projections -or-</li> <li>• field team readings</li> </ul>	<p>Offsite Dose:</p> <p>4. A valid integrated dose at (or beyond) the Site Boundary of greater than or equal to 50 mRem total whole body dose (TEDE) but less than 1000 mRem (1 Rem) total whole body dose (TEDE) exists as indicated by:</p> <ul style="list-style-type: none"> <li>• dose projections -or-</li> <li>• field team readings</li> </ul> <p>-or-</p> <p>5. A valid integrated dose at (or beyond) the Site Boundary of greater than or equal to 250 mRem (CDE) adult thyroid but less than 5000 mRem (5 Rem) (CDE) adult thyroid dose exists as indicated by:</p> <ul style="list-style-type: none"> <li>• dose projections -or-</li> <li>• field team readings</li> </ul>	<p>Offsite Dose:</p> <p>4. A valid integrated dose at (or beyond) the Site Boundary of greater than or equal to 1000 mRem (1 Rem) total whole body dose (TEDE) exists as indicated by:</p> <ul style="list-style-type: none"> <li>• dose projections -or-</li> <li>• field team readings</li> </ul> <p>-or-</p> <p>5. A valid integrated dose at (or beyond) the Site Boundary of greater than or equal to 5000 mRem (5 Rem) (CDE) adult thyroid exists as indicated by:</p> <ul style="list-style-type: none"> <li>• dose projections -or-</li> <li>• field team readings</li> </ul>
<p>*CPSUE is the Unusual Event trigger provided routinely by Chemistry. **CPSA is the Alert trigger provided routinely by Chemistry.</p>				

Power Operations - Tech Spec Definition.

Hot Shutdown - **Shutdown Condition or Refuel Mode** as defined by Tech Spec and Rx coolant temperature not below 212°F or not vented.

Cold Shutdown - Tech Spec Definition.

Refuel - Tech Spec Definition of **Refuel Mode** and Rx coolant temperature below 212°F and vented.

Defueled - No fuel in the reactor vessel.

APPENDIX 1

MATRIX OF EMERGENCY ACTION LEVELS FOR EMERGENCY CLASSIFICATION

<u>CATEGORY</u>	<u>UNUSUAL EVENT</u>	<u>ALERT</u>	<u>SITE AREA EMERGENCY</u>	<u>GENERAL EMERGENCY</u>
<p>(K) CONTAMINATION/ RAD MATERIAL CONTROL</p> <p>Applicability: All plant conditions</p>	<p>Independent Spent Fuel Storage Installation</p> <p>1. 2R/hr at the face of a SF Module</p> <p>-or-</p> <p>1R/hr at 1 foot from a damaged Module in the Independent Spent Fuel Storage Installation</p>	<p>Rad Material Control</p> <p>1. Verified mechanical damage to irradiated fuel which results in a high alarm on any of the following refuel floor ARM's: B-9, C-9, C-10.</p> <p>-or-</p> <p>2. Any incident involving rad material which results in unexpected increase of in-plant rad levels or air-borne contamination by a factor of 1000.</p>	<p>Fuel Handling</p> <p>1. Major damage to spent fuel resulting in uncontrolled release of radioactive material, or uncontroll- able decrease in fuel pool water level below top of spent fuel.</p>	<p>NONE</p>

**Power Operations** - Tech Spec Definition.

Hot Shutdown - **Shutdown Condition or Refuel Mode** as defined by Tech Spec and Rx coolant temperature not below 212°F or not vented.

**Cold Shutdown** - Tech Spec Definition.

Refuel - Tech Spec Definition of **Refuel Mode** and Rx coolant temperature below 212°F and vented.

Defueled - No fuel in the reactor vessel.

(EPIP01/S3)

# APPENDIX 1

## MATRIX OF EMERGENCY ACTION LEVELS FOR EMERGENCY CLASSIFICATION

CATEGORY	UNUSUAL EVENT	ALERT	SITE AREA EMERGENCY	GENERAL EMERGENCY
(L) CONTROL ROOM INDICATIONS  Applicability: Power Operations	Loss of Indications:  1. Loss of indication or alarm on processing monitored systems or effluent stream in Control Room, causing Rx to be shutdown.  -or-  2. Loss of any means of plant assessment, <u>causing</u> Rx to be shutdown.	Loss of Indications:  1. Loss of 3 or more Control Room Annunciator Panels during power operations for greater than 5 mins. No backup alarm information capability available (SAR & PCS).	Loss of Indications:  1. Loss of 3 or more Control Room Annunciator Panels during power operations for greater than 5 mins. No backup alarm information capability available (SAR & PCS).  -and-  A plant transient condition exists which causes a change in Rx power of more than 10% (APRM).	NONE
(L) CONTROL ROOM INDICATIONS  Applicability: All Plant Conditions	3. Valid unplanned loss of all communications capability such that no means of notification to offsite agencies exist as determined by the GSS/ED.	2. Evacuation of Control Room anticipated or required with control of shutdown system established from local stations within 15 minutes.	2. Evacuation of Control Room <u>and</u> control of shutdown systems <u>not</u> established from local stations within 15 minutes.	NONE

**Power Operations** - Tech Spec Definition.

Hot Shutdown - **Shutdown Condition or Refuel Mode** as defined by Tech Spec and Rx coolant temperature not below 212°F or not vented.

**Cold Shutdown** - Tech Spec Definition.

Refuel - Tech Spec Definition of **Refuel Mode** and Rx coolant temperature below 212°F and vented.

Defueled - No fuel in the reactor vessel.

(EPIP01/S3)

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# APPENDIX 1

## MATRIX OF EMERGENCY ACTION LEVELS FOR EMERGENCY CLASSIFICATION

CATEGORY	UNUSUAL EVENT	ALERT	SITE AREA EMERGENCY	GENERAL EMERGENCY
(M) ELECTRICAL POWER  Applicability: Power Operations Hot Shutdown	Loss of Power:  1. Loss of power to 4160V Buses 1A and 1B for greater than one hour;  -or-  2. Loss of both diesel generator capabilities for greater than one hour.	Loss of Power:  1. Loss of power to 4160V Buses 1A and 1B for greater than 60 seconds but <u>less than 15 minutes</u>  -and- -Loss of both diesel generator capabilities;  -or-  2. Loss of all plant vital DC power for greater than 60 seconds but less than 15 minutes.	Loss of Power:  1. Loss of power to 4160V Buses 1A and 1B <u>Exceeds</u> 15 minutes  -and- -Loss of both diesel generator capabilities;  -or-  2. Loss of all plant vital DC power for more than 15 minutes.	NONE
(M) ELECTRICAL POWER  Applicability: Cold Shutdown Refuel/Defueled	3. Loss of power to 4160V Buses 1A and 1B for greater than 60 seconds but <u>less than 15 minutes</u>  -and- Loss of both diesel generator capabilities  -or-  4. Loss of all plant vital DC power for greater than 60 seconds but less than 15 minutes.	3. Loss of power to 4160V Buses 1A and 1B <u>Exceeds</u> 15 minutes.  -and- Loss of both diesel generator capabilities;  -or-  4. Loss of all plant vital DC power for more than 15 minutes.	NONE	NONE

**Power Operations** - Tech Spec Definition.

Hot Shutdown - **Shutdown Condition or Refuel Mode** as defined by Tech Spec and Rx coolant temperature not below 212°F or not vented.

**Cold Shutdown** - Tech Spec Definition.

Refuel - Tech Spec Definition of **Refuel Mode** and Rx coolant temperature below 212°F and vented.

Defueled - No fuel in the reactor vessel.

(EPIP01/S3)



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MATRIX OF EMERGENCY ACTION LEVELS FOR EMERGENCY CLASSIFICATION

<u>CATEGORY</u>	<u>UNUSUAL EVENT</u>	<u>ALERT</u>	<u>SITE AREA EMERGENCY</u>	<u>GENERAL EMERGENCY</u>
<p>(N) PLANT EQUIPMENT ENGINEERED SAFETY FEATURES OR FIRE PROTECTION SYSTEM</p> <p>Applicability: Power Operations Hot Shutdown for SAE, and GE</p> <p>Power Operations Hot Shutdown Cold Shutdown Refuel for UE and Alert</p>	<p>Failure to comply with Tech. Spec. L.C.O.'s</p> <p>1. Plant is not brought to required operating mode within Technical Specification L.C.O Action Statement Time.</p>	<p>Loss of Cold Shutdown Equipment</p> <p>1. Complete loss of all ability to achieve and maintain cold shutdown.</p>	<p>Loss of Hot Shutdown Equipment</p> <p>1. Complete loss of any function needed for plant hot shutdown, (e.g. Rx Prot. Sys. or CRD System) when hot shutdown is required.</p>	<p>Loss of Decay Heat Heat Removal</p> <p>1. Shutdown occurs, but all decay heat removal capability is lost. Significant cladding failure or fuel melt <u>could</u> occur in 10 hours with subsequent containment failure.</p>

**Power Operations** - Tech Spec Definition.

Hot Shutdown - **Shutdown Condition or Refuel Mode** as defined by Tech Spec and Rx coolant temperature not below 212°F or not vented.

**Cold Shutdown** - Tech Spec Definition.

Refuel - Tech Spec Definition of **Refuel Mode** and Rx coolant temperature below 212°F and vented.

Defueled - No fuel in the reactor vessel.

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MATRIX OF EMERGENCY ACTION LEVELS FOR EMERGENCY CLASSIFICATION

<u>CATEGORY</u>	<u>UNUSUAL EVENT</u>	<u>ALERT</u>	<u>SITE AREA EMERGENCY</u>	<u>GENERAL EMERGENCY</u>
<p>(O) NATURAL HAZARDS (Earthquakes, Intake Levels High Winds)</p> <p>Applicability: All Plant Conditions for UE and Alert</p>	<p>Natural Phenomenon</p> <ol style="list-style-type: none"> <li>1. Verified earthquake felt in plant.</li> </ol> <p>-or-</p> <ol style="list-style-type: none"> <li>2. Intake canal water level <math>\leq</math>-2.0 feet as measured by the staff gauge.</li> </ol> <p>-or-</p> <ol style="list-style-type: none"> <li>3. Intake water level 4.5 feet above sea level (1.5 feet below intake structure lower deck).</li> </ol> <p>-or-</p> <ol style="list-style-type: none"> <li>4. Sustained high winds greater than 74 mph, as indicated on wind speed recorder.</li> </ol> <p>-or-</p> <ol style="list-style-type: none"> <li>5. The National Weather Service is forecasting sustained winds in excess of 74 mph for the site within 4 hours.</li> </ol> <p>-or-</p> <ol style="list-style-type: none"> <li>6. The Oyster Creek site is included in a tornado "warning" area.</li> </ol>	<p>Natural Phenomenon</p> <ol style="list-style-type: none"> <li>1. Earthquake affecting plant operations.</li> </ol> <p>-or-</p> <ol style="list-style-type: none"> <li>2. Intake canal water level <math>\leq</math>-2.5 feet as measured by the staff gauge.</li> </ol> <p>-or-</p> <ol style="list-style-type: none"> <li>3. Intake water level at the intake structure lower deck.</li> </ol> <p>-or-</p> <ol style="list-style-type: none"> <li>4. Sustained hurricane force winds of greater than 95 mph, as indicated on wind recorder.</li> </ol> <p>-or-</p> <ol style="list-style-type: none"> <li>5. Any tornado striking the facility.</li> </ol>	<p>Natural Phenomenon</p> <ol style="list-style-type: none"> <li>1. Earthquake affecting systems required for shutdown.</li> </ol> <p>-or-</p> <ol style="list-style-type: none"> <li>2. Intake canal water level <math>\leq</math>-3.0 feet, as measured by the staff gauge.</li> </ol> <p>-or-</p> <ol style="list-style-type: none"> <li>3. Intake water level greater than 8 feet above sea level. (2.0 feet above intake structure lower deck).</li> </ol> <p>-or-</p> <ol style="list-style-type: none"> <li>4. Sustained wind speed in excess of 100 mph indicated in the Control Room.</li> </ol> <p>Applicability for SAE 1, 2, 3, &amp; 4 Power Operations, Hot Shutdown.</p>	<p>NONE</p>

**Power Operations** - Tech Spec Definition.

Hot Shutdown - **Shutdown Condition or Refuel Mode** as defined by Tech Spec and Rx coolant temperature not below 212°F or not vented.

**Cold Shutdown** - Tech Spec Definition.

Refuel - Tech Spec Definition of **Refuel Mode** and Rx coolant temperature below 212°F and vented.

Defueled - No fuel in the reactor vessel.

(EPIP01/S3)

# APPENDIX 1

## MATRIX OF EMERGENCY ACTION LEVELS FOR EMERGENCY CLASSIFICATION

CATEGORY	UNUSUAL EVENT	ALERT	SITE AREA EMERGENCY	GENERAL EMERGENCY
(P) MAN-MADE HAZARDS  Applicability: All Plant Conditions for UE and Alert	Hazards Experienced/Projected  1. Onsite aircraft crash outside the protected area fence <u>AND NOT</u> impacting permanent plant structures. -or- 2. Unanticipated explosion detected near the site <u>OR</u> onsite. -or- 3. Near the site or onsite TOXIC GAS, FLAMMABLE GAS or LIQUID release which could affect the habitability required for normal plant operability. -or- 4. Turbine rotor component (i.e., blades, wheels, shroud, bearings, or other rotating component) failure causing a Rx trip.	Hazards Experienced/Projected  1. Aircraft crash <u>OR</u> other missile impact within the protected area <u>OR</u> onto any permanent structures. -or- 2. Known explosion damage to any permanent plant structure. -or- 3. Release of TOXIC, or FLAMMABLE GAS into the plant which affects the safe operation of the plant as determined by the Group Shift Supervisor/ Emergency Director. -or- 4. Turbine failure resulting in casing penetration.	Hazards Experienced/Projected  1. Aircraft crash which affects vital structures by impact <u>OR</u> by fire. -or- 2. Explosion <u>OR</u> missile impact which caused severe damage to safe shutdown equipment. -or- 3. Entry of TOXIC or FLAMMABLE GAS into vital area which affects the operation of safe shutdown equipment.  Applicability for SAE 1, 2 & 3 Power Operations Hot Shutdown	NONE
(Q) FIRE  Applicability: All Plant Conditions	Fire  1. Valid Fire inside the Protected Area which cannot be controlled by the fire brigade within 10 minutes from the time of verification.  <u>NOTE:</u> Also see Cat. P-2	Fire  1. Fire which potentially affects the operability of a Safety System and the plant is in a transient condition requiring the use of the System.  <u>NOTE:</u> Also see Cat. P-2	Fire  1. Fire which renders a Safety System completely inoperable and that system is needed to function for accident control.  <u>NOTE:</u> Also see Cat. P-2	NONE

Power Operations - Tech Spec Definition.

Hot Shutdown - **Shutdown Condition or Refuel Mode** as defined by Tech Spec and Rx coolant temperature not below 212°F or not vented.

Cold Shutdown - Tech Spec Definition.

Refuel - Tech Spec Definition of **Refuel Mode** and Rx coolant temperature below 212°F and vented.

Defueled - No fuel in the reactor vessel.

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# APPENDIX 1

## MATRIX OF EMERGENCY ACTION LEVELS FOR EMERGENCY CLASSIFICATION

CATEGORY	UNUSUAL EVENT	ALERT	SITE AREA EMERGENCY	GENERAL EMERGENCY
(R) SECURITY- SABOTAGE  Applicability: All Plant Conditions	Security Threat  1. Group Shift Supervisor/ Emergency Director determination based on advice from the Site Protection Supervisor that a security threat, attempted entry, or attempted sabotage of the site (owner controlled area) condition exists.  -or- 2. Any attempted act of sabotage which is deemed legitimate in the judgment of the Group Shift Supervisor/Emergency Director, and affects the operations of the plant.	Security Threat  1. Group Shift Supervisor/ Emergency Director determination based on advice from the Site Protection Shift Supervisor that the compromise is onsite, but no penetration of the protected area has occurred.  -or- 2. Any act of sabotage which results in an actual or potential substantial degradation of the level or safety of the plant, as judged by the Group Shift Supervisor/Emergency Director.	Security Threat  1. Group Shift Supervisor/ Emergency Director determination based on advice from the Site Protection Shift Supervisor that security of the plant (vital area) is threatened by unauthorized (forcible) entry of the facility (protected area).  -or- 2. Any act of sabotage which results in an actual or likely major failures of plant functions needed for the protection of the public, as judged by the Group Shift Supervisor/Emergency Director.	Security Threat  1. Group Shift Supervisor/ Emergency Director determination based on advice from the Site Protection Shift Supervisor that the loss of physical security control of the plant (vital area) has occurred.  -or- 2. Any act of sabotage which results in imminent significant cladding failure or fuel melting with the potential for loss of containment integrity or the potential for the release of significant amounts of radioactivity in a short time as judged by the Group Shift Supervisor/Emergency Director.
(S) FISSION PRODUCT BARRIERS  Applicability: Power Operations Hot Shutdowns	None	None	None	Fission Product Barriers  1. Loss of 2 of 3 fission product barriers with potential loss of the third (i.e., loss of coolant accident, failure of ECCS, Core Melt Probable and Loss of Containment imminent).

**Power Operations** - Tech Spec Definition.

Hot Shutdown - **Shutdown Condition or Refuel Mode** as defined by Tech Spec and Rx coolant temperature not below 212°F or not vented.

**Cold Shutdown** - Tech Spec Definition.

Refuel - Tech Spec Definition of **Refuel Mode** and Rx coolant temperature below 212°F and vented.

Defueled - No fuel in the reactor vessel.

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APPENDIX 1

MATRIX OF EMERGENCY ACTION LEVELS FOR EMERGENCY CLASSIFICATION

<u>CATEGORY</u>	<u>UNUSUAL EVENT</u>	<u>ALERT</u>	<u>SITE AREA EMERGENCY</u>	<u>GENERAL EMERGENCY</u>
<p>(T) EMERGENCY DIRECTOR'S JUDGMENT</p> <p>Applicability: All Plant Conditions</p>	<p>Whenever plant conditions are in progress or have occurred which may indicate a potential degradation of the level of safety of the plant, as judged by the Shift Supervisor/Emergency Director.</p> <p><u>NOTE:</u> In exercising the judgment as to the need for declaring an Unusual Event, uncertainty concerning the safety status of the plant, the length of time the uncertainty exists and the prospects of resolution of ambiguities in a reasonable time period is sufficient basis for declaring an Unusual Event.</p>	<p>Whenever plant conditions are in progress or have occurred which may involve actual or potential substantial degradation of the level of safety of the plant, as judged by the Shift Supervisor/Emergency Director.</p> <p><u>NOTE:</u> In exercising the judgment as to the need for declaring an Alert, uncertainty concerning the safety status of the plant, the length of time the uncertainty exists the prospects for resolution of ambiguities beyond a reasonable time period and the potential of the level of safety of the plant is sufficient basis for declaring an Alert.</p>	<p>Whenever plant conditions are in progress or have occurred which may involve actual or likely major failures of the plant functions needed for the protection of the public as judged by the Shift Supervisor/Emergency Director.</p> <p><u>NOTE:</u> In exercising the judgment as to the need for declaring a Site Area Emergency, uncertainty concerning the status of the plant functions needed for the protection of the public, the length of time of the uncertainty exists, the prospects for resolution of ambiguities beyond a reasonable time and the potential degradation of the plant functions needed for protection of the public is sufficient basis for declaring a Site Area Emergency.</p>	<p>None</p>

**Power Operations** - Tech Spec Definition.

Hot Shutdown - **Shutdown Condition or Refuel Mode** as defined by Tech Spec and Rx coolant temperature not below 212°F or not vented.

**Cold Shutdown** - Tech Spec Definition.

Refuel - Tech Spec Definition of **Refuel Mode** and Rx coolant temperature below 212°F and vented.

Defueled - No fuel in the reactor vessel.

(EPIP01/S3)

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Title

**CLASSIFICATION OF EMERGENCY CONDITIONS**

Revision No.

**8**APPENDIX 2

## Category A "RPV Level"

(A)

**Condition  
Applicability****Power Operations, Hot Shutdown, Cold Shutdown, Refuel****Basis**

*Because Tech Specs recognize reactor level as a Safety Limit when there is irradiated fuel in the vessel, this EAL category shall apply for all conditions while there is fuel in the vessel. The only condition which does not apply is the Defueled condition.*

**Classification**

Unusual Event

**EAL**

RPV level  $\leq 86"$  TAF (Low-Low Level) for 5 minutes or longer,  
-and-  
Not lowered by procedure

**Basis**

This EAL is a precursor to situations leading to inadequate core cooling conditions. This situation indicates a potential degradation of the level of safety of plant due to an apparent inability to maintain normal makeup to the reactor vessel. This EAL is not intended to be applied to momentary reductions of level due to transients such as a Rx scram where level is controlled below the normal operating level. The use of 86" TAF as the setpoint is based on the Tech Spec value (7'2") as discussed under the Limiting Safety System Settings bases as an initiation signal to Core Spray System to ensure adequate Core Cooling. The 5 minutes is to prevent declaration of events which are simply transient conditions and not sustained failures. Intentional level reductions in accordance with SBEOPs or approved operation/maintenance procedures are not considered level control emergencies for the UE, Alert or SAE classes.

**Classification**

Alert

**EAL**

RPV level  $\leq 61"$  TAF (Low-Low-Low Level) for 5 minutes or longer,  
-and-  
Not lowered by procedure

**Basis**

The inability to maintain RPV level above 61" TAF should be considered a substantial degradation of the level of safety of the plant. The use of 61" TAF as the setpoint is based on the Symptom Based Emergency Operating Procedures. This lower limit for the alternate RPV water level control band is to ensure contingency actions can be initiated before RPV level decreases to the top of active fuel. This value is utilized to be consistent with the SBEOP's concern for Core Cooling by submergence. The 5 minutes is to prevent declaration of events which are simply transient conditions and not sustained failures. Intentional level reductions in accordance with SBEOPs or approved operation/maintenance procedures are not considered level control emergencies for the Alert class.

Title

**CLASSIFICATION OF EMERGENCY CONDITIONS**

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**8**APPENDIX 2  
(continued)

## Category A "RPV Level"

Basis (con't)  
Classification

Site Area Emergency

EAL

- (1) RPV level  $\leq 0$ " TAF for 5 minutes or longer  
-and-  
Not lowered by procedure  
-or-  
(2) RPV level cannot be determined for 2 minutes or longer

Basis

- (1) This EAL addresses the potential concern of adequate core cooling resulting from major failure of plant functions needed for the protection of the public. This condition assumes a loss of coolant in excess of makeup capacity with the potential loss of adequate core cooling. The use of 0" TAF is based on the SBEOP concern that the only mechanism to assure adequate core cooling is steam cooling. Intentional level reductions in accordance with SBEOPs or approved operation/maintenance procedures are not considered level control emergencies for the SAE class.
- (2) This EAL is intended to address the circumstances where "RPV level cannot be determined" as used by the SBEOP's. Since level cannot be determined the conservative assumption is made that it is less than the top of the active fuel. The 2 minutes is used because it is the most limiting maximum core uncover time and therefore provides additional conservatism. This EAL may escalate to the GE class based on indications of further degradation such as increasing Containment Hydrogen concentration, Containment High Range Radiation Monitors or other indicators of a "loss of 2 out of 3 fission product barriers with a potential loss of the third".

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**CLASSIFICATION OF EMERGENCY CONDITIONS**

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APPENDIX 2  
(continued)

Category A "RPV Level"

Classification      General Emergency

EAL      RPV level  $\leq$  -30" TAF for 2 minutes or longer,

Basis      This EAL assumes a breach of the RCS is the cause of the low RPV level. Due to the low level, overheating of the fuel clad with subsequent failure could occur leading to a potential containment failure. The cladding failure may be exhibited by the production of hydrogen. If this condition exists venting of the containment could be required. Under this set of circumstances plant conditions are unstable indicating a "loss of two out of three fission product barriers with a potential loss of the third. The use of -30" TAF is in recognition of the loss of core submergence and the loss of the Minimum Steam Cooling Water Level as identified in the SBEOP's. Further degradation may lead to clad failure and ultimately substantial core damage. The 2 minutes establishes the conservative approach by assuming the core is uncovered within 5 minutes of S/D, thereby meeting the max. core uncover time limit.  
It should also be noted, the classification is required even if a procedure would instruct such actions (level/power control) due to the potential for fuel damage under such extreme conditions.



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APPENDIX 2

Category B "RPV Pressure"

**(B)**  
**Condition**  
**Applicability**

***Power Operations, Hot Shutdown***

**Basis** ***For the vessel to have pressure present the reactor must be in either Power Operation or Hot Standby condition. The other conditions by definition do not include any pressure operation.***

Classification Alert

EAL Rx pressure greater than 1230 psig.

Basis This EAL is an escalation of the U.E. class. The value of 1230 psig was selected because it is the highest opening value for the safety valves as specified in Technical Specifications. This condition is indicative of a continuing pressure control failure which was not corrected by several safety functions. This EAL is not intended for short-lived pressure spikes such as after the design based transient - turbine trip without bypass capability, but rather a continuous high pressure condition, (existing for 5 consecutive minutes).

Classification Site Area Emergency

EAL Rx Pressure greater than 1375 psig

Basis This EAL is a further escalation of the high pressure condition. The value 1375 psig was selected because it is the safety limit value provided in Tech Specs. The pressure vessel is capable of withstanding this pressure, however, the extent to which this value can be exceeded and the duration of the condition is not readily known. Pressures in excess of design can lead to catastrophic failure of the vessel, having unknown impact on the fuel clad and containment barriers. Additionally this condition is indicative of a major loss of pressure control ability. For these reasons confirmed RPV pressures in excess of 1375 psig for any length of time should be classified at this level.

Title

**CLASSIFICATION OF EMERGENCY CONDITIONS**

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**8**

APPENDIX 2

Category C "Rx Power"

(C)  
Condition  
Applicability

**Power Operation**

**Basis**

*The Alert and SAE levels require Rx power to remain above 2%. By definition the only condition which the Rx can be critical in is Power Operations. The other conditions do not allow criticality by design and therefore do not apply.*

Classification

Alert

EAL

A scram signal received and power remains greater than 2%.

Basis

This EAL is intended to address the failure of the RPS to initiate and complete a scram which brings the reactor subcritical. This condition represents a major failure of the reactor protection system to complete its intended function. Such a failure is a substantial degradation of the level of safety of the plant. This EAL does not distinguish between a manually initiated scram or automatically initiated scram. If either method fails to initiate and complete the scram function and power remains greater than 2%, this EAL is met regardless of whether a backup function is implemented to completion.

Classification

Site Area Emergency

EAL

A scram signal received and power remains greater than 2% with torus temperature greater than or equal to Figure L, Boron injection initiation temperature limit per EMG-3200.01B.

Basis

This EAL is an upgraded condition of the Alert Classification. In conjunction with the failure of the RPS, the main condenser is assumed to be lost causing the containment to absorb the energy from the reactor. Continued operation in this manner could lead to a major failure of the primary containment which would have a significant impact on the general public.

Title

**CLASSIFICATION OF EMERGENCY CONDITIONS**

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APPENDIX 2

Category D, E, F, G "D.W. Temp, Cont. Press. Torus Temp and Level"

(D & E)  
Condition  
Applicability

**Power Operations, Hot Shutdown**

Basis

*The OC EAL basis for both of these categories is to address conditions which could lead to a loss of containment integrity. OC Tech Specs require containment integrity to be provided whenever the plant is greater than 212°F. or the Rx is critical (except during physics testing). By definition the only conditions which apply to critical or hot operations are Power Operation and Hot Shutdown.*

(F)  
Condition  
Applicability

**Power Operation, Hot Shutdown**

Basis

*Torus temperature is an indication of a reactor coolant leak when at power or hot. Additionally, its temperature is considered in accident analysis for accidents occurring while at power.*

*Tech Specs Section 3.5.A.1.C specifies when torus temperature limits apply. All limits are stated for power operation.*

*Because containment integrity is required when hot or critical, torus temperature EALS are required when in Power Operation or Hot Shutdown.*

(G)  
Condition  
Applicability

**Power Operations, Hot Shutdown, \*Cold Shutdown, \*Refuel**

Basis

*Torus level is required for conditions beyond conditions requiring containment integrity. Tech Spec Section 3.5.A.1.a&b state the max and min level allowed in the Torus and they are limiting if there is irradiated fuel in the vessel and work is being done which has potential to lower vessel level or the RPV is pressurized. This means torus level limits apply to all defined EAL Rx conditions except for Defueled or if Tech Spec Section 3.5.A.1 is not required to be met (\*while in Cold Shutdown or Refuel).*

Classification

Unusual Event

EAL's

- Cat. D Drywell bulk temperature  $\geq 150^{\circ}\text{F}$ . (Normal maximum D.W. temperature) but less than  $281^{\circ}\text{F}$  for 5 minutes or longer.
- Cat. E Three psig or greater containment pressure and RPV level cannot be maintained greater than 138 inches TAF. (Lo Level Scram)
- Cat. F Torus water temperature cannot be restored and maintained below  $95^{\circ}\text{F}$  within 24 hours during normal power operations or below  $105^{\circ}\text{F}$  while testing.
- Cat. G Torus water level below minimum LCO - or above maximum LCO -, and cannot be restored within 4 hours.

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APPENDIX 2  
(Continued)

Category D, E, F, G "D.W. Temp, Cont. Press. Torus Temp and Level"

Basis                    The EAL's in these categories at the U.E. Class are intended to address those precursor events and conditions which could lead to a loss of containment integrity. These EAL's are considered potential problems which have an impact on containment integrity. The primary concern is mitigation of the condition which is posing a threat to the containment.

Classification      Alert

EAL's	Cat. D	Drywell bulk temp cannot be maintained below 281°F. (Maximum drywell design temperature.)
	Cat. E	Torus pressure >12.0 psig.
	Cat. F	Torus water temperature at or above 110°F.
	Cat. G	Torus water level at or below 110 inches W.R., and torus level cannot be restored within 4 hours.

Basis	<p>The alert classification assumes a breach of the reactor coolant system has caused the increased containment parameters or a breach of the containment is the cause of the decreased torus level. Under these assumptions, the containment parameters utilized are indicative of a substantial degradation in the level of safety of the plant. These conditions should be validated by other plant parameters indicating a loss of coolant to the containment or a torus leak.</p>
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Classification	Site Area Emergency
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EAL's	Cat. D	Drywell bulk temp. cannot be maintained below 281°F and containment spray is inoperable.
	Cat. E	Torus pressure above primary containment pressure limit (Figure J - EMG-3200.02 Containment Venting req'd).
	Cat. F	Torus temperature and Rx pressure cannot be maintained below the heat capacity temperature limit (Figure F, EMG-3200.02).
	Cat. G	Torus level and RPV pressure cannot be maintained below the torus load limit (Figure E, EMG-3200.02).

Basis                    The conditions necessary to meet these EAL's are assumed to be from a breach of the Reactor Coolant System. These conditions are upgraded from the Alert Class because of the potential loss of containment. The breach of the containment may be from it's inability to withstand further stress or, intentional venting when directed by procedure. In any case this provides a release path to the environment which could adversely affect the general public.

APPENDIX 2  
(Continued)

Category D, E, F, G "D.W. Temp, Cont. Press. Torus Temp and Level"

Classification	General Emergency
EAL	Cat. E Containment H2 concentration equal to or greater than 6% and D.W. or Torus O2 concentration greater than 5%.
Basis	This EAL is intended to cover those situations where the hydrogen production is due to the zirconium-water reaction expected in fuel melt sequences. The oxygen component may be achieved through venting the containment or other means are possible. With the levels of 6% hydrogen and 5% oxygen an explosive mixture could exist. If ignited this could cause a breach of the containment. Since the fuel clad is already breached (zirc-water reaction) and the RCS is breached (hydrogen in containment) then this situation should be considered a loss of 2 out of 3 fission product barriers with a potential loss (or actual loss) of the third.

Title

**CLASSIFICATION OF EMERGENCY CONDITIONS**

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APPENDIX 2  
Category H "RCS Integrity"

(H)  
Condition  
Applicability

**Power Operations, Hot Shutdown**

Basis

**All items listed in this category are listed for systems required if hot or at power.**

**When in Cold S/D or Refuel condition, excessive leakage will cause RPV level to decrease and EAL category (A) will become the entry action level for these events.**

**This category is not applicable in the Defueled condition because RPV conditions are no longer supporting irradiated fuel containment.**

Classification

Unusual Event

EAL

- 1a. Rx Isolation confirmed to be caused by:
  - Low-Low level, -or-
  - MSL hi flow, -or-
  - MSL Low Press, (with verified pipe break)
  - MSL Trunnion Room high temperature
  - or-
- b. Iso Condenser isolation confirmed to be caused by:
  - Isolation Condenser Hi Flow (with verified pipe break)
  - or-
- c. Primary Containment Isolation confirmed to be initiated by:
  - Low-Low Level, -or-
  - Hi Drywell Pressure
  - or-
2. Confirmed leak rate greater than:
  - a. 5 gpm total unidentified leakage
  - or-
  - b. 25 gpm total (identified and unidentified) but less than 50 gpm from the Rx Cool. System

Basis

The EAL's presented in this class are indicative of a significant leak from the Reactor Coolant System. The conditions under item 1 indicate the need to stop a presumed leak and the isolation function works. The EAL's under item 2 are derived from the Tech Spec LCO on Rx Coolant allowable leak rate, since the Nureg specifically requires meeting this condition. In order to address relatively small leak rate concerns, confirmatory actions (assessment) should be done expeditiously, preferably within one hour of identification of problem. These EAL's should not be applied in circumstances which do not require meeting the Tech Spec conditions such as testing, or when the vessel is de-fueled.

Title

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APPENDIX 2

Category H "RCS Integrity"

Classification      Alert

EAL

- 1a. Rx isolation required
  - and-
  - MSIV's malfunction causing unisolated main steam line
  - or-
- b. Iso Condenser (I.C.) isolation required
  - and-
  - Iso Condenser steam or condensate valves malfunction causing unisolated I.C.
  - or-
- c. Primary Containment isolation required and primary containment isolation valves malfunction causing unisolated release path
  - or-
- 2. Confirmed leak rate exceeds 50 gpm from the Rx Coolant System

Basis

The intent of EAL #1 is to address the failure of the automatic isolation function. This is considered a significant degradation in the level of safety of the plant since the automatic function was required and did not occur or continue to completion. If a manual isolation is initiated by operator actions prior to the automatic function taking place this classification should not be declared. Alternately, if the automatic function fails to occur and a manual isolation or operator initiated isolation (eg. mode switch placed in run with MSL pressure less than 850) is implemented, the conditions of these EAL's are met. If the manual isolation actions fail to be effective consideration should be given to the SAE class of this category for continued release concerns.

Title

**CLASSIFICATION OF EMERGENCY CONDITIONS**

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**8**APPENDIX 2

## Category H "RCS Integrity"

Classification      Alert

Basis

The intent of EAL #2 is to address excessive leak rates from the Rx Coolant System. Confirmation of the leak rate should be done expeditiously, preferably within one hour of identification of the problem. Leak rate may be integrated over a reasonable period of time (e.g., 30 minutes) in cases where accuracy is important (i.e., around 50 gpm), but in cases of obvious large leaks, this period should be minimized. Thirty minutes was chosen as the integration period because it represents approximately 8 inches of RPV level at 50 gpm and is a marked step increase from the Unusual Event EAL. Thirty minutes also allows for an accurate measurement that reduces effects of transient conditions. A leak of this magnitude has the potential to cause damage to other equipment even during periods when there is no fuel in the vessel. For this reason, leaks from the RCS at this rate or higher require declaration of an Alert.



Title

**CLASSIFICATION OF EMERGENCY CONDITIONS**

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**8**

APPENDIX 2

Category H "RCS Integrity"

Classification	Site Area Emergency
EAL	<p>1a. Confirmed main steamline break which exceeds 500,000 lbm/hr outside primary containment</p> <p>-and-</p> <p>Main steamlines are not isolated</p> <p>-or-</p> <p>b. Iso Condenser break outside primary containment</p> <p>-and-</p> <p>Iso Condenser steam or condensate lines are not isolated</p>
Basis	<p>The conditions cited in these EAL's represent a release path to the environment. Under these conditions 2 fission product barriers are breached (Rx Coolant System indicated by the leak and primary containment indicated by failure to isolate or is being bypassed). Off-site dose assessment should be performed before de-escalation or termination from this condition because of the unknown release impact. The reason that 500,000 lb/hr was chosen is that this is the smallest value that CR instrumentation can indicate on the main steamline flow instrument on the front panel.</p> <p>Other situations may occur which indicate a failure of the RCS and also bypass containment, under these conditions E.D. Judgement may apply, but in all cases dose assessment should be performed.</p> <p>These EAL's are intended to address the Nureg statement "BWR steam line break outside containment without isolation".</p>

Title

**CLASSIFICATION OF EMERGENCY CONDITIONS**

Revision No.

**8**

APPENDIX 2

Category I "Fuel Conditions"

(I)  
**Condition  
Applicability**

**All Plant Conditions.**

**Basis**

**All conditions apply because even fuel pool accidents could lead to conditions meeting some of the EALs listed here.**

Classification

Unusual Event

EAL's

- Fuel Damage Indicated
1. Offgas of 3,330 mR/hr, or increase of 666 mR/hr in 30 min.  
-or-
  2. Reactor coolant Iodine activity of greater than 0.2uCi/gm, but less than 300 uCi/gm Dose Equivalent Iodine (DEI)  
-or-
  3. Unexplained, verified stack gas rad monitor Hi-Hi Alarm;  
-or-  
Unexplained, verified Hi-Hi Alarm on any process rad monitor;  
-or-
  4. Main Steam Isolation Valve Closure due to MSL High Radiation.

Basis

These EAL's are intended to address indications of irradiated fuel cladding perforation and the subsequent release of fission product gases. These conditions are precursors of more serious cladding degradation. The use of alarmed functions provides warning to the operator of potential fuel damage. The off-gas value of 3,330 mR/hr is derived from the use of the conversion factor of "150". The Nureg 0654 limit is 500,000 uci/sec. The conversion factor is normally less than the "150" value, however this provides the appropriate conservatism when assessing the status of the fuel.

Classification

Alert

EAL's

- Loss of Fuel Cladding
1. Offgas of greater than 10,000 mR/hr:  
-or-
  2. Reactor coolant Iodine activity of greater than or equal to 300 uCi/cc, DEI.

Basis

These EAL's are indicative of a breach of the fuel clad fission product boundary. This condition should be considered a "loss of 1 out of 3 fission product barriers" and requires classification as an alert.

Classification

Site Area Emergency

EAL's

- Significant (20%) Fuel Cladding failure indicated by:
1. Containment Hi-Range Radiation Monitoring System (CHRRMS) reading greater than or equal to 2.0E+4 R/Hr.  
-or-
  2. Containment Hydrogen greater than or equal to 10%.

Title

**CLASSIFICATION OF EMERGENCY CONDITIONS**

Revision No.

**8**APPENDIX 2

## Category I "Fuel Conditions"

## Basis

The radiation reading or hydrogen concentration inside the primary containment are expected to be due to a degraded core condition and a breach of the RCS boundary. This condition is indicative of a "loss of 2 out of 3 fission product barriers". The use of 10% H<sub>2</sub> concentration in this case has no bearing on the impact to the containment, but rather is indicative of the amount of fuel clad damage by the metal-water reaction.

Title

**CLASSIFICATION OF EMERGENCY CONDITIONS**

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APPENDIX 2

Category J "Radiological Releases"

(J)

**Condition  
Applicability**

**All Plant Conditions.**

**Basis**

**This covers any event which leads to a rad release regardless of plant condition.**

**Classifications**

Unusual Event

**EAL's**

1. Noble Gas: Stack Monitor greater than  $CPS_{UE}$   
-or-
2. Iodine: Release rate greater than 4 uCi/sec  
-or-
3. 10 CFR 20, Appendix B, Table 2, Column 2, limits exceeded in discharge canal at Rt. 9 Bridge  
-or-
- Off-site Dose:
4. A valid integrated dose at or beyond the Site Boundary of greater than or equal to 0.1 mRem total whole body (TEDE) but less than 10 mRem total whole body dose (TEDE) exists as indicated by: dose projections or field team readings  
-or-
5. A valid integrated dose at or beyond the Site Boundary of greater than or equal to 0.5 mRem (CDE) adult thyroid but less than 50 mRem (CDE) adult thyroid dose exists as indicated by: dose projections or field team readings.

**Basis**

Unplanned releases in excess of the site technical specifications that continue for 5 minutes or longer represent a potential degradation in the level of safety. The final integrated dose is not the primary concern here, it is the degradation in plant control implied by the fact that the release was not isolated. The term "Unplanned", as used in this context, includes any release for which a radioactive discharge permit was not prepared, or a release that exceeds the conditions (e.g., minimum dilution flow, maximum discharge flow, alarm setpoints, etc.) on the applicable permit. Offsite Dose due to plant releases (readings above background) can be determined from field measurement readings or dose projections. Monitor indications are calculated on the basis of the methodology of the Offsite Dose Calculation Manual (ODCM), which demonstrates compliance with 10CFR20 and/or 10CFR50 Appendix I requirements. In EAL 4, the 0.10 mR value is based on a proration of two times the 500 mR/yr basis of the 10CFR20 non-occupational MPC limits, rounded down to 0.10 mR per event duration.

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APPENDIX 2

Category J "Radiological Releases"

Classification Alert

- EAL's
1. Noble Gas: Stack Monitor greater than CPS<sub>a</sub>  
-or-
  2. Iodine: Release rate greater than 40 uCi/sec  
-or-
  3. 10 CFR 20, Appendix B, Table 2, Column 2, Limits exceeded by a factor of 10 in discharge canal at Rt. 9 Bridge.  
-or-
- Offsite Dose:
4. A valid integrated dose at or beyond the Site Boundary of greater than or equal to 10 mRem but less than 50 mRem total whole body dose (TEDE) exists as indicated by: dose projections or field team readings.  
-or-
  5. A valid integrated dose at or beyond the Site Boundary of greater than or equal to 50 mRem but less than 250 mRem (CDE) adult thyroid dose exists as indicated by: dose projections or field team readings.

Basis This event escalates from the Unusual Event by escalating the magnitude of the release by a factor of 10. In EAL 3, the 10.0 mR/hr value is based on a proration of 200 times the 500 mR/Yr basis of the 10CFR20 non-occupational MPC limits, rounded down to 10.0 mR/hr. EALs' at this level or higher are entry conditions to Procedure EMG-3200.12.

Classification Site Area Emergency

- EAL's
- Offsite Dose:
4. A valid integrated dose at or beyond the Site Boundary of greater than or equal to 50 mRem but less than 1000 mRem (1 Rem) total whole body dose (TEDE) exists as indicated by: dose projections or field team readings.  
-or-
  5. A valid integrated dose at or beyond the Site Boundary of greater than or equal to 250 mRem but less 5000 mRem (5 Rem) (CDE) adult thyroid exists as indicated by: dose projections or field team readings.

Basis The 50 mRem is based on the corporate philosophy for classification relative to the EPA's protective action guidelines, where 5% of the lower limit shall be the trigger value for a Site Area Emergency. The 250 mRem child thyroid dose is in consideration of the 1:5 ratio established by the PAG's for total whole body dose (TEDE) to (CDE) adult thyroid relationship.

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**CLASSIFICATION OF EMERGENCY CONDITIONS**

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APPENDIX 2

Category J "Radiological Releases"

Classification General Emergency

EAL's Offsite Dose:

4. A valid integrated dose at or beyond the Site Boundary of greater than or equal to 1000 mRem (1 Rem) total whole body dose (TEDE) exists as indicated by: dose projections or field team readings.
- or-
5. A valid integrated dose at or beyond the Site Boundary of greater than or equal to 5000 mRem (5 Rem) (CDE) adult thyroid exists as indicated by: dose projections or field team readings.

Basis The 1000 mRem total whole body (TEDE) and the 5000 mRem (CDE) adult thyroid integrated dose are based on the proposed EPA protective action guidance which indicates that public protective actions are warranted if the dose exceeds 1 rem total whole body (TEDE) or 5 rem (CDE) adult thyroid. This is consistent with the emergency class description for a General Emergency and the Nureg's initiating conditions. Actual meteorology (including forecasts) should be used.

Title

**CLASSIFICATION OF EMERGENCY CONDITIONS**

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**8**

APPENDIX 2

Category K "Contamination/Rad Material Control"

(K)

**Condition  
Applicability**

**All Plant Conditions.**

**Basis**

***This covers any event which leads to a rad material release regardless of plant condition.***

Classification Unusual Event

EAL

Independent Spent fuel Storage Installation

1. 2R/hr at the face of a SF Module

-or-

1R/hr at 1 foot from a damaged Module in the Independent Spent Fuel Storage Installation.

Basis

This event is intended to apply to a degraded plant condition that represents a potential for increased doses to the plant staff. Classification as an Unusual Event is warranted as a precursor to a more serious event.

The 2R/hr value was selected by the Site to provide positive indication of a potential problem within the cask. This is a value which is higher than expected normal and low enough to minimize off-site impact. The 1R/hr reading on a damaged Module indicates the damage may be of sufficient magnitude to not control the release of radioactive material.

Classification Alert

EAL

1. Verified mechanical damage to irradiated fuel which results in a Hi alarm on any of the following refuel floor ARM's:

B-9

C-9

C-10

-or-

2. Any incident involving rad material which results in unexpected increase of in-plant rad levels or airborne contamination by a factor of 1000.

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APPENDIX 2

Category K "Contamination/Rad Material Control"

Basis EAL #1 is intended to meet the Nureg concern for a fuel damage accident which results in a release of radioactivity to the secondary containment. The damage addressed by this EAL is expected from bumping, dropping or otherwise mishandling of a fuel bundle during fuel handling evolutions. In the case of both EAL #1 and #2 not all area radiation monitors are installed for the purposes of providing general habitability information in normal and emergency conditions. Some area monitors are in effect process monitors which provide the health physics staff a quick indication of routine but radical changes in radiological conditions. For example, an area radiation monitor in the vicinity of a radwaste filtration system backwash filter may routinely increase by a factor of several hundred times when the system is in use. This information is important real time information for health physics in providing work permits but is not an indication of an emergency. Thus, this EAL addresses an event of significance to the protection of the public, i.e., failure of the fuel cladding resulting in high RCS activity with high area radiation monitor readings in the vicinity of the RCS, or radiation levels or airborne contamination which indicates a severe degradation in the control of radioactive materials.

Classification Site Area Emergency

EAL Fuel Handling

1. Major damage to spent fuel resulting in uncontrolled release of radioactive material, or uncontrollable decrease in fuel pool water level below top of spent fuel.

Basis This EAL is an escalation of the Alert condition caused by mechanical damage or overheating of multiple fuel bundles. Readings of approximately 10 times the set points of ARMS's B-9, C-9 or C10 is indicative of "Major Damage". This EAL is intended to address irradiated spent fuel requiring water coverage. It is not intended to address spent fuel which is licensed for dry storage or other incidents not related to irradiated fuel storage. The concern addressed by this condition is a release of gap activity from damaged fuel rods or excessive heating of the fuel from decay heat leading to clad perforation. This release is of sufficient magnitude to be detected by the ventilation monitoring system. Since a release is expected from this condition off-site dose assessment should be performed immediately.



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APPENDIX 2

Category L "Control Room Indications"

(L)  
Condition  
Applicability

*Power Operations or All Plant Conditions as Listed in EAL.*

Basis

*Events which apply only to Power Operations can only occur during power operations as worded. Events which apply to all Plant Conditions could occur during any plant condition.*

Classification

Unusual Event

EAL

Loss of Indications

1. Loss of indication or alarm on process monitored systems or effluent streams in Control Room, causing Rx to be shutdown.
- or-
2. Loss of any means of plant assessment, causing Rx to be shutdown.
- or-
3. Valid unplanned loss of all communications capability such that no means of notification to off-site agencies exist as determined by the GSS/ED.

Basis

The loss of assessment capability sufficient to necessitate a plant shutdown due to a tech spec condition or as a prudent measure should be considered sufficient cause for declaration of an Unusual Event since this may be a precursor to a more serious condition as well as a loss of the ability to monitor plant conditions. The process monitored systems addressed in this category include - Offgas System, Turbine Bldg. - Rx. Bldg. Ventilation Systems, RAGEMS System I & II or other radiological monitored release points to the environment. The loss of all communication capability prevent notification of offsite agencies. This loss is meant to include loss of the Meridian phone system, the Dedicated Telephone lines, the direct NJ Bell lines which is in the TSC, CR and OSC, the microwave lines and the radio channels between the site and the outside world. If notification can be accomplished via any of the above systems then conditions of the EAL are not met. On the other hand if conditions are met it will not be possible to make this notification from the site. It would be prudent to send a driver to a offsite location to attempt to complete the notification.

Title

**CLASSIFICATION OF EMERGENCY CONDITIONS**

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**8**

APPENDIX 2

Category L "Control Room Indications"

Classification

Alert

EAL

Loss of Indications

1. Loss of 3 or more Control Room Annunciator Panels during power operations for greater than 5 minutes. No backup alarm information capability available (SAR and PCS).  
-or-
2. Evacuation of Control Room anticipated or required with control of shutdown systems established from local stations within 15 minutes.

Basis

A major failure of a significant portion of indications severely hampers assessment of off-normal conditions. The use of 3 or more panels is intended to provide a point of reference, however, if the condition is less than 3 panels, judgement should be applied to determine the safety significance of the loss considering specific information. The backup Alarm information does not have to be located in the C.R. however it should be readily available. EAL #2 applies to those circumstances where the Control Room is unavailable for plant operation regardless of cause. Plant operations conducted from areas outside the Control Room reduce the operating staff's ability to assess plant conditions and warrants declaration of an Alert.

Classification

Site Area Emergency

EAL

Loss of Indications

1. Loss of 3 or more Control Room Annunciator Panels during power operations for greater than 5 minutes. No backup alarm information capability available (SAR and PCS).  
-and-  
A plant transient condition exist which causes a change in Rx power of more than 10% (APRM).  
-or-
2. Evacuation of Control Room and control of shutdown systems not established from local stations within 15 minutes.

Basis

These EAL's are escalations of the Alert classifications where a plant transient, including conduct of a shutdown, places the operating condition in a less stable state with the additional burden of reduced assessment capabilities.

Title

**CLASSIFICATION OF EMERGENCY CONDITIONS**

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**8**APPENDIX 2

Category M "Electrical Power"

(M)  
Condition  
Applicability

*Power Operations, Hot Shutdown or All Plant Conditions as Listed in EAL.*

Basis

*In Tech Specs 3.7, electrical power requirements are for Power Operations or Hot Shutdown on only. Events 1. and 2. for each level of emergency apply for Power Operation or Hot Shutdown.**Loss of power when Cold Shutdown, Refuel or Defuel will not cause any immediate release problem which is not covered by other EALs.**The reactor temperature will rise with loss of cooling and at 212 F events 1. or 2. will become applicable because Cold Shutdown was not maintained.**If in Cold S/D, Refuel or Defueled condition, the level of emergency is reduced to a more appropriate response as listed for events 3. and 4. If temperatures increase to > 212°F the levels in this category revert back to the higher level of response.*

Classification

Unusual Event

EAL's

Loss of Power

1. Loss of power to 4160V buses 1A and 1B for greater than one hour;
- or-
2. Loss of both diesel generator capabilities for greater than one hour.

Basis

Prolonged loss of AC power reduces required redundancy and potentially degrades the level of safety of the plant by rendering the plant more vulnerable to a complete Loss of AC Power (Station Blackout). The intent of these EAL's is to identify electrical power concerns which are outside the Tech Spec LCO's on Aux. Elect. Power.

Title

CLASSIFICATION OF EMERGENCY CONDITIONS

Revision No.

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APPENDIX 2

Category M "Electrical Power"

Classification

Alert

EAL's

Loss of Power

1. Loss of power to 4160V buses 1A and 1B for greater than 60 seconds but less than 15 minutes and:  
- loss of both diesel generator capabilities;  
-or-
2. Loss of all plant vital DC power; for greater than 60 seconds but less than 15 minutes.

Basis

Loss of backup AC power or vital DC power compromises all plant safety systems requiring electric power including those systems needed for residual heat removal, ECCS and spent fuel heat removal. Intermittent power interruptions lasting less than 15 minutes should be indicative of a potential complete power failure which would escalate this event to the Site Area Emergency.

Classification

Site Area Emergency

EAL's

Loss of Power

1. Loss of power to 4160V busses 1A and 1B exceeds 15 minutes and:  
- loss of both diesel generator capabilities;  
-or-
2. Loss of all plant vital DC power for more than 15 minutes.

Basis

A prolonged loss of power condition will compromise all plant safety systems. The systems necessary for heat removal from the Reactor and containment will be adversely affected leading to core uncovering and loss of containment integrity. This event will escalate to a General Emergency through the loss of fission product barriers.

Title  
**CLASSIFICATION OF EMERGENCY CONDITIONS**

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**8**

APPENDIX 2

Category N "Plant Equipment/Engineered Safety Features or Fire Protection System"

(N)  
Condition  
Applicability

*Power Operations, Hot Shutdown for SAE and GE*

*Power Operations, Hot Shutdown, Cold Shutdown and Refuel for UE and Alert*

Basis

*For the SAE and GE apply when coolant temperature is > 212 F.*

*For the Alert all conditions with fuel in the vessel apply due to the interpretation of NRC Nureg 0654 example 10 for Alert.*

Classification

Unusual Event

EAL

Failure to comply with Tech. Spec. L.C.O.'s

1. Plant is not brought to required operating mode within Technical Specification LCO Action Statement Time.

Basis

This EAL is intended to address the loss of Tech. Spec. required equipment, systems and/or condition. Although exceeding a Tech. Spec. LCO is not an indication that the safety of the plant is challenged when coupled with the inability to meet the LCO Action Statement within the required time does indicate a substantial challenge to plant safety. This condition could lead to the inability to reach and maintain Hot and/or Cold Shutdown and thus would escalate to an ALERT, SAE or GE.

This EAL should be declared as soon as it is determined that the plant cannot be brought to the required mode within the time limit.

Classification

Alert

EAL

Loss of Cold Shutdown Equipment

1. Complete loss of all ability to achieve and maintain cold shutdown.

Title

**CLASSIFICATION OF EMERGENCY CONDITIONS**

Revision No.

**8**APPENDIX 2

## Category N "Plant Equipment/Engineered Safety Features"

**Basis** If the ability is lost at any time to achieve or maintain cold shutdown, an Alert level of emergency is warranted by interpretation of NUREG 0654 example 10. This means that if there is no way to achieve or maintain cold shutdown regardless of the methods or systems used, an Alert is required. Escalation to Site Area Emergency or General Emergency would be via radiological release or fission product barrier categories.

**Classification** Site Area Emergency

**EAL** Loss of Hot Shutdown Equipment

1. Complete loss of any function needed for plant hot shutdown, (e.g. Rx Protection System or CRD System) when hot shutdown is required.

**Basis** This condition refers to the capability to bring the reactor from full power to a controlled hot shutdown condition. To accomplish this operation a minimum of safety related equipment would be necessary. The selected equipment should be capable of maintaining the following parameters within acceptable limits:

- Rx Power (Reactivity Control - CRD/SBLC/RPS)
- Rx Pressure (EMRV's, Iso Cond, Bypass Valves)
- RPV Inventory (Feed/Condensate, CRD, Core Spray)
- Decay Heat Removal (Mn Condenser, Suppression Pool, Ultimate Heat Sink)

It is appropriate to utilize any means available to control the identified parameters, however the control should be a direct result of intended actions. There are numerous alternatives to controlling each of the identified parameters, the intent is that the inability to control any one of these in a hot, pressurized condition can lead to significant consequences.

**Classification** General Emergency

**EAL** Loss of Decay Heat Removal

1. Shutdown occurs, but all decay heat removal capability is lost. Significant cladding failure or fuel melt could occur in 10 hours with subsequent containment failure.

**Basis** This EAL assumes a Rx S/D has occurred however, the lack of heat removal capability such as possibly an extended station blackout condition could lead to fuel clad overheating, energy release to the containment followed by its failure providing a release path to the environment. This condition is expected to be slow in development and thus protective actions adequately addressed.

Title

**CLASSIFICATION OF EMERGENCY CONDITIONS**

Revision No.

**8**

APPENDIX 2

Categories O & P "Natural and Man-made Hazards"

*(O & P)  
Condition  
Applicability*

*All Plant Conditions for UE and Alert*

*Power Operations, Hot Shutdown for SAE*

*Basis*

*Events listed under UE and Alert could affect plant safety and lead to offsite release warranting an UE or Alert level of emergency regardless of plant condition.*

*Events listed under SAE could only warrant an SAE level of emergency if the plant is Hot or Critical. This is because there is a driving force available in the reactor vessel which could cause a more significant potential for offsite rad release under these conditions.*

Classification

Unusual Event

EAL's

Natural Phenomenon

1. Verified earthquake felt in plant.  
-or-
2. Intake canal water level  $\leq$  -2.0 feet as measured by the staff gauge.  
-or-
3. Intake water level 4.5 feet above mean sea level (1.5 feet below intake structure lower deck).  
-or-
4. Sustained high winds greater than 74 mph, as indicated on wind speed recorder.  
-or-
5. The National Weather Service is forecasting sustained winds in excess of 74 mph for the site within 4 hours.  
-or-
6. The Oyster Creek Site is included in a tornado warning.

Man-made Hazards

1. Onsite aircraft crash outside the protected area fence AND NOT impacting permanent plant structures.  
-or-
2. Unanticipated explosion detected near the site OR onsite.  
-or-
3. Near the site or onsite TOXIC GAS, FLAMMABLE GAS or LIQUID release which could affect the habitability required for normal plant operability.  
-or-
4. Turbine rotor component (i.e., blades, wheels, shroud, bearings or other rotating component) failure causing a Rx trip.

APPENDIX 2

## Categories O &amp; P "Natural and Man-made Hazards"

## Natural Phenomenon Cat. O

## Basis

These two categories deal with those destructive hazards which could lead to plant damage. The condition at this level should be considered from an industrial hazards perspective. The problems created by these hazards are expected to create personnel safety concerns. If the extent of damage is sufficient to interrupt plant operations or affect safety systems adversely these conditions will escalate to an Alert or Site Area Emergency class.

EAL #1 is based on the Nureg criteria - earthquake felt in plant, and should be verified by the Lamont-Doherty Geological Observatory Business Hours 914-359-2900, After Hours 914-365-2487, through the Environmental Controls Department if possible. The primary concern is to ensure increased awareness on the part of the plant staff and outside agencies in the event conditions worsen. It is expected that any damage associated with an earthquake will be visible upon inspection. This condition may escalate or terminate based on plant damage assessment.

EAL #2 is based on the Nureg concern for low water level related to the ultimate heat sink. A situation indicative of a potential loss of the suction to the circulating water pumps, emergency service water pumps and service water pumps is sufficient reason to make this declaration. This is not intended to address situations where the travelling screens become clogged and can be remedied immediately. This condition can be caused by strong winds from a westerly direction or by a hurricane in the vicinity of OCNCS. Other causes are possible, however, they are not addressed by the updated FSAR directly. Nureg guidance suggest that the 50 yr. low water level be used for this EAL. 50 yr. data is not available for OCNCS but an engineering assessment of the ESW pump operability as a function of intake level (memo 5310-90-005) identified -2.0' MSL to be the most appropriate level for the U.E. Class.

EAL #3 addresses high water level conditions in the intake canal. The primary concern is a potential loss of plant cooling capability through the loss of pump motors at the intake. At the designated levels the motors are not in immediate jeopardy, however, additional caution and concern should be exercised due to the inability to predict the course of events initiated by environmental changes in weather. This condition is expected to be initiated by hurricane force winds. Unusually high tides are not expected to cause declaration of this condition unless it is accompanied by additional concerns such as high winds, earthquake or other phenomenon.



Title  
**CLASSIFICATION OF EMERGENCY CONDITIONS**

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**8**

APPENDIX 2

Categories O & P "Natural and Man-made Hazards"

Basis (con't)

Natural Phenomenon Cat. O

EAL #4, #5, and #6 address high wind conditions where physical damage to plant property may exist due to the weather. This damage may be caused by direct impact of high winds or as the result of high winds, because of the unknown extent of such damage the EAL intends to increase awareness on the part of the staff.

Man-made Hazards Cat. P

EAL #1 addresses the Nureg concern of aircraft falling from the sky, causing damage to the plant which the extent of may not be fully appreciated without close inspection. The intent is to increase the awareness of the plant staff.

EAL #2 addresses the potential for damage caused by an explosion from any source. The amount of damage must be assessed to determine if this condition should escalate, however, the intent here is to declare the event based on the possibility of increasing damage from an unknown source.

NOTE

Explosions can cause fires, therefore, a review of Category "Q" Fires EAL's should be considered when declaring the appropriate EAL.

As used here, an explosion is a rapid, violent, unconfined combustion, or a catastrophic failure of pressurized equipment, that potentially imparts significant energy to near-by structures and materials. No attempt is made in this EAL to assess the actual magnitude of the damage. The occurrence of the explosion with reports of evidence of damage (e.g., deformation, scorching) is sufficient for declaration.

EAL #3 addresses releases of substances that inhibit normal day-to-day operation of the plant. For instance, gas releases which necessitate evacuation of personnel from a particular area or require the use of respiratory equipment to enter the area because of the release and would not be required otherwise. This condition would escalate to an alert if this release affected operations of the plant.

EAL #4 is intended to meet the Nureg concern for a major plant component failure causing a reactor trip.

Title

**CLASSIFICATION OF EMERGENCY CONDITIONS**

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**8**

APPENDIX 2

Categories O & P "Natural and Man-made Hazards"

Classification

Alert

EAL's

Natural Phenomenon

1. Earthquake affecting plant operations.  
-or-
2. Intake canal water level  $\leq$  -2.5 feet, as measured by the staff gauge.  
-or-
3. Intake water level at the intake structure lower deck.  
-or-
4. Sustained hurricane force winds of greater than 95 mph, as indicated on wind speed recorder.  
-or-
5. Any tornado striking the facility.

Man-made Hazards

1. Aircraft crash OR other missile impact within the protected area OR onto any permanent plant structure.  
-or-
2. Known explosion damage to any permanent plant structure.  
-or-
3. Release of TOXIC or FLAMMABLE GAS into the plant which affects the safe operation of the plant as determined by the Group Shift Supvr/Emergency Director.  
-or-
4. Turbine failure resulting in casing penetration.

Basis

An Operational Basis Earthquake (0.11G) may cause damage to some portions of the site but should not affect the ability of safety functions to operate. Method of detection is validated by a reliable source (e.g. Lamont-Doherty Geological Observatory: (914)359-2900). The OBE is as determined from 10CFR100. The EAL's addressing intake water level both high and low are escalations of a worsening condition cited in the U.E. class. The level's address the Nureg concern for approaching design conditions where the heat sink's effectiveness may be reduced and subsequently lost. EAL #5 is based on the assumption that a tornado striking (touching down) the facility (within the protected area boundary) may have potentially damaged plant structures containing function or systems required for safe shutdown of the plant. If such damage is confirmed, the event may be escalated to a Site Area Emergency.

Title

**CLASSIFICATION OF EMERGENCY CONDITIONS**

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**8**

APPENDIX 2

Categories O & P "Natural and Man-made Hazards"

EAL's (con't)

Man-made Hazards

Category P is intended to address such items as plane or helicopter crash or barge crash that may potentially damage plant structures containing functions and systems required for safe shutdown of the plant. If the incident is confirmed to affect a plant vital area, the event may be escalated to Site Area Emergency.

With regard to explosions, only those explosions of sufficient force to damage permanent structures or equipment should be considered. As used here, an explosion is a rapid, violent, unconfined combustion, or a catastrophic failure of pressurized equipment, that potentially imparts significant energy to near-by structures and materials.

NOTE

Explosions can cause fires, therefore, a review of Category "Q" Fires EAL's should be considered when declaring the appropriate EAL.

The release of toxic gases affecting the safe operation of the plant is intended to address those situations where routine habitability is restricted or routine evolutions are modified to compensate for a "life threatening" atmosphere.

Classification

Site Area Emergency

EAL

Natural Phenomenon

1. Earthquake affecting systems required for shutdown.  
-or-
2. Intake canal water level  $\leq$  -3.0 feet, as measured by the staff gauge.  
-or-
3. Intake water level greater than 8 feet above sea level. (2.0 feet above intake structure lower deck), and not in cold shutdown.  
-or-
4. Sustained wind speed in excess of 100 mph indicated in the Control Room.

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<b>CLASSIFICATION OF EMERGENCY CONDITIONS</b>	<b>8</b>

APPENDIX 2

Categories O & P "Natural and Man-made Hazards"

EAL's (con't)

Man-made Hazards

1. Aircraft crash which affects vital structures by impact OR by fire.  
-or-
2. Explosion OR missile impact which causes severe damage to safe shutdown equipment.  
-or-
3. Entry of TOXIC or FLAMMABLE GAS into vital area which affects the operation of safe shutdown equipment.

Basis

The EAL dealing with earthquakes is based on the FSAR's Safe Shutdown Earthquake (SSE) value of 0.22 G. Seismic events of this magnitude can cause widespread damage to safety functions. These EAL's are escalated events from the Alert Classification and represent significant damage to the plants ability to complete a "safe shutdown". These conditions are of significant concern if the plant is not in cold shutdown. If the plant is in cold shutdown the possibility of radioactive releases from incidental damage is reduced as well as being in a very stable configuration. A further degradation of the events is expected to cause slow escalation of jeopardy to the plant and may be handled with additional assistance relatively easily.

With regard to explosions, only those explosions of sufficient force to damage permanent structures or equipment required for safe shutdown, such that it cannot perform its intended function, should be considered.

As used here, an explosion is a rapid, violent, unconfined combustion, or a catastrophic failure of pressurized equipment, that potentially imparts significant energy to near-by structures and materials.

Title

**CLASSIFICATION OF EMERGENCY CONDITIONS**

Revision No.

**8**APPENDIX 2

## Category Q "Fire"

**(Q)****Condition****All plant conditions****Applicability****Basis*****This applies to all conditions - exceptions are inherent within current wording.***

Classification

Unusual Event

EAL

Fire

1. Valid fire inside the Protected Area which CANNOT be controlled by the fire brigade within 10 minutes from the time of verification.

Basis

This EAL is written to address any fire occurring inside the protected area. The 10 minute time is intended to start when the fire has been verified to be actual by two independent means.

A fire of this magnitude implies additional assistance may be required and the extent of damage will not be readily apparent. Increased awareness and concern should be demonstrated by the staff in preparation for possible degrading conditions.

Fires arising outside the protected area will be handled by off-site authorities and do not pose a significant threat to the plant. If such a threat were to occur the GSS/ED should use his judgement to ensure the safety of the plant and personnel.

NOTE

Fires can be caused by explosions, therefore, a review of Category "P" Man Made Hazards should be considered when declaring the appropriate EAL.

Classification

Alert

EAL

Fire

1. Fire which potentially affects the operability of a Safety System and the Plant is in a transient conditions requiring the use of the System.

Title

**CLASSIFICATION OF EMERGENCY CONDITIONS**

Revision No.

**8**

APPENDIX 2

Category Q "Fire"

Basis

The intent of this EAL is to address those circumstances where the operability of a safety system is questionable due to a fire. This would be evidenced by such things as burn marks on equipment, insulation disfigured or other indications which would warrant closer scrutiny of the components during plant operations requiring the use of such system, subsystem, train or component.

NOTE

Fires can be caused by explosions, therefore, a review of Category "P" Man Made Hazards should be considered when declaring the appropriate EAL.

Classification

Site Area Emergency

EAL

Fire

1. Fire which renders a Safety System completely inoperable and that system is needed to function for accident control.

Basis

This EAL is intended to encompass those situations where a safety system, or subsystem, is unable to perform it's intended function as a direct result of a fire and plant conditions require the use of that systems function. The emphasis is placed on the significance of a fire having such severity to disable a safety system. Additional damage may have been done; however, this will not be immediately evident. As a conservative measure a Site Area Emergency is prudent given that accident mitigation is also taking place.

NOTE

Fires can be caused by explosions, therefore, a review of Category "P" Man Made Hazards should be considered when declaring the appropriate EAL.

Title	Revision No.
<b>CLASSIFICATION OF EMERGENCY CONDITIONS</b>	<b>8</b>

APPENDIX 2

Category R "Security/Sabotage"

(R)  
Condition  
Applicability

*All plant conditions*

Basis

*Events could occur during all plant conditions.*

Classification

Unusual Event, Alert, Site Area and General Emergency

EAL's

U.E. - Security Threat

1. Group Shift Supervisor/Emergency Director determination based on advice from the Site Protection Supervisor that a security threat, attempted entry, or attempted sabotage of the site (owner controlled area) condition exists.

-or-

2. Any attempted act of sabotage which is deemed legitimate in the judgement of the Group Shift Supervisor/Emergency Director, and affects the operation of the plant.

A. - Security Threat

1. Group Shift Supervisor/Emergency Director determination based on advice from the Site Protection Supervisor that the compromise is onsite, but no penetration of the protected area has occurred.

-or-

2. Any act of sabotage which results in an actual or potential substantial degradation of the level of safety of the plant, as judged by the Group Shift Supervisor/Emergency Director.

S.A.E. - Security Threat

1. Group Shift Supervisor/Emergency Director determination based on advice from the Site Protection Supervisor that security of the plant (vital area) is threatened by unauthorized (forcible) entry of the facility (protected area).

-or-

2. Any act of sabotage which results in actual or likely major failures of plant functions needed for the protection of the public, as judged by the Group Shift Supervisor/Emergency Director.

G.E. Security Threat

1. Group Shift Supervisor/Emergency Director determination based on advice from the Site Protection Supervisor that the loss of physical security control of the plant (vital areas) has occurred.

-or-

2. Any act of sabotage which results in imminent significant cladding failure or fuel melting with the potential for loss of containment integrity or the potential for the release of significant amounts of radioactivity in a short time, as judged by the Group Shift Supervisor/Emergency Director.

Title

**CLASSIFICATION OF EMERGENCY CONDITIONS**

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**8**

APPENDIX 2

Category R "Security/Sabotage"

Basis

These EAL's are intended to be gradient conditions of threats directed at OCNCS. The U.E. class deals with threats or conditions limited to outside the owner controlled area or vandalism of the plant which results in off-normal component condition (i.e., valve mispositioned, setpoint changes) where there is no indication of major damage (i.e., wiring cut, valves or piping cut, or disassembled).

The Alert class is an escalation of the conditions for the U.E. This level deals with situations between the Owner Controlled Area and the Protected Area or acts of vandalism which causes a major plant component to malfunction or otherwise not perform its intended function in the expected manner.

The S.A.E. class is intended to address entry into the Protected Area by a hostile force. Vital Areas are threatened in this circumstance. Acts of vandalism consistent with this classification would consist of the loss of a safety system function (i.e., complete loss of all Core Spray, or Containment Spray).

The General Emergency class addresses entry into Vital Areas. Damage to major plant equipment which indicates the ability to ensure adequate core cooling and containment integrity may not be possible due to acts by a hostile force should be considered sufficient reason for a G.E. declaration.



Title

**CLASSIFICATION OF EMERGENCY CONDITIONS**

Revision No.

**8**

APPENDIX 2

Category S "Fission Product Barriers"

(S)  
Condition  
Applicability

*Power Operations, Hot Shutdown*

Basis

*The definitions of the other conditions mean that 2 of the 3 barriers are not required to be intact. The only barrier required to be intact for these conditions is the cladding. (i.e. RCS is vented and Primary containment is not required.)*

*Regardless of the plant condition, consideration should be given in declaring a General Emergency for a loss of cladding accident which has Rad level increases as specified in EAL category J (Radiological Releases). If dose monitoring equipment or dose assessment capabilities are unavailable and cladding has failed with no RCS or Containment a General Emergency is warranted during any plant condition.*

Classification

General Emergency

EAL

Loss of 2 of 3 fission product barrier's with the potential loss of the third i.e. loss of coolant accident, failure of ECCS, Core Melt Probable and Loss of containment imminent.

Basis

The fission product barriers addressed by this EAL are:

- Fuel Cladding
- Rx Coolant System Boundary
- Primary Containment

The concern is that a significant radioactive release to the environment is imminent during unstable plant conditions. The intent is to make the G.E. declaration because of plant conditions which are leading to a release of known or unknown magnitude. Releases during accident conditions are expected to require protective actions for the general public. Declaration of this class prior to such releases improves the effectiveness and completeness of appropriate protective actions. This EAL is not dependent on a dose assessment or projection, it is intended to be applied based on the status of fission product barriers and the potential for a release to the environment with a degraded core. This EAL should not be applied during situations where primary containment is not enforced unless "a degraded core condition" which could lead to a significant release is of primary concern. Exhibit 2 provides guidelines for assessing fission product barriers status. This is not all inclusive and does not address such things as an "interfacing LOCA" where the containment is effectively bypassed, however when assessing each barrier consideration should be given to the barriers ability to perform its intended function under the circumstances presented.

Title  
**CLASSIFICATION OF EMERGENCY CONDITIONS**

Revision No.  
**8**

APPENDIX 2

Category T "Emergency Director's Judgement"

(T)  
**Condition  
Applicability**

**All Plant Conditions.**

**Basis**

***Judgment for events not covered specifically in the EALs could apply to any plant condition.***

**Classification**

**Unusual Event, Alert, Site Area Emergency**

**EAL's**

**Unusual Event**

Whenever plant conditions are in progress or have occurred which may indicate a potential degradation of the level of safety of the plant, as judged by the Shift Supervisor/Emergency Director.

**NOTE**

In exercising the judgement as to the need for declaring an Unusual Event, uncertainty concerning the Safety Status of the plant, the length of time the uncertainty exists and the prospects for resolution of ambiguities in a reasonable time period is sufficient basis for declaring an Unusual Event.

**Alert**

Whenever plant conditions are in progress or have occurred which may involve an actual or potential substantial degradation of the level of safety of the plant, as judged by the Shift Supervisor/Emergency Director.

**NOTE**

In exercising the judgement as to the need for declaring an Alert, uncertainty concerning the safety status of the plant, the length of time the uncertainty exists the prospects for resolution of ambiguities beyond a reasonable time period and the potential of the level of safety of the plant is sufficient basis for declaring an Alert.

**Site Area Emergency**

Whenever plant conditions are in progress or have occurred which may involve actual or likely major failures of plant functions needed for the protection of the public, as judged by the Shift Supervisor/Emergency Director.

Title

**CLASSIFICATION OF EMERGENCY CONDITIONS**

Revision No.

**8**

APPENDIX 2

Category T "Emergency Director's Judgement"

NOTE

In exercising the judgement as to the need for declaring a Site Area Emergency, uncertainty concerning the status of the plant functions needed for protection of the public, the length of time the uncertainty exists, the prospects for resolution of ambiguities beyond a reasonable time and the potential degradation of the plant functions needed for protection of the public is sufficient basis for declaring a Site Area Emergency.

Basis

These EAL's are intended to address unanticipated conditions not addressed explicitly elsewhere but that warrant declaration of an emergency class because conditions exist which are believed by the Emergency Director to fall under one of the above classes. The Unusual Event level implies that Plant Safety is jeopardized, however, operation may continue with heightened awareness (e.g., outside Tech. Spec. LCO's).

The Alert level implies that Plant Safety has been significantly impaired, (e.g., Operations beyond FSAR design consideration).

The Site Area Emergency level concern is for the loss of the ability to ensure the protection of the public due to a lack of confidence in plant functions (i.e., containment integrity, adequate Core Cooling, other Fission Product barriers).

There is no General Emergency EAL for this category since the required actions directly impact the public. This is to ensure that if declared there is no doubt a G.E. condition exist (i.e., core melt sequence with a loss of containment integrity imminent).

Title

**CLASSIFICATION OF EMERGENCY CONDITIONS**

Revision No.

**8**EXHIBIT 1

## Cross-Reference Index

Unusual EventsNureg-0654  
Initiating ConditionsEPIP-OC-.01  
Appendix 1

1.	A-1, E-1
2.	J-1, J-2, J-3
3.a	I-1, I-3
3.b	I-2, I-4
3.c	N/A BWR
4.	*
5.	A-1, D-1, E-1, H-1, H-2
6.	D-1, E-1, F-1, H-1
7.	M-1, M-2
8.	N-1 *
9.	N-1 *
10.	Q-1
11.	L-1, L-2, L-3 *
12.	R-1, R-2
13.	O-1 through 5
14.	P-1 through 5
15.	T
16.	*
17.	N/A BWR

\* Coverage deleted/changed based on NRC's Branch Position of Acceptable Deviations to Appendix 1 to NUREG-0654/FEMA-REP-1.

Title

**CLASSIFICATION OF EMERGENCY CONDITIONS**

Revision No.

**8**EXHIBIT 1  
(continued)

## Cross-Reference Index

<u>Alert</u>	
Nureg-0654 Initiating Conditions	EPIP-OC-.01 Appendix 1
1a.	I-1
1b.	I-2
1c.	N/A BWR
2.	N/A BWR
3.	N/A BWR
4.	H-1a, H-1b
5.	H-1c, A-1, H-2
6.	K-2
7.	M-1
8.	M-2
9.	I-1, I-2
10.	N-1
11.	N-1, C-1
12.	K-1
13.	Q-1
14.	L-1
15.	J-1 through 5
16.	R-1 & 2
17.	O-1 through 5
18.	P-1 through 4
19.	T
20.	L-2

Title

**CLASSIFICATION OF EMERGENCY CONDITIONS**

Revision No.

**8**EXHIBIT 1  
(continued)

## Cross-Reference Index

Site Area Emergency

Nureg-0654 Initiating Conditions	EPIP-OC-.01 Appendix 1
1.	A-1, A-2
2.	I-1 & 2
3.	N/A BWR
4.	H-1a & b
5.	N/A BWR
6.	M-1
7.	M-2
8.	N-1
9.	C-1, N-1
10.	K-1
11.	Q-1
12.	L-1
13a, b, c	J-1 & 2
14.	R-1 & 2
15.	O-1 through 4
16.	P-1 through 3
17.	T
18.	L-2

EXHIBIT 1  
(continued)

Cross-Reference Index

General Emergency

Nureg-0654  
Initiating Conditions

EPIP-OC-.01  
Appendix 1

1a.	J-1 & 2
1b.	A-1, E-1
2.	A-1, E-1, S-1
3.	R-1 & 2
4.	A-1, E-1, S-1
5.	N/A BWR
6.	A-1, E-1, N-1, S-1
7.	A-1, E-1, N-1, S-1

Title

**CLASSIFICATION OF EMERGENCY CONDITIONS**

Revision No.

**8**
EXHIBIT 2
Fission Product Barriers Guidelines

Cat. "S" - Fission Product Barriers Guidelines - This table is not all inclusive, it is provided as possible indications of boundary breaches.

EAL - Loss of 2 of 3 Fission Product Barriers with the Potential Loss of the third Barrier. (For example, loss of Reactor Coolant System Boundary, Fuel Clad failure and high potential for loss of Containment.)

<u>Boundary</u>	<u>Potential Loss</u>	<u>Barrier Loss</u>
Rx Coolant System	1. Drywell Pressure >3 psig due to suspected L.O.C.A.	1. Confirmed leakage from Rx. Coolant System >50 gpm.
Fuel Clad	1. Main Steamline Radiation monitor High-High Alarm. 2. RPV Level $\leq$ -30" TAF. 3. Rx. Power Oscillations	1. Coolant activity exceeds 300 uci/gm dose equivalent iodine. * SEE TABLE BELOW 2. Off-gas discharge indicates >10,000 mR/Hr.
Primary Containment	1. D.W. Bulk temperature cannot be maintained below 281°F. 2. Boron injection required IAW EMG-3200.01 RPV Control. 3. Containment H2 concentration $\geq$ 6% and D.W. or Torus O2 concentration >5%.	1. Unexplained rapid decrease in D.W. pressure after initial increase due to L.O.C.A. 2. Unexplained increase in Area Radiation monitors outside Primary Containment in more than one area with known or suspected leakage from the Pri. Containment. 3. Venting of the Containment is required for Accident Control.

**FUEL CLAD DAMAGE CONDITIONS FOR COOLANT ACTIVITY EXCEEDING 300 UCI/GM DOSE EQUIVALENT IODINE**

\*

Conditions	CHARMS	Stack	Rad Engineering Calculation Number
LOCA Reactor Building	N/A	0.13 $\mu$ Ci/cm3	2820-99-012
LOCA Drywell	440 R/hr	N/A	2820-99-017
No LOCA	63 R/hr	N/A	96-004



**OYSTER CREEK  
EMERGENCY PREPAREDNESS  
IMPLEMENTING PROCEDURE**Number  
**EPIP-OC-.02**

Title

**DIRECTION OF EMERGENCY RESPONSE/  
EMERGENCY CONTROL CENTER (ECC)**

Revision No.

**25**

Applicability/Scope

Applies to work at Oyster Creek Division & Support  
Divisions

Responsible Office

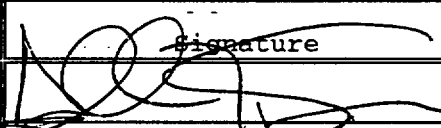
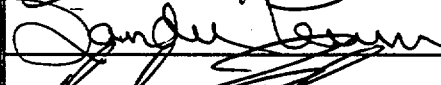

Emergency Prep

This document is within QA plan scope  
Safety Reviews RequiredX Yes \_\_\_ No  
X Yes \_\_\_ No

Effective Date

Date of Sale

Prior Revision 24 incorporated the  
following Temporary Changes:N/AThis Revision 25 incorporates the  
following Temporary Changes:N/AList of Pages (All pages rev'd to Rev. 25)1.0 to 7.0  
E1-1 to E1-17  
E2-1 to E2-3  
E3-1  
E4-1 to E4-3  
E5-1  
E6-1 to E6-4  
E7-1 to E7-2  
E8-1 to E8-3  
E9-1 to E9-2  
E10-1  
E11-1  
E12-1  
E13-1  
E14-1  
E15-1**NON-CONTROLLED  
This Document Will Not  
Be Kept Up To Date  
DCC Oyster Creek**

	Signature	Concurring Organization Element	Date
Originator		Emergency Planner --	1/5/00
Concurred By		Director Plant Operations	1-5-00
Approved By		Emergency Preparedness Mgr, O.C.	1/11/00

Title  
**DIRECTION OF EMERGENCY RESPONSE/  
EMERGENCY CONTROL CENTER (ECC)**Revision No.  
**25**DOCUMENT HISTORY

REV.	DATE	ORIGINATOR	SUMMARY OF CHANGE
13	10/94	A. Smith	Improve guidance for authorizing deviations from procedures, operating limits, Tech. Spec's, License, and License conditions. Added Exhibit 6.  Also changed reference to EPIP-OC-.23 to EPIP-Com-.44.  Main Gate Evacuation Regarding Accountability.
14	12/94	R. Finicle	Add guidance on media access to the site during declared emergencies.
15	02/95	A. Smith	Add Security Events to media access to get approval from local Law Enforcement and Security. EPIP-COM-45 to EPIP-OC-.29
16	06/95	A. Smith	Note for North Gate Applicability, Title changes of Buildings and General Typo's.
17	12/95	T. Blount	Correct typo's. Also modify Deviation documentation.
18	05/96	Bontempo	Revise Par Logic Diagram to address March 15, 1996 NRC/GPUN meeting. Delete Exhibit 1b pg. E1-16 through E1-19. Add Steps 2.1.1 through 2.1.3 of Exh. 1b Par Guide.
19	05/97	T. Blount	AEOF Removed from E-Plan 1000-PLN-1300.01 in Rev. 11. On-shift Team dispatch and mustering activity described.
20	10/97	A. Smith	Clarify nomenclature for fax machine in control room.
21	05/98	P. Hays	Change terminology from "Tech. Functions" to "Engineering", reflects elimination of Radwaste Supervisor, adds OCAB into considerations of on-site protective actions and clarifies transfer of authority for off-site notifications.
22	02/99	A. Smith	EPIP-COM-.44 and EPIP-COM-.45 have been changed to Oyster Creek site specific procedures and the new numbers are EPIP-OC-.44 and EPIP-OC-.45 (reference EP changes 98-021 & 98-022)
23	05/99	A. Smith	Clarify off-site notification transfer between ECC & EOF. Incorporate new public information process.
24	10/99	A. Smith	Clarify computer for ESDS usage.
25	DOS	A. Smith	Change references from GPU or GPUN or OCNCS.

Title

**DIRECTION OF EMERGENCY RESPONSE/  
EMERGENCY CONTROL CENTER (ECC)**

Revision No.

**25**

**1.0** PURPOSE

This procedure describes the actions to be taken by the Onshift Emergency Director (ED)/Site Shift Manager after an emergency is declared.

This procedure also describes the staffing, activation and operation of the Emergency Control Center (ECC).

**2.0** APPLICABILITY/SCOPE

2.1 This procedure applies to the ED/GSS(SSM) and describes actions that must be taken by the ED/GSS(SSM) or his staff to implement the OCNCS Emergency Plan.

2.2 This procedure shall apply to all personnel assigned to the ECC during all levels of emergency classifications.

**3.0** DEFINITIONS

3.1 Site Shift Manager - Is the Group Shift Supervisor on shift, responsible for the overall site operation as it pertains to the operation of the plant.

**4.0** RESPONSIBILITIES

4.1 The ED/GSS(SSM) will perform or delegate the completion of the ED/GSS(SSM) checklist (Exhibit 1).

4.2 The Operation Coordinator/GOS will assume responsibilities outlined in Exhibit 3 (Operations Coordinator Responsibilities).

4.3 The Shift Technical Advisor will advise the ED/GSS(SSM) on activities that impact the safe operation of the plant.

4.4 The CRO or person assigned as the on shift communicator will perform duties as specified in "Emergency Notification" Procedure EPIP-OC-.03.

4.5 The Initial Response Organization ECC communications coordinator and ECC communicators will perform duties as specified in accordance with this procedure.

Title  
**DIRECTION OF EMERGENCY RESPONSE/  
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5.0 PROCEDURE

5.1 The following actions shall be performed by the on shift crew upon recognition of in plant or site conditions that have exceeded Emergency Action Levels (EALs) specified in EPIP-OC-.01.

5.1.1 GSS(SSM) will assume ED responsibilities (Exhibit 2) and complete actions listed on the ED/GSS(SSM) checklist (Exhibit 1).

5.1.2 GOS will assume Operations Coordinator responsibilities (Exhibit 3).

5.1.3 CRO or person assigned by the GSS(SSM) will perform actions of "Communications Coordinator" as specified in EPIP-OC-.03.

5.1.4 Emergency responders on shift shall be directed to respond to events by the ED(GSS) from the ECC. If the conditions of the event indicate shift personnel should muster at a designated location, (to protect personnel) the ED shall direct them to an appropriate area. This area/location may be:

- 1) The EO room next the Control Room
- 2) The OSC
- 3) A suitable location selected by the GSS/ED.

When the OSC is Staffed by the IREO (typically 1 Hr from the Alert), the on-shift responders should be directed to report to that location.

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**DIRECTION OF EMERGENCY RESPONSE/  
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- 5.1.5 Team(s) dispatched prior to Activation of the OSC by the IREO should be "tracked" using the information similar to Exhibit 1C, Checklist. The OSC Coordinator on-shift, normally the Shift Maintenance Foreman or the Radwaste Supervisor (who's duties have been assumed by the In-plant Group Operating Supervisor) will perform the briefing/tracking of teams. If this individual is unable to perform this activity due to responding to the event, the ED/GSS will perform or designate a temporary replacement as needed to support the Team dispatch function.
- 5.2 If the Initial Response Organization (IRO) members have reported to the ECC, the following actions shall be performed.
- 5.2.1 GSS(SSM) will complete the "ED Turnover Checklist" (Exhibit 1a) and turnover ED responsibilities to the on call ED. After this turnover the GSS(SSM) will continue to fill out applicable portions of the "ED/GSS(SSM) Checklist" (Exhibit 1).
- 5.2.2 GOS or GSS(SSM) will brief the on call Operations Coordinator with the "ED Turnover Checklist". The Operations Coordinator will then establish communications and assume responsibilities as outlined in Exhibit 3.
- 5.2.3 CRO or person performing Communication Coordinator duties will brief the on call Communication Coordinator on the status of communications and turnover responsibilities as outlined in EPIP-OC-.03.
- 5.2.4 The on call ECC Communicators will assume communicator duties as listed in Exhibit 8, 9 and 10.
- 5.3 A description of evacuation preplanning for Alternate Emergency Response Facilities is provided in Exhibit 5.

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**6.0 REFERENCES**

- 6.1 2000-PLN-1300.01, OCNGS Emergency Plan.
- 6.2 Procedure 126, "Procedure for Notification of Station Events"
- 6.3 EPA 400-R-92-001, October 1991, Manual of Protective Action Guides and Protective Actions for Nuclear Incidents.
- 6.4 EPIP-OC.26, The Technical Support Center.
- 6.5 Evacuation Time Estimates Oyster Creek Nuclear Generating Station, Dresdner, Robin & Associates December 1991.
- 6.6 O C File No. 96003, Letter 6730-96-3167 dated 04/24/96 Summary of March 15, 1996 Emergency Preparedness Meeting with the NRC.
- 6.7 1820-IMP-1720.01, Emergency Public Information Implementing Procedure.

**7.0 EXHIBITS**

- 7.1 Exhibit 1, Emergency Director/GSS(SSM) Checklist
- 7.2 Exhibit 1a, ED Turnover Checklist
- 7.3 Exhibit 1b, Protective Action Recommendation Guide
- 7.4 Exhibit 1c, "Team Dispatch From CR" Checklist
- 7.5 Exhibit 2, Emergency Director Responsibilities
- 7.6 Exhibit 3, Operations Coordinator Responsibilities
- 7.7 Exhibit 4, Press Release Approval Guidance
- 7.8 Exhibit 5, Alternate Emergency Response Facilities
- 7.9 Exhibit 6, Emergency Director Authorization for Deviations from Requirements
- 7.10 Exhibit 7, Site Access Policy For Media During Emergencies
- 7.11 Exhibit 8, ECC Communications Coordinator Checklist
- 7.12 Exhibit 9, ECC Communicator - Engineering Line

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- 7.13 Exhibit 9A, Equipment Status Display System
- 7.14 Exhibit 10, ECC Communicator Plant Status Update
- 7.15 Exhibit 11, Emergency Shift Schedule
- 7.16 Exhibit 12, HIFAX Log (Example)
- 7.17 Exhibit 13, Communicator Log (Example)
- 7.18 Exhibit 14, Emergency Message Form (Example)
- 7.19 Exhibit 15, Media Access Briefing Form

Title

**DIRECTION OF EMERGENCY RESPONSE/  
EMERGENCY CONTROL CENTER (ECC)**

Revision No.

**25**EMERGENCY DIRECTOR/GSS (SSM) CHECKLISTEXHIBIT 1"UNUSUAL EVENT"Initial When Completed

1.0 Activate the ECC by performing the following (classification):

- \_\_\_\_\_ 1.1 EAL: \_\_\_\_\_
- \_\_\_\_\_ 1.2 Announce self as ED. Announce emergency classification and give brief description/reason for declaration: \_\_\_\_\_
- \_\_\_\_\_ 1.3 Remain cognizant of plant conditions/EALs to ensure appropriate emergency classification is declared.

## 2.0 Notifications

- \_\_\_\_\_ 2.1 Direct that offsite agencies are notified IAW EPIP-OC-.03.
- \_\_\_\_\_ 2.1.1 N.J. State Police (within 15 minutes).
- \_\_\_\_\_ 2.1.2 NRC (within 1 hour).
- \_\_\_\_\_ 2.1.3 Brief BNE when BNE representative calls Control Room (should be within 30 minutes of declaration - if no return call - contact NJSP and inform them). Conduct periodic briefings as requested and time permits.
- \_\_\_\_\_ 2.2 Direct that plant page announcements and management notifications be made IAW EPIP-OC-.03.
- \_\_\_\_\_ 2.3 Direct Security Shift Supervisor to implement EPIP-OC-.40 (Security actions). When time permits, discuss whether sabotage was involved.

## 3.0 Protective Actions

- \_\_\_\_\_ 3.1 Consider hazards to site personnel (see Exhibit 1b).

4.0 As necessary, review Exhibit 2, ED Responsibilities.

5.0 If media access to the site is requested, refer to Exhibit 7, "Site Access Policy For Media During Emergencies".



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**DIRECTION OF EMERGENCY RESPONSE/  
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**25**EMERGENCY DIRECTOR/GSS(SSM) CHECKLISTEXHIBIT 1 (CONT'D)"UNUSUAL EVENT"

- 6.0 All deviations from procedures, equipment operating limits, Technical Specifications, License, and License Conditions will be authorized and documented using the guidance in Exhibit 6.
- 7.0 Review and approval of press releases should be accomplished in a timely manner. The guidance in Exhibit 4 may be used to facilitate the review.

NOTE

The IREO and the TSC are not normally activated during an Unusual Event. Step 8.0 below applies only if the IREO ED and/or TSC is activated.

## 8.0 ED Briefing/Turnover

8.1 Contact and brief Initial Response ED, utilize office, home, or pager phone numbers as necessary.

8.2 At direction of initial response ED conduct a turnover to him (or in his absence, ESD) using Exhibit 1a. This turnover should be complete prior to the IREO ED assuming the position. The assumption of the ED position by the IREO ED should be the final step in activating the TSC.

## 9.0 Termination/Recovery (If not turned over to Initial Response ED). If plant is in a stable configuration and NO emergency action level criteria apply:

9.1 Direct Termination Page Announcement.

9.2 Direct Termination Notifications Offsite.

9.3 Conduct close-out briefing with BNE.

9.4 Issue a press release.

Title

**DIRECTION OF EMERGENCY RESPONSE/  
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Revision No.

**25**EMERGENCY DIRECTOR/GSS(SSM) CHECKLISTEXHIBIT 1 (CONT'D)**"ALERT"**Initial When Completed

1.0 If not already activated, activate the ECC and classify or reclassify the event by performing the following:

\_\_\_\_\_ 1.1 EAL: \_\_\_\_\_

\_\_\_\_\_ 1.2 If not relieved by Initial Response ED, announce self as ED, announce emergency classification, and give brief description/reason for declaration: \_\_\_\_\_

1.3 Remain cognizant of plant conditions/EALs to ensure appropriate emergency classification is declared.

2.0 Notifications

\_\_\_\_\_ 2.1 Direct that offsite agencies are notified IAW EPIP-OC-.03.

\_\_\_\_\_ 2.1.1 N.J. State Police (within 15 minutes).

\_\_\_\_\_ 2.1.2 NRC (within 1 hour).

\_\_\_\_\_ 2.1.3 Brief BNE when BNE representative calls Control Room (should be within 30 minutes of initial declaration - if no return call - contact NJSP and inform them). Conduct periodic briefings as requested and time permits.

\_\_\_\_\_ 2.2 Direct that plant page announcements and management notifications be made IAW EPIP-OC-.03.

\_\_\_\_\_ 2.3 Direct Security Shift Supervisor to implement EPIP-OC-.40 (Security actions) and EPIP-OC-.41 (activation of ERO). (Should be within 15 minutes of initial declaration).

\_\_\_\_\_ 2.3.1 When time permits discuss whether sabotage was involved.

\_\_\_\_\_ 2.4 If necessary call out a licensed or certified individual, preferably a GOS or GSS(SSM), to support the OSC.

3.0 Protective Actions

\_\_\_\_\_ 3.1 Consider hazards to site personnel (see Exhibit 1b).

4.0 As necessary, review Exhibit 2, ED Responsibilities.

5.0 If media access to the site is requested, refer to Exhibit 7, "Site Access Policy For Media During Emergencies".

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**DIRECTION OF EMERGENCY RESPONSE/  
EMERGENCY CONTROL CENTER (ECC)**

Revision No.

**25**EMERGENCY DIRECTOR GSS(SSM) CHECKLISTEXHIBIT 1 (CONT'D)**"ALERT"**

- 6.0 All deviations from procedures, equipment operating limits, Technical Specifications, License, and License Conditions will be authorized and documented using the guidance in Exhibit 6.
- 7.0 Review and approval of press releases should be accomplished in a timely manner. The guidance in Exhibit 4 may be used to facilitate the review.
- 8.0 At direction of Initial Response ED conduct a turnover to him (or in his absence, ESD) using Exhibit 1a. This turnover should be complete prior to the IREO ED assuming the position. The assumption of the ED position by the IREO ED should be the final step in activating the TSC.
- 9.0 EO's shall be directed from the ECC until the OSC is operational. Exhibit 1c should be used to track EO teams. EO's may be directed by the ECC until a licensed operator is available at the OSC to direct EO's. At that time, EO dispatch may be turned over to the OSC.
- 10.0 Termination/Recovery (If not turned over to Initial Response ED or ESD)
- 10.1 Implement EPIP-OC-.45.
- 10.2 Conduct close-out briefing with BNE.

Title

**DIRECTION OF EMERGENCY RESPONSE/  
EMERGENCY CONTROL CENTER (ECC)**

Revision No.

**25**EMERGENCY DIRECTOR GSS(SSM) CHECKLISTEXHIBIT 1 (CONT'D)"SITE AREA EMERGENCY"Initial When Completed

1.0 If not already activated, activate ECC and classify or reclassify event by performing the following:

\_\_\_\_\_ 1.1 EAL: \_\_\_\_\_

\_\_\_\_\_ 1.2 If not relieved by Initial Response ED, announce self as ED, announce emergency classification, and give brief description/reason for declaration: \_\_\_\_\_

\_\_\_\_\_ 1.3 Remain cognizant of plant conditions/EALs to ensure appropriate emergency classification is declared.

2.0 Notifications

\_\_\_\_\_ 2.1 If not turned over to the EOF, direct that offsite agencies be notified IAW EPIP-OC-.03.

\_\_\_\_\_ 2.1.1 N.J. State Police (within 15 minutes).

\_\_\_\_\_ 2.1.2 NRC (within 1 hour).

\_\_\_\_\_ 2.1.3 Brief BNE when BNE Representative calls Control Room (should be within 30 minutes of initial declaration - if no return call - contact NJSP and inform them). Conduct periodic briefings as requested and time permits.

\_\_\_\_\_ 2.2 Direct that plant page announcements and management notifications are made IAW EPIP-OC-.03.

\_\_\_\_\_ 2.3 If not already done, direct Security Shift Supervisor to implement EPIP-OC-.40 (Security Actions) and EPIP-OC-.41 (Activation of ERO). (Should be within 15 minutes of initial declaration).

\_\_\_\_\_ 2.3.1 When time permits discuss whether sabotage was involved.

\_\_\_\_\_ 2.4 If necessary call out a licensed or certified individual, preferably a GOS or GSS(SSM), to support the OSC.

3.0 Protective Actions

\_\_\_\_\_ 3.1 Consider hazards to site personnel (see Exhibit 1b).

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**DIRECTION OF EMERGENCY RESPONSE/  
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**25**EMERGENCY DIRECTOR GSS/(SSM) CHECKLISTEXHIBIT 1 (CONT'D)"SITE AREA EMERGENCY"

- 3.2 If not relieved by Initial Response ED, direct site accountability.

- 3.2.1 Provide route to EAA. RAC/GRCS may be asked for input.

NOTE

Essential personnel within the protected area should be accounted for within 30 minutes. Full accountability should be achieved within 60 minutes. If not, search and rescue efforts should commence.

- 3.3 ECC support of site accountability

NOTE

References to the North Gate are only applicable when the gate is open during outages.

- 3.3.1 In the event of Security Computer failure assign an individual to collect accountability cards in facility or slot numbers from those outside the ECC. (Ensure Radwaste and all other Operations personnel are included)

- 3.3.2 Direct individual to call the Main Gate Security with badge slot numbers within 10 minutes of initial declaration of accountability

Main Gate - dial code 80 on the Security Line or 4950 from Site Phone

- 3.3.3 Accountability notification completed for facility.

- 3.4 Review PAR Logic Diagram (Exhibit 1b)

- 3.5 Consider the need to continue radwaste operations and direct Radwaste Operators appropriately. Inform Initial Response ED, when available, of disposition.

- 4.0 As necessary, review Exhibit 2, ED Responsibilities.

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EMERGENCY DIRECTOR GSS/(SSM) CHECKLIST

EXHIBIT 1 (CONT'D)

"SITE AREA EMERGENCY"

- 5.0 If media access to the site is requested, refer to Exhibit 7, "Site Access Policy For Media During Emergencies".
- 6.0 All deviations from procedures, equipment operating limits, Technical Specifications, License, and License Conditions will be authorized and documented using the guidance in Exhibit 6.
- 7.0 Review and approval of press releases should be accomplished in a timely manner. The guidance in Exhibit 4 may be used to facilitate the review.
- 8.0 ED Turnover (If not previously completed).
- \_\_\_\_\_ 8.1 At direction of Initial Response ED conduct a turnover to him (or in his absence, ESD) using Exhibit 1a. This turnover should be complete prior to the IREO ED assuming the position. The assumption of the ED position by the IREO ED should be the final step in activating the TSC.
- 9.0 EO's shall be directed from the ECC until the OSC is operational. Exhibit 1c should be used to track EO teams. EO's may be directed by the ECC until a licensed operator is available at the OSC to direct EO's. At that time, EO dispatch may be turned over to the OSC.
- 10.0 Termination/Recovery (If not turned over to Initial Response ED/ESD).
- \_\_\_\_\_ 10.1 Implement EPIP-OC-.45.
- \_\_\_\_\_ 10.2 Conduct close-out briefing with BNE.

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**25****EMERGENCY DIRECTOR CHECKLIST  
EXHIBIT 1 (CONT'D)  
"GENERAL EMERGENCY"**Initial When Completed

1.0 If not already activated, activate the ECC and classify or reclassify the event by performing the following:

- \_\_\_\_\_ 1.1 EAL: \_\_\_\_\_
- \_\_\_\_\_ 1.2 If not relieved by Initial Response ED, announce self as ED, announce emergency classification, and give brief description/reason for declaration: \_\_\_\_\_
- \_\_\_\_\_ 1.3 Remain cognizant of plant conditions/EALs to ensure appropriate emergency classification is declared.

## 2.0 Notifications

- \_\_\_\_\_ 2.1 If not turned over to the EOF, direct that offsite agencies be notified IAW EPIP-OC-.03.
- \_\_\_\_\_ 2.1.1 N.J. State Police, Ocean County, Ocean Township, and Lacey Township (within 15 minutes).
- \_\_\_\_\_ 2.1.2 NRC (within 1 hour).
- \_\_\_\_\_ 2.1.3 Brief BNE when BNE representative calls Control Room (should be within 30 minutes of initial declaration - if no return call - contact NJSP and inform them). Conduct periodic briefings as requested and time permits.
- \_\_\_\_\_ 2.2 Direct that plant page announcements and management notifications are made IAW EPIP-OC-.03.
- \_\_\_\_\_ 2.3 If not already done, direct Security Shift Supervisor to implement EPIP-OC-.40 (Security Actions) and EPIP-OC-.41 (ERO Activation). (Should be within 15 minutes of initial declaration).
- \_\_\_\_\_ 2.3.1 When time permits discuss whether sabotage was involved.
- \_\_\_\_\_ 2.4 If necessary call out a licensed or certified individual, preferably a GOS or GSS(SSM), to support the OSC.

## 3.0 Protective Actions and Recommendations

- \_\_\_\_\_ 3.1 If turnover to Initial Response ED or ESD is not complete, provide NJOEM (NJSP) with PAR within approximately 15 minutes of declaration (see Exhibit 1b, PAR Logic Diagram).
- \_\_\_\_\_ 3.1.1 Discuss with BNE representative as soon as time permits.

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**DIRECTION OF EMERGENCY RESPONSE/  
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**25**EMERGENCY DIRECTOR CHECKLISTEXHIBIT 1 (CONT'D)"GENERAL EMERGENCY"

- \_\_\_\_\_ 3.2 Direct page announcement for site evacuation of nonessential personnel IAW EPIP-OC-.03. If turnover to ED is complete, obtain his concurrence with announcement.
- \_\_\_\_\_ 3.2.1 Provide Security with selected assembly area and route.  
[ ] Forked River Bld. 14 - or [ ] Berkeley Customer Operations Center.
- \_\_\_\_\_ 3.3 Consider need to continue Radwaste operations and direct Radwaste Operators appropriately. Inform Initial Response ED, when available, of disposition.
- 4.0 As necessary, review Exhibit 2, ED Responsibility.
- 5.0 If media access to the site is requested, refer to Exhibit 7, "Site Access Policy For Media During Emergencies".
- 6.0 All deviations from procedures, equipment operating limits, Technical Specifications, License, and License Conditions will be authorized and documented using the guidance in Exhibit 6.
- 7.0 Review and approval of press releases should be accomplished in a timely manner. The guidance in Exhibit 4 may be used to facilitate the review.
- 8.0 ED Turnover (If not previously completed).
- \_\_\_\_\_ 8.1 At direction of Initial Response ED conduct a turnover to him (or in his absence, ESD) using Exhibit 1a. This turnover should be complete prior to the IREO ED assuming the position. The assumption of the ED position by the IREO ED should be the final step in activating the TSC.
- 9.0 EO's shall be directed from the ECC until the OSC is operational. Exhibit 1c should be used to track EO teams. EO's may be directed by the ECC until a licensed operator is available at the OSC to direct EO's. At that time, EO dispatch may be turned over to the OSC.
- 10.0 Recovery
- \_\_\_\_\_ 10.1 Implement EPIP-OC-.45 (if not turned over to Initial Response ED/ESD).
- \_\_\_\_\_ 10.2 Conduct close-out briefing with BNE (if not turned over to ESD).

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**DIRECTION OF EMERGENCY RESPONSE/  
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**25**EXHIBIT 1aEMERGENCY DIRECTOR TURNOVER CHECKLIST  
(Page 1 of 3)EMERGENCY CLASSIFICATIONDATE/TIME OF DECLARATION

UNUSUAL EVENT \_\_\_\_\_

ALERT \_\_\_\_\_

SITE AREA EMERGENCY \_\_\_\_\_

\* GENERAL EMERGENCY \_\_\_\_\_

Reactor power at time of event \_\_\_\_\_ % BRIEF DESCRIPTION OF THE EMERGENCY

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\* CURRENT PAR STATUS (Required for General Emergency) \_\_\_\_\_

STATUS OF ACCOUNTABILITY/ONSITE PROTECTIVE ACTIONS \_\_\_\_\_

PRESENT STATUS OF PLANT

\_\_\_\_\_ At Power ( \_\_\_\_\_ %)

\_\_\_\_\_ Hot Standby

\_\_\_\_\_ Hot Shutdown

\_\_\_\_\_ Cooling down (describe cooldown mode) \_\_\_\_\_

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**DIRECTION OF EMERGENCY RESPONSE/  
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**25**EXHIBIT 1a (CONT'D)EMERGENCY DIRECTOR TURNOVER CHECKLIST  
(Page 2 of 3)

Estimated time to 'STABLE' plant conditions \_\_\_\_\_ hours

Did reactor trip? YES - NO

Did ECCS activate? YES - NO

Is offsite power available? YES - NO

Are both Diesel Generators operable? YES - NO

Are Diesel Generators running? EDG#1 YES - NO EDG#2 YES - NO

Are the Station Blackout CTs available? YES - NO

Is fuel integrity maintained? YES - NO

Is containment integrity maintained? YES - NO

If no, specify \_\_\_\_\_

Do you suspect there is a release  
(monitored or unmonitored) in progress? ☐ NO ☐ YES ☐ N/A

If yes, specify pathway: \_\_\_\_\_

Is release ☐ AIRBORNE RELEASE ☐ LIQUID RELEASE ☐ UNKNOWNPlume dispersion ☐ ELEVATED ☐ GROUND ☐ N/A

Details: \_\_\_\_\_

Are there any abnormally high inplant radiation levels? YES - NO

Specify location \_\_\_\_\_

Are there any personnel injuries? YES - NO

Provide status \_\_\_\_\_

Were there any news releases issued? YES - NO

Specify \_\_\_\_\_

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EXHIBIT 1a (CONT'D)  
EMERGENCY DIRECTOR TURNOVER CHECKLIST

(Page 3 of 3)

Are there any open technical issues?

YES - NO

Specify \_\_\_\_\_

News releases issued ATTACHED

NOTES :

This image shows a single sheet of white paper with horizontal ruling lines. The lines are evenly spaced and run across the width of the page. There is no handwriting or other markings on the paper.

Turnover Completed: Date \_\_\_\_\_ Time \* \_\_\_\_\_

Current ED \_\_\_\_\_ Oncoming ED \_\_\_\_\_  
Sign Sign

\*Note time should be filled in when the oncoming ED assumes ED responsibilities.

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**DIRECTION OF EMERGENCY RESPONSE/  
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**25**EXHIBIT 1bPROTECTIVE ACTION RECOMMENDATIONS GUIDE**1.0 Onsite**

- 1.1 Inform the OSC Coordinator of personnel who were dispatched in support of emergency before the OSC was activated.
- 1.2 Relocate site personnel from areas of hazard or where the dose is projected to exceed 1000 mRem Total Whole Body Dose (TEDE). Consult RAC.
- 1.3 Evacuation of any area, site accountability, and site evacuation may be ordered at the discretion of the Emergency Director.

NOTE

If the Main Gate is evacuated, accountability can not be conducted.

- 1.4 Consider protective actions such as: securing ventilation, access control, Safety Department support. Consider securing Main, Turbine Bldg., and Computer Room doors to the Control Room in accordance with Control Room HVAC Procedure 331.1 if radiological release could affect Control Room personnel.
- 1.5 Consider protective actions such as: leaving the site, sheltering, or evacuation to an assembly area for Forked River Site, Combustion Turbine Site, Southern Area Stores Warehouse, Oyster Creek Administration Building (OCAB), and Trailer 300. If action is necessary, personnel may be informed by the following mechanisms:
  - 1.5.1 Contact Security Shift Supervisor to make a page announcement on the Forked River Site, and Trailer 300.

AND

- 1.5.2 Direct Security Shift Supervisor to dispatch a patrol to the affected areas to direct personnel to take the prescribed protective actions. Consider Security manpower requirements when taking this action.

OR

- 1.5.3 Direct available personnel (e.g., from OSC) to go to the affected areas to direct personnel to take the prescribed protective actions.

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EXHIBIT 1b (CONT'D)

PROTECTIVE ACTION RECOMMENDATIONS GUIDE

1.6.1 Consider use of KI if personnel have been exposed to significant Iodine. Consult RAC and Medical representative. EPIP-OC-.44 provides guidance.

1.7.1 Consider the need for security to control access to hazardous areas outside the RCA or outside the Protected Area.

1.8 Emergency Exposure Guidelines

A. Voluntary Life Saving Actions

No Pre-established Limit

B. Corrective Actions

Administrative Guidelines

- |                                 |         |
|---------------------------------|---------|
| 1. Total Whole Body Dose (TEDE) | 10 Rem  |
| 2. Lens of eye                  | 30 Rem  |
| 3. Total organ dose             | 100 Rem |

2.0 Off-site

2.1 At the General Emergency, review the Protective Action Logic Diagram and provide PAR's to the State within approximately 15 minutes of declaring the General Emergency.

2.1.1 The guidance provided by the NRC for a Protective Action Recommendation at a General Emergency is **Evacuation 2 miles in 360 degrees and 5 miles downwind**. Shelter all other non-affected areas of the 10 mile EPZ.

NOTE

If PAGs are exceeded, or are expected to be exceeded, beyond the 10 mile EPZ, assess the impact on an AD HOC Basis (i.e. Field Monitoring Team Data or Hand Written Contingency Calculations), and provide recommendations as appropriate.

2.1.2 Under certain circumstances it is permissible to recommend Sheltering if it is **known** that **Sheltering WILL PROVIDE GREATER PROTECTION**.

2.1.2.1 This would most likely occur only for short (puff) release periods that are less than 1.5 Hrs. (which is substantially shorter than the evacuation time).

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EXHIBIT 1b (CONT'D)

PROTECTIVE ACTION RECOMMENDATIONS GUIDE

2.1.2.2 There must be strong assurance that there is definite control of the release and termination of the release by the positive actions of the emergency responders actions during the release process (such as Containment Venting).

2.1.3 Sheltering may be the protective action of choice, if rapid evacuation is impeded by:

- a) severe environmental conditions--e.g. severe weather or floods;
- b) physical constraints to evacuation--e.g. inadequate roads

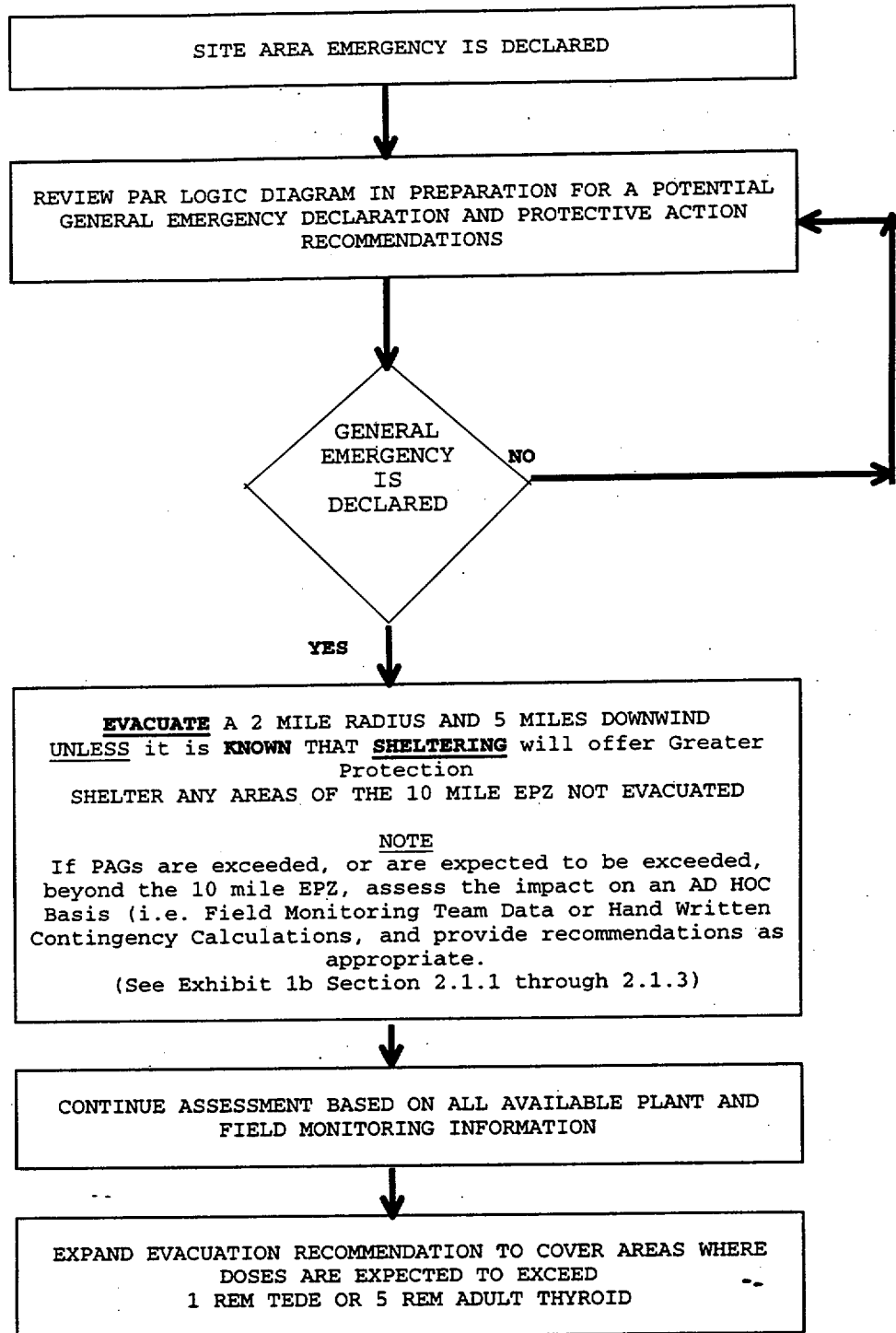
NOTE

The information in 2.1.3 "a" and "b" MAY ONLY BE AVAILABLE from previous discussions with New Jersey Office of Emergency Management or New Jersey Bureau of Nuclear Engineering Personnel.

2.2 During a Site Area Emergency, Protective Action Recommendations should not be immediately necessary, however, the PAR Logic Diagram should be reviewed.

2.3 Offsite protective actions should not be required during an Unusual Event or Alert.

EXHIBIT 1B (CONT'D)  
OYSTER CREEK  
PAR LOGIC DIAGRAM



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EXHIBIT 1c (Example)  
"TEAM DISPATCH FROM C.R." CHECKLIST

Team Member Name(s): \_\_\_\_\_

Team No.: \_\_\_\_\_

INITIAL SPACE AT RIGHT

- 1.0 Member(s) has/have been advised of radiological and/or industrial hazards in area or route. \_\_\_\_\_
- 2.0 Radiological monitoring capability is available to team. (Dose rate meter, alarming dosimeter or Rad Con escort) \_\_\_\_\_
- 3.0 Work scope and direction has been provided to team. \_\_\_\_\_
- 4.0 When available OSC Coordinator/designee informed of: \_\_\_\_\_
  - 4.1 Team member names \_\_\_\_\_
  - 4.2 Location dispatched to \_\_\_\_\_
  - 4.3 Function of team \_\_\_\_\_
  - 4.4 Time team returned \_\_\_\_\_
- 5.0 Conduct team debriefing \_\_\_\_\_
  - 5.1 Obtain team number from OSC if available (Note: insert in blank above) \_\_\_\_\_
  - 5.2 Provide pertinent information concerning existing plant conditions to the OSC. \_\_\_\_\_

Team Member Name(s): \_\_\_\_\_

Team No.: \_\_\_\_\_

INITIAL SPACE AT RIGHT

- 1.0 Member(s) has/have been advised of radiological and/or industrial hazards in area or route. \_\_\_\_\_
- 2.0 Radiological monitoring capability is available to team. (Dose rate meter, alarming dosimeter or Rad Con escort) \_\_\_\_\_
- 3.0 Work scope and direction has been provided to team. \_\_\_\_\_
- 4.0 When available OSC Coordinator/designee informed of: \_\_\_\_\_
  - 4.1 Team member names \_\_\_\_\_
  - 4.2 Location dispatched to \_\_\_\_\_
  - 4.3 Function of team \_\_\_\_\_
  - 4.4 Time team returned \_\_\_\_\_
- 5.0 Conduct team debriefing \_\_\_\_\_
  - 5.1 Obtain team number from OSC if available (Note: insert in blank above) \_\_\_\_\_
  - 5.2 Provide pertinent information concerning existing plant conditions to the OSC. \_\_\_\_\_

Team Member Name(s): \_\_\_\_\_

Team No.: \_\_\_\_\_

INITIAL SPACE AT RIGHT

- 1.0 Member(s) has/have been advised of radiological and/or industrial hazards in area or route. \_\_\_\_\_
- 2.0 Radiological monitoring capability is available to team. (Dose rate meter, alarming dosimeter or Rad Con escort) \_\_\_\_\_
- 3.0 Work scope and direction has been provided to team. \_\_\_\_\_
- 4.0 When available OSC Coordinator/designee informed of: \_\_\_\_\_
  - 4.1 Team member names \_\_\_\_\_
  - 4.2 Location dispatched to \_\_\_\_\_
  - 4.3 Function of team \_\_\_\_\_
  - 4.4 Time team returned \_\_\_\_\_
- 5.0 Conduct team debriefing \_\_\_\_\_
  - 5.1 Obtain team number from OSC if available (Note: insert in blank above) \_\_\_\_\_
  - 5.2 Provide pertinent information concerning existing plant conditions to the OSC. \_\_\_\_\_



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EXHIBIT 2EMERGENCY DIRECTOR RESPONSIBILITIES

The ED is vested with certain authority and responsibilities that may not be delegated to a subordinate. Included are:

- A. Approving and directing official notifications to offsite agencies.
- B. Approving and directing information releases to the media. ED/ESD approval is not required for public announcement of formal emergency declaration and changes of emergency classifications.
- C. Approving and, if possible, personally conveying appropriate Protective Action Recommendations to the New Jersey Office of Emergency Management.
- D. Serve as principle "point of contact" for receiving NRC directives.
- E. Classification of an emergency event.
- F. Directing onsite evacuation at the Alert or lower level emergency classification based on potential hazard to nonassigned personnel.
- G. Authorizing emergency workers to exceed 10 CFR 20 Radiation Exposure Limits in accordance with Exhibit 1b.
- H. Approving and directing deviation from established operating procedures, normal equipment operating limits, or technical specifications during attempts to control the plant emergency/or during a declared National Security Emergency.

Title

**DIRECTION OF EMERGENCY RESPONSE/  
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**25**EXHIBIT 2  
(continued)

NOTE: For National Security Emergencies, the following conditions must be met.

1. When this action is immediately needed to implement national security objectives as designated by the National Command Authority through the NRC.  
and
2. No action consistent with license conditions and technical specifications that can meet national security objectives is immediately apparent.

NOTE: In essence, no one below a licensed SRO individual can make the decision to depart from the license. However, if a more senior manager is present (i.e., Emergency Director) even though he may not possess an SRO license, the decision authority would be passed to him as a higher authority in the chain of command. The licensed SRO shall provide his best judgement to the ED for his consideration. Beyond that, the SRO shall follow the orders of his supervisor. It is imperative that the Emergency Director consult the SRO, and the Technical Support Center to the fullest extent practicable in arriving at a decision to deviate from prescribed procedures. However, Emergency Operating Procedures should generally not be deviated from. If the decision is made to depart from licensing conditions or technical specifications, notify the NRC before taking such actions if time permits or if time does not permit then within one hour.

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**DIRECTION OF EMERGENCY RESPONSE/  
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**25**EXHIBIT 2  
(continued)

When the Emergency Support Director (ESD) arrives at the EOF and declares himself to be ready to assume that role, he will assume overall responsibility for management of the response to the accident and recovery operations. With the activation of the Emergency Support Director function, the ESD specifically will assume decision authority for Items A, B, C, and D. However, decision authority for Items E, F, G, and H will be retained by the ED. Decisions on all of the listed actions normally will result from close and continuous consultation between the ED and the ESD, and it shall be the responsibility of the ED to ensure the ESD is provided with the necessary information to arrive at timely and appropriate decisions. In the special case of event classification, the ESD shall retain the prerogative to overrule the ED if, in the judgment of the ESD, uncertainty or other considerations exist to the extent warranting classification of higher level of emergency than that classified by the ED.

Title

**DIRECTION OF EMERGENCY RESPONSE/  
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**25**EXHIBIT 3OPERATIONS COORDINATOR RESPONSIBILITIES

- A. Coordinate operations and maintenance activities through the GSS(SSM) and the OSC Coordinator (when stationed).
- B. Establish and maintain direct communication with the TSC and OSC (when activated).
- C. Inform the ED of all significant plant changes and status of operator responses.
- D. Ensure ED's directions are provided to and implemented by the ECC (GSS(SSM)) and the OSC (OSC Coordinator).
- E. Consider the effects of operations and maintenance activities to off-site and on-site personnel prior to and during event response.

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EXHIBIT 4PRESS RELEASE APPROVAL GUIDANCE

- 1.0 Press releases should be issued within approximately one hour from the time that a major plant event has occurred. Press release shall be written in accordance with the following guidelines:
- 1.1 The following categories of information should be included in press releases.
- a. Level of Emergency  
This is simply identifying which one of the four emergency levels was declared.
  - b. Basis for Emergency Declaration  
This should be a simplified description of the plant condition which produced the emergency action level (e.g., a leak of radioactive water within the plant building).
  - c. Operations Status of Plant  
A simple description of plant status at the time of the emergency declaration (e.g., OCNGS was operating at 100% power when the leak was discovered, however, the plant is currently reducing power).

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**DIRECTION OF EMERGENCY RESPONSE/  
EMERGENCY CONTROL CENTER (ECC)**Revision No.  
**25**EXHIBIT 4PRESS RELEASE APPROVAL GUIDANCEd. Company/Government Interface

This is intended to inform the public that OCNGS has notified and is working closely with government officials so that public confidence and company credibility can be increased.

e. Corrective Actions

This should be a nontechnical description of what plant personnel are doing to correct the problem. It may include such language as "attempts are being made to stop the leak" or "plant personnel are investigating the cause of the leak."

f. Offsite Impact

A statement which simply assesses what impact this event may have on the environment. This is intended to provide factual information on offsite radiological conditions (e.g., a radioactive release is in progress, however, environmental monitoring teams have not detected any radiation levels offsite in excess of normal background). The initial press release should include all or part of the above information since time is of the essence. However, at the very least, it should contain items a-e above.

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**25**EXHIBIT 4PRESS RELEASE APPROVAL GUIDANCE

2.0 In addition to the above, the following guidance should be used in issuing press releases:

- Speculation, dose projections and Protective Action Recommendations should not be included in press releases.
- Press releases may have operational and radiological review but shall have concurrence by the ED. Original initialed copies are to be retained for records. Exceptions to this are limited to press releases with boiler plate information only (e.g., Pre-approved boiler plate press releases are contained in Procedure 1820-IMP-1720.01, Attachment 1) which may be issued without prior review and approval. Once the Governor has declared a "State of Emergency", all OCNCS press releases shall be provided to the State Police representative in the Media Center for review prior to final issuance. Changes made as a result of this review should be communicated to the ESD (ED if ESD is not activated).

NOTE

For Security related events, press releases containing potential safeguards information are to be reviewed by the Security Coordinator.

- Press releases will be reviewed expeditiously in order to support timely issuance.
- Press releases should avoid technical terms (e.g., plant names) and jargon (e.g., trip) and should be written as simple as possible. For example, ISO Condenser could be referred to as a heat removal process from the Reactor.

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EXHIBIT 5  
ALTERNATE EMERGENCY RESPONSE FACILITIES

This exhibit provides for a description of evacuation preplanning for Alternate Emergency Response Facilities as follows:

1. Control Room/ECC - Evacuation of Control Room - the Operators control the plant from remote shutdown panels and the GSS(SSM) directs plant operations from the TSC. All other ECC IREO members are integrated into the TSC organization. (Refer to 2000-ABN-3200.30 for specific direction).
2. OSC - Evacuation of OSC - all OSC personnel are evacuated to the SOSC which is located in the rear of the TSC. (Refer to EPIP-OC-.27 for specific direction.)
3. TSC - Evacuation of TSC - the ED support staff which includes the ED, ED Assistant, RAC, RASE, and PI Rep. evacuate to the Control Room (ECC). The Tech Support staff which includes the TSC Coordinator, TSC Engineers, Communication Coordinator, Communicators and the Tech Assistant evacuate to the OSC. The Core Engineer would initially report to the Control Room, but if his services are not needed, he will be sent to the OSC. (Refer to EPIP-OC-.26 for specific direction).
4. Remote Assembly Area - Evacuation of RAA's - if the Forked River Bldg. 14 RAA is not available then relocate to the Berkeley Customer Operations Center.
5. Emergency Assembly Area - The EAA may be redirected to the Forked River Assembly Area or to the Remote Assembly Area at Berkeley Customer Operations Center as directed by management. In this case Site Accountability is conducted as personnel exit the site.
6. EOF - There are no backup facilities for the EOF because it is remote from the site and it is unlikely that a nuclear related incident would affect both the plant and this center.



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**DIRECTION OF EMERGENCY RESPONSE/  
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**25**EXHIBIT 6EMERGENCY DIRECTOR AUTHORIZATION FORM  
FOR DEVIATIONS FROM REQUIREMENTSTYPE OF DEVIATION

- ☐ I. Deviations authorized under the Emergency Plan.  
Deviations from operating procedures, emergency procedures, emergency plan implementing procedures, or normal equipment operating limits that do not result in a deviation from Technical Specifications, Operating License, License Conditions or other NRC Rules, Regulations, or Orders.
- ☐ II. Deviations authorized by 10 CFR 50.54 (x) and (y) for the protection of public health and safety.
- ☐ A. Departure from a Technical Specification requirement.
- ☐ B. Departure from the Operating License.
- ☐ C. Departure from a License Condition.  
(Refer to page E6-3 & 4 for assistance in defining "License Conditions")
- ☐ D. Departure from NRC Rules, Regulations, or Orders.

Deviations are only permissible if all of the following are met:

1. An Emergency condition exists which can impact the public health and Safety.
2. The deviation is allowed if there are no actions which are consistent with license conditions or technical specifications.
3. The action must be taken immediately in order to be effective in protecting the public health and safety.

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**DIRECTION OF EMERGENCY RESPONSE/  
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**25**EXHIBIT 6 (cont.)EMERGENCY DIRECTOR AUTHORIZATION FORM  
FOR DEVIATIONS FROM REQUIREMENTSDEVIATION JUSTIFICATION

TYPE I II (circle)	TYPE I II	TYPE I II
<u>Deviation From</u>	<u>Deviation From</u>	<u>Deviation From</u>
___ Procedure _____	___ Procedure _____	___ Procedure _____
___ Tech Spec _____	___ Tech Spec _____	___ Tech Spec _____
___ Operating License (includes EOP's) _____	___ Operating License (includes EOP's) _____	___ Operating License (includes EOP's) _____
___ License Condition (See E6-3&4) _____	___ License Condition (See E6-3&4) _____	___ License Condition (See E6-3&4) _____
___ NRC Rules, Reg or Orders _____	___ NRC Rules, Reg or Orders _____	___ NRC Rules, Reg or Orders _____
___ Other _____	___ Other _____	___ Other _____
<u>Deviation Justification</u> _____ _____ _____	<u>Deviation Justification</u> _____ _____ _____	<u>Deviation Justification</u> _____ _____ _____
<u>Alternatives Considered</u> _____ _____ _____	<u>Alternatives Considered</u> _____ _____ _____	<u>Alternatives Considered</u> _____ _____ _____
SRO Concurrence _____	SRO Concurrence _____	SRO Concurrence _____
TSC Engr Concurrence _____	TSC Engr Concurrence _____	TSC Engr Concurrence _____
ED Approval _____	ED Approval _____	ED Approval _____
Date      Time	Date      Time	Date      Time
Notification of NRC by _____	Notification of NRC by _____	Notification of NRC by _____
Date      Time	Date      Time	Date      Time
NRC Person Notified _____	NRC Person Notified _____	NRC Person Notified _____

**EMERGENCY DIRECTOR AUTHORIZATION FORM  
FOR DEVIATIONS FROM REQUIREMENTS  
(continued)  
LICENSED CONDITIONS**

REGULATION	REQUIREMENT	DESCRIPTION	DEVIATION
10 CFR 50.54(A) 10 CFR 50 APP. B	OQA Plan	Plan to insure quality in all phases of Nuclear Plant operation and to enhance Safety	A 50.54(x) deviation consists of not implementing the OQA Plan or a section of the Plan to protect public safety and health. See NOTE 1 below.
10 CFR 50.54(p) 10 CFR 73.55	Safeguards and Security Plan	Requirement for Physical Security and control of information pertaining to the method employed.	A 50.54(X) deviation is not implementing a major portion of the Security Plan to protect public health and safety. See Note 2 below.
10 CFR 50.54(q) 10 CFR 73.55(b) 10 CFR 50 APP. E	Emergency Plan	Plan to insure the appropriate facilities, personnel, procedures and equipment are available to adequately respond to emergencies. The sub-parts of this item are: *Standard Classification System *Notification of Local, State and Federal Organizations *Methods, Systems & Equipment for assessing & monitoring actual or potential radiological consequences *Use of Protective Action Recommendations *Controlling radiological exposure *Activation of the Emergency Response Facilities *Activation/use of Emergency Response Facilities *Use of ERDs (Emergency Response Data System)	All of these sub-parts of the Emergency Plan are implemented via implementing procedures. Examples of 50.54(x) <b>DEVIATIONS</b> , while protecting public health and safety follow: <b>Deciding Intentionally to NOT.</b> * Control exposures of all workers per EPA-400 limits * Activate the Emergency Response organization * Use/Activate Emergency Facilities  The other items of this part do not meet the criteria for a 50.54(x) <b>DEVIATION</b> that would still protect the public health and safety. Any instance of not complying with these parts is a violation, but not a valid <b>DEVIATION</b> .
10 CFR 50.54(z)	NRC Operations Center	Requires notify and maintain communications with the NRC Operations Center of events specified in 10 CFR 50.72	a 50.54(x) deviation is when the NRC is intentionally Not notified or when communications with the NRC is being suspended without NRC concurrence to protect public health and safety.

**NOTE 1**

The OQA Plan describes the formal plan to implement the requirements of 10 CFR 50 Appendix B. The Plan contains the controls and bases for procedures that implement the Plan. If an entire process described in the Plan is not followed, this must be considered under 10 CFR 50.54(x). It is unlikely that such a deviation could be considered to protect the health and safety of the public thus could not be authorized under 10 CFR 50.54(x). Specific and individual deviations from the plan's implementing procedures are not considered a deviation from the Plan, and as such would still require the approval of the Emergency Director and documentation on Exhibit 6 but would not require notification of the NRC per 10 CFR 50.72(a) (2) (i) (C).

**NOTE 2**

The Security Plan implements the requirements of 10 CFR 73.55. In essence, deviations from the Security Plan are deviations from 10 CFR 73.55 and in accordance with 10 CFR 73.55(a) are reported in accordance with 10 CFR 50.54(x). In addition to the Security Plan, 10 CFR 73.55 requires a Safeguards Contingency Plan which gives guidance to accomplish specific defined objectives for different events. The Safeguards Contingency Plan is considered similar to an implementing document and therefore specific deviations from it are not 10 CFR 50.54(x) deviations. However, if whole parts of the Safeguards Contingency Plan are not followed, these should be considered under 10 CFR 50.54(x).

**Example:** The Security Plan, as required by 10 CFR 73.55, contains requirements on access controls. If access controls are suspended this should be considered a deviation of the Security Plan and be reported in accordance with 10 CFR 50.54(x). However, if access controls will be maintained but differently than described in the procedures, this is not a 10 CFR 50.54(x) deviation but would still require the appropriate approval and documentation using this exhibit page E6-1.

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EXHIBIT 6

EMERGENCY DIRECTOR AUTHORIZATION FORM  
FOR DEVIATIONS FROM REQUIREMENTS  
(continued)

**ADDITIONAL INFORMATION AND REGULATORY EXCERPTS**

- 50.54(X) - A licensee may take reasonable action that departs from a license condition or technical specification (contained in a license issued under this part) in an emergency when this action is immediately needed to protect the public health and safety and no action consistent with license conditions and technical specifications that can provide adequate or equivalent protection is immediately apparent.

NOTE

The NRC has interpreted 50.54(x) to apply to NRC rules, regulations and orders in addition to Technical Specifications, Licenses, and License Conditions.

- 50.54(y) - Licensee action permitted by paragraph (x) of this section shall be approved, as a minimum, by a licensed senior operator prior to taking the action.
- 73.55(a) - In accordance with section 50.54(x) and (y) of Part 50, the licensee may suspend any safeguards measure pursuant to Section 73.55 in an emergency when this action is immediately needed to protect the public health and safety and no action consistent with the license conditions and technical specifications that can be provide adequate or equivalent protection is immediately apparent. This suspension of safeguards measures must be reported in accordance with the provisions of 73.71. Reports made under Section 50.72 need not be duplicated under 73.71.

NOTE

In essence, no one below a licensed SRO individual can make the decision to depart from the License. However if a more senior manager is present (ie., Emergency Director) even though he does not possess an SRO license, the decision authority would be passed to him as a higher authority in the chain of command. The licensed SRO shall provide his best judgement to the ED for his consideration. Beyond that the SRO shall follow the orders of his supervisor.

It is suggested that the Emergency Director consult to the extent practicable with the Technical Experts at the TSC in arriving at a decision to deviate from prescribed procedures. However, Emergency Operating Procedures should not generally be deviated from.

- 50.72(b) - Any deviation from the plant's technical specifications authorized pursuant 50.54(x) of this part.

NOTE

Notify the NRC before taking action if time permits but at least within 1 hour of the deviation.

The NRC interprets the reporting requirement to cover any departure under 50.54(x) AND (Y), and is not limited to Technical Specification deviations.

Title

**DIRECTION OF EMERGENCY RESPONSE/  
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EXHIBIT 7

SITE ACCESS POLICY FOR MEDIA DURING EMERGENCIES

Providing reasonable site access to the media during a plant emergency is in the best interest of the corporation and the public.

Responsibility for approving site access rests with the Emergency Support Director, or, if the EOF is not activated, with the Emergency Director.

For purposes of media access to the site during an emergency, the same industrial safety and security standards and requirements that apply to non-essential employees will be applied to the media.

Communication Department Responsibilities

Requests for media access will be made to the ESD or ED by the Public Information Duty Representative or the Media Center Lead.

Communications will provide the ED/ESD with the number of media to gain site access, areas to be accessed and length of time the media will be there, (Communications will decide the number of media gaining access based on conditions at the time of the emergency. An attempt will be made to gain access for, at a minimum, one representative each from radio, television and print media.)

Communications will provide media transportation on and off site.

Communications will have each member of the media sign a Media Access Briefing Form, Exhibit 15, indicating they were briefed about the risks as they were known at the time by the corporation.

1. If media access does not involve entry into a posted radiologically controlled area:
  - a. At Oyster Creek, Security will retain responsibility for sign in and badging.
  - b. Communications will supervise and escort the media while on site.
  - c. Communications will conduct a briefing explaining the radiological and industrial conditions and risks on site.
2. If media access involves entry into a posted radiologically controlled area:
  - a. Media will be processed at Bldg. 14 as appropriate, receiving dosimetry, training, bioassay, waivers and briefings based on established procedural requirements.
  - b. Communications will notify the Security Coordinator prior to site access.
  - c. Communications in conjunction with Radiological Controls will supervise and escort the media while in posted radiologically controlled areas.

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**DIRECTION OF EMERGENCY RESPONSE/  
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EXHIBIT 7 (cont.)

SITE ACCESS POLICY FOR MEDIA DURING EMERGENCIES

ED/ESD Responsibilities

1. The ED/ESD will consult with the RAC/Group Leader R&EC, and media will be granted access if the projected dose will not exceed the 500 millirem annual limit including external and internal exposure.

NOTE

For Security Driven Events, media access to the site must also be approved by the local Law Enforcement Agency and Security.

2. Approve media access to the site if requirements are met.

Title

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EXHIBIT 8

ECC COMMUNICATIONS COORDINATOR CHECKLIST

INITIALS

- \_\_\_\_\_ 1.0 Report to the Operations Coordinator\ED Assistant and support information transmittals to the TSC, OSC, EOF, BNE and NRC. Also corporate engineering if applicable.
- 2.0 Direct communications operations at the facility and ensure all communicator actions are completed in accordance with procedure.
- \_\_\_\_\_ 3.0 Implement EPIP-OC-.03, Emergency Notification.

NOTE

Initial Off-site notifications to the State must be accomplished within fifteen (15) minutes of the declaration.

- \_\_\_\_\_ 4.0 Continue Off-site notifications until the ESD has assumed the offsite notification and the EOF communicator relieves the ECC of that responsibility. The ECC will continue to make On-Site plant page announcements.

NOTE

Transmissions of information to the NRC and BNE may require special attention. Any NRC and BNE needs should be addressed as soon as practical.

- \_\_\_\_\_ 5.0 When directed by the Emergency Director, the ECC Communicator shall transfer offsite notifications to the EOF Communications Coordinator via the telephone and inform the EOF that offsite notifications have been transferred and that you will follow up with a fax of all completed notifications made from the ECC.

NOTE

On-site plant page announcements will remain the responsibility of the ECC.

- \_\_\_\_\_ 6.0 In accordance with EPIP-OC-.03 establish and maintain communications with Off-site agencies until relieved by the TSC or EOF Communications Coordinator.

Title

**DIRECTION OF EMERGENCY RESPONSE/  
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**25**

EXHIBIT 8  
(continued)

ECC COMMUNICATIONS COORDINATOR CHECKLIST

INITIALS

NOTE

After EOF is activated and the BNE is present, the transmission of Station Status Checklist to BNE should be terminated.

7.0 Initiate the development of watch bill for your organization that will support the emergency on a 24 hour/day basis. (Exhibit 11)

8.0 Ensure that communications to the NRC via NRC/ENS line, this function may be transferred to the TSC if communications personnel are available in that location. This may require callout of addition personnel.

NOTE

Notifications are required within 1 HR of declarations. NRC may require constant manning of this phone.

9.0 When the TSC communication coordinator is fully staffed and ready, transfer ENS line responsibilities to the TSC. NRC may resist this transfer but manpower limitations mandate it. If ERDS is operational it will facilitate the transfer.

10.0 As requested, provide the Ops. Coordinator with the status of the OSC teams utilizing an available lan based PC

NOTE

If this system fails, obtain status via phone and ensure the Ops Coordinator is kept apprised.

11.0 Report failed communications systems to the TSC Communications Coordinator. Provide specific information for each trouble report including: circuit, nature of problem, location, etc.



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EXHIBIT 8  
(continued)

ECC COMMUNICATIONS COORDINATOR CHECKLIST

INITIALS

\_\_\_\_\_ 12.0 Call out additional personnel, if required (e.g., for NRC interface)

NOTE

For call out of Duty Roster personnel, contact Security Shift Supervisor. For additional staff, contact Group Leader Adm Support/ If not available, use normal dept. call-out methods.

13.0 If the plant computer system fails, transmit critical plant parameters to the TSC approximately every fifteen (15) minutes, or as conditions change.

\_\_\_\_\_ 14.0 Ensure equipment status is maintained by the assigned communicator. If this system fails, equipment status should be manually transmitted to the TSC every thirty (30) minutes or as conditions change.

15.0 Upon termination of the emergency, ensure those agencies previously notified in EPIP-OC-.03 have been advised of the termination.

15.1 If Off-site notifications responsibility has been transferred, this responsibility should be transferred also. Verify completion with appropriate Communications Coordinator.

\_\_\_\_\_ 16.0 As requested, provide the Ops. Coordinator with the status of the OSC teams utilizing an available lan based PC.

\_\_\_\_\_ 17.0 All completed logs and records are then forwarded to the Emergency Preparedness Dept.

Signature \_\_\_\_\_  
ECC Comm. Coord.

Date \_\_\_\_\_

Title

**DIRECTION OF EMERGENCY RESPONSE/  
EMERGENCY CONTROL CENTER (ECC)**

Revision No.  
**25**

EXHIBIT 9

ECC COMMUNICATOR

Engineering Line

INITIALS

- \_\_\_\_\_
- 1.0 Report to ECC Comm. Coordinator.
  - 2.0 As required, conference the Engineering line.
  - 3.0 If the Plant Computer System is inoperable, obtain and complete Critical Plant Parameters sheet and ensure it is transmitted over the fax to all centers except ECC.

NOTE

Use the time the data was compiled as opposed to the time the data is sent when filling out the sheet.

- 4.0 Maintain the Equipment Status Display on the computer with EP applications for current Plant Status. (Instructions are in Exhibit 9A.)
- 5.0 Complete Station Status Checklist and transmit it to the BNE until the BNE function is at the EOF. Obtain directions from the ECC Comm. Coord. on when to terminate transmittal.
- 6.0 Maintain a Communicator Log (Exhibit 13) which includes:
  - Verbal communication messages not documented in writing elsewhere.
  - Any relevant information to communicator duties.
- 7.0 The Communicator may request the assistance of the Communications Coordinator to assign other personnel, such as the Off-shift STA, to perform Station Status Checklist transmission, or other tasks as necessary.

Title  
**DIRECTION OF EMERGENCY RESPONSE/  
EMERGENCY CONTROL CENTER (ECC)**

Revision No.  
**25**

EXHIBIT 9A

EQUIPMENT STATUS DISPLAY SYSTEM

- 1.0 Ensure that the computer with the EP applications is logged onto the LAN.
- 2.0 Open the "EP Applications" folder.
- 3.0 Double Click on the ESDS Icon.
- 4.0 Select the center from which you are accessing ESDS (i.e.; ECC, TSC, CSC, Other).
- 5.0 IF asked "Do you wish to reset status screen", THEN click the YES button.

NOTE

The ECC and TSC have the ability to change equipment status and add comments. The OSC has the ability to add comments. All other centers can view status. All changes being made by the TSC or OSC should be coordinated with the ECC Engineering Line Communicator.

Title

**DIRECTION OF EMERGENCY RESPONSE/  
EMERGENCY CONTROL CENTER (ECC)**

Revision No.  
**25**

EXHIBIT 10

ECC COMMUNICATOR

Plant Status Update Line

INITIALS

- \_\_\_\_\_ 1.0 Activate the fax machine and select A/B switch for desired line.
- 1.1 Line "A" is the primary which is commercial line i.e. 609-971-XXXX.
- 1.2 Line "B" is the backup which is the EP Circuit.
- \_\_\_\_\_ 2.0 Set time and date of fax by PCS clock.
- \_\_\_\_\_ 3.0 Send test transmission to TSC, OSC, and EOF (when activated). If messages are waiting, the first may be used as the test transmission.
- 4.0 Number and log each fax transmission using Exhibit 12.

NOTE

Number transmissions sequentially regardless of the type of transmission. Use location designator as part of sequential number, i.e. ECC-001, ECC-002, etc.

- 5.0 The priority for routine transmissions are:
- Critical Plant Parameters to TSC (every 15 minutes at a minimum) if the Plant Computer System is inoperable.
  - Equipment Diagrams to TSC (every 30 minutes or as changes occur) if equipment status display system is inoperable.
  - Station Status checklist to BNE at least every 30 minutes until they are activated at EOF or as directed by the Comm. Coordinator. (Must change Fax to commercial line "A".)
  - Other transmissions, Emergency Message Forms with appropriate information (Exhibit 14).

NOTE

The ECC Communications Coordinator may pre-empt these priorities.

- 6.0 Receive, log and distribute messages sent via fax to ECC.

Title  
**DIRECTION OF EMERGENCY RESPONSE/  
EMERGENCY CONTROL CENTER (ECC)**

Revision No.  
**25**

EXHIBIT 11

Page of

EMERGENCY SHIFT SCHEDULE

DATE:

GROUP (eg. Admin.):

TIME:	SHIFT 1	SHIFT 2	SHIFT 3
BEGIN			
END			

	NAME	NAME	NAME
POSITION #			
P HOME #			
H			
O WORK #			
N			
E BEEPER #			
POSITION #			
P HOME #			
H			
O WORK #			
N			
E BEEPER #			
POSITION #			
P HOME #			
H			
O WORK #			
N			
E BEEPER #			
POSITION #			
P HOME #			
H			
O WORK #			
N			
E BEEPER #			



Number  
**EPIP-OC-.02**

**DIRECTION OF EMERGENCY RESPONSE/  
EMERGENCY CONTROL CENTER (ECC)**

Revision No. 25

### EXAMPLE

MESSAGE	TIME	SEND INITIAL	TSC	OSC	EOF	ECC	COMMENTS
			TSC	OSC	EOF	ECC	COMMENTS

Title

**DIRECTION OF EMERGENCY RESPONSE/  
EMERGENCY CONTROL CENTER (ECC)**

Revision No.  
**25**

EXHIBIT 13

EXAMPLE

**OYSTER CREEK NUCLEAR GENERATING STATION  
EMERGENCY COMMUNICATIONS**

Communicator Log

Location: \_\_\_\_\_ Date: \_\_\_\_\_

DLV Number: \_\_\_\_\_ Dial Code: \_\_\_\_\_

Name: \_\_\_\_\_

Time: \_\_\_\_\_ Remarks: \_\_\_\_\_

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Title

**DIRECTION OF EMERGENCY RESPONSE/  
EMERGENCY CONTROL CENTER (ECC)**

Revision No.  
**25**

EXHIBIT 14

EXAMPLE

Number _____				
<b>OCNGS Emergency Message</b>				
<b>To:</b>	• OSC	• TSC	• EACC	_____
	• ECC	• EOF		Staff Position Other
<b>Message:</b>				
<b>Originator:</b> _____				
	Staff Position		Initials	Time
<b>Location:</b>	• ECC	• TSC	• OSC	• EACC • EOF
<b>Reply:</b>				
<b>Reply Completed by:</b> _____				
	Staff Position/Other	Initials	Time	Date

A0001731 10-84



Title

**DIRECTION OF EMERGENCY RESPONSE/  
EMERGENCY CONTROL CENTER (ECC)**

Revision No.  
**25**

EXHIBIT 15

**MEDIA ACCESS BRIEFING FORM**

I have been briefed about the risks, both industrial and radiological, to which I may be exposed while at this nuclear facility. I understand there may be some risk and willingly accept it for the purpose of visiting the plant site.

Signature \_\_\_\_\_

Date \_\_\_\_\_

News Organization \_\_\_\_\_

Communications Rep. \_\_\_\_\_

**OYSTER CREEK  
EMERGENCY PREPAREDNESS  
PROCEDURE MANUAL**Number  
**OEP-ADM-1311.03**

Title

**Emergency Preparedness Section Administration**

Revision No.

**4**

Applicability/Scope

Applies to work at Oyster Creek Emergency Preparedness

Responsible Office

Emergency Preparedness

This document is within QA plan scope X Yes    No  
Safety Reviews Required X Yes    No

Effective Date

Date of Sale

Prior Revision   3   incorporated the  
following Temporary Changes:N/AThis Revision   4   incorporates the  
following Temporary Changes:N/AList of Pages (all pages rev'd to Rev. 4)

1.0 to 10.0

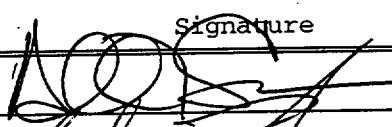
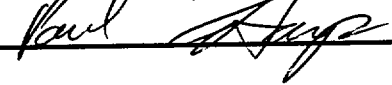
E1-1

E2-1

E3-1

**NON-CONTROLLED  
This Document Will Not  
Be Kept Up To Date  
DCC Oyster Creek**

This procedure replaces Procedure 6431-ADM-1311.03

	Signature	Concurring Organization Element	Date
Originator		Emergency Planner	1/5/00
Approved By		Mgr., Emergency Preparedness	1/11/00

Title	Revision No.
<b>EMERGENCY PREPAREDNESS SECTION ADMINISTRATION</b>	<b>4</b>

## DOCUMENT HISTORY

Rev.	Date	Originator	Summary of Change
0	12/96	A. Smith	<p>Conduct Reporting Time Survey using computer vs. paper and mailing.</p> <p>Conduct procedure change notice distribution via computer vs. paper and mailing.</p> <p>Remove Exhibit 5, Procedure Flow. This captured in CEP-ADM-1218.01.</p> <p>PCIN no longer needs Mgr. approval.</p> <p>Clarified required reading admin requirements.</p>
1	06/98	A. Smith	Administrative change of procedure change notices to reflect current flow and update typical PCIN form.
2	01/99	A. Smith	Reference "Site" Procedure Coordinator due to transfer of procedure coordination into the plant division. Add PCIN notification to EP trainer via l-notes for same.
3	08/99	A. Smith	Incorp Lotus Notes PCIN, incorp the "CAP" Program. Revise PCIN distribution, add references for procedure coord.
4	DOS	A. Smith	Required for sale of OCNCS. Remove COMEC number from cover page. Change references from GPU or GPUN to OCNCS or corporate.

Title

**EMERGENCY PREPAREDNESS SECTION ADMINISTRATION**

Revision No.

**4**

Table of Contents

- 1.0 Purpose
- 2.0 Applicability/Scope
- 3.0 Definitions
- 4.0 Responsibilities
  - 4.1 Emergency Preparedness Manager
  - 4.2 Duty Roster Coordinator
  - 4.3 Emergency Preparedness Procedure Coordinator
  - 4.4 Emergency Preparedness Surveillance Coordinator
  - 4.5 Emergency Preparedness Section Staff
- 5.0 Procedure
  - 5.1 Emergency Duty Roster Maintenance
  - 5.2 Reporting Time Estimate Survey
  - 5.3 Procedure Change/Information Notices
  - 5.4 Procedure Coordination
  - 5.5 Surveillance Coordination
  - 5.6 Emergency Preparedness Staff Training
- 6.0 References
- 7.0 Exhibits

Title

**EMERGENCY PREPAREDNESS SECTION ADMINISTRATION**

Revision No.

**4**

**1.0**    PURPOSE

- 1.1    This procedure provides for the revision and distribution of the Emergency Duty Roster, for the verification of Roster personnel qualifications, and for the publication and distribution of the Confidential Telephone Information Listing.
- 1.2    This procedure establishes the guidelines for conducting the Emergency Reporting Time Estimate Survey. This survey is intended to ensure that all persons that are assigned to the Initial Response and Emergency Support Organizations that require 60 minute reporting time (Essential Personnel) can actually arrive at their duty location within 60 minutes.
- 1.3    This procedure provides for the dissemination of information concerning Emergency Plan Implementing/Administrative Procedure changes as well as relevant operating experience to Emergency Duty Roster members and others associated with emergency preparedness.
- 1.4    This procedure establishes the guidelines for procedure coordination.
- 1.5    This procedure establishes the guidelines for surveillance coordination.
- 1.6    This procedure provides the Emergency Preparedness Section (EPS) staff Training Program.

**2.0**    APPLICABILITY AND SCOPE

- 2.1    This procedure applies to the Oyster Creek Emergency Preparedness Section.
- 2.2    This procedure applies to the position owners/Administrators for the OC ERO Duty Roster.

**3.0**    DEFINITIONS

None

Title

**EMERGENCY PREPAREDNESS SECTION ADMINISTRATION**

Revision No.

**4**

**4.0**    **RESPONSIBILITIES**

**4.1**    The Emergency Preparedness Manager shall:

- 4.1.1**    Designate one Emergency Planner as the Section Procedure Coordinator.
- 4.1.2**    Designate one Emergency Planner as the Section Surveillance Coordinator.
- 4.1.3**    Periodically meet with the Procedure & Surveillance Coordinators to discuss procedure & surveillance status, provide direction, resolve deficiencies and/or problems.
- 4.1.4**    Ensure the EPS staff receives appropriate enhancement training as resources permit.

**4.2**    The Duty Roster Coordinator shall:

- 4.2.1**    Revise Roster when E.P. Mgr. determines sufficient organization or personnel changes have occurred or annually.
- 4.2.2**    Maintain on file completed Emergency Duty Roster Change Forms to be incorporated with the next Roster.
- 4.2.3**    Maintain roster revisions with associated Emergency Duty Roster Change Forms in Section files for 2 years and then discard.

**4.3**    The Emergency Preparedness Procedure Coordinator shall:

- 4.3.1**    Prepare a Procedure Change/Information Notice similar to Exhibit 1 or via Lotus Notes for substantive procedure changes and information. Distribute to appropriate Duty Roster positions.
- 4.3.2**    Develop the distribution list for Notice dissemination.
- 4.3.3**    Maintain a record of distribution of procedure changes in Section Files or Lotus Notes Database for one year.
- 4.3.4**    Ensure that all section procedures are prepared, reviewed and approved in accordance with Station Procedures 103, 107, and 130.

Title

**EMERGENCY PREPAREDNESS SECTION ADMINISTRATION**

Revision No.

**4**

4.4 The EP Surveillance Coordinator shall:

4.4.1 Schedule, assign, and track surveillance tasks to their completion.

4.4.2 Conduct the Annual Emergency Reporting Time Survey.

5.0 PROCEDURE

5.1 Duty Roster Maintenance

5.1.1 Obtain the current Roster and completed change forms on file.

5.1.2 Prior to duty roster issue and approximately monthly, the training status of all personnel on the duty roster should be checked using available resources.

5.1.3 Prior to duty roster issue and approximately monthly, verify that all Emergency Plan required Initial Response team members responding on-site are respirator qualified, using available resources.

5.1.4 Personnel with expired qualifications should be informed through the Duty Roster Position Owner/Administrator. The expired qualification makes the person ineligible for that position and shall not be counted as a part of the ERO during the period of expiration. A qualification is considered expired when all associated "grace periods" have been exhausted and there is not an associated extension provided.

5.1.5 Once training and respirator qualifications of Roster members have been reviewed, forward the roster to the Emergency Preparedness Manager for review.

5.1.6 With EP Mgr. concurrence the DR Coordinator will submit the roster to the Director - OC or designee for final approval.

Title

**EMERGENCY PREPAREDNESS SECTION ADMINISTRATION**

Revision No.

**4**

5.1.7 Distribute the revised Emergency Duty Roster to all appropriate management, assigned personnel, the Shift Security Commander and all facility custodians for placement in the Emergency Response Facilities.

5.1.8 Prepare the Confidential Telephone Information listing using the available resources.

5.1.8.1 Revise and distribute an updated Confidential Telephone Information listing to the Plant Operations Director for use in the Site Shift Mgr. Office and to the Security Manager for use in the Security Shift Supervisor's Office.

- The Roster should also be distributed to the OSC Coordinator, TSC Coordinator, Group Leader-Adm. Support Logbooks and the EOF Access Roster Case.

5.2 Annual Emergency Reporting Time Estimate Survey

5.2.1 Once per calendar year (+ 25%) a reporting time estimate survey should be conducted.

5.2.2 Identify the names of the essential personnel on the roster that need to report within one hour. The EOF personnel on the Emergency Support Duty Roster that are required to report within one hour are identified by a pound sign (#).

5.2.3 Information concerning response time will be verified. Only responses which indicate greater than 1 hour will be evaluated.

5.2.4 A list of personnel that indicate greater than 60 minute reporting time should be compiled as received.



Title

**EMERGENCY PREPAREDNESS SECTION ADMINISTRATION**

Revision No.

**4**

5.2.5 A status report of all personnel that indicate greater than 60 minute reporting time will be forwarded to the Emergency Preparedness Manager. CAP's will be assigned to the Position Owners/Administrators for resolution.

5.3 Procedure Change and Information Notification

5.3.1 Procedure Changes

- 5.3.1.1 When a substantive procedure change has been submitted for publication and distribution, a Procedure Change/Information Notice similar to Exhibit 1 should be prepared and distributed to the current Emergency Duty Roster.
- The notice should include a summary of the changes made to the procedure.
- 5.3.1.2 A copy of the procedure change notices will be maintained in Section Files or Lotus Notes for 1 year.
- 5.3.1.3 Forward all PCIN's via Lotus Notes to EP Trainer for determination of revision to EP Training Program Task List.

5.3.2 Operating Experience Information

- 5.3.2.1 The Emergency Preparedness section members may distribute current written material from nuclear periodicals, literature, event reports or critiques related to emergency preparedness.
- 5.3.2.2 A Procedure Change/Information Notice may be prepared. Attached to it will be the information to be distributed.

Title

**EMERGENCY PREPAREDNESS SECTION ADMINISTRATION**

Revision No.

**4**

5.4 Procedure Coordination

5.4.1 All procedures developed or changed within the section will be routed through the Site Procedure Coordinator.

5.4.1.1 Each procedure, once having received a preliminary review by the EP Manager, will be forwarded by the Site Procedure Coordinator for compliance with Procedure 107.

5.4.1.2 The Site Procedure Coordinator should maintain the status of procedure changes from their origin to completion.

5.5 Surveillance Coordination

5.5.1 The Emergency Preparedness Surveillance Program will be administered by the Surveillance Coordinator.

5.5.1.1 The status of surveillance items will be maintained current as tasks are scheduled, assigned and completed. Communications surveillance requirements are contained in the EPS Surveillance Procedure OEP-SUR-1310.09.

5.5.1.2 In addition to the surveillance tasks, the Surveillance Coordinator will be responsible for coordinating the completion of tasks required by Administrative Procedure OEP-ADM-1319.02, "Emergency Response Facilities and Equipment Maintenance.

5.5.1.3 A master task list of surveillances should be developed annually, tracked and distributed to affected personnel.

Title

**EMERGENCY PREPAREDNESS SECTION ADMINISTRATION**

Revision No.

**4**

5.6 Emergency Preparedness Staff Training

- 5.6.1 The Emergency Preparedness Manager or designee will ensure that a professional enhancement and internal EPS training program is implemented.
- 5.6.2 The program may include sending staff members to observe other utility programs. Trip reports for these efforts should be shared within EPS.
- 5.6.3 The program may include EPS training sessions to improve staff proficiency in EPIP's, other procedures, or ERF use/maintenance.
- 5.6.4 Training sessions should be documented on Exhibit 3 and maintained available for 2 years.
- 5.6.5 New EP Staff Members will complete the required reading within 6 months of assignment and sign off Exhibit 2. A file of Exhibit 2 should be kept in the EP Department Files.

6.0 REFERENCES

- 6.1 Emergency Preparedness Procedure OEP-ADM-1319.01, "Oyster Creek Emergency Preparedness Program".
- 6.2 2000-PLN-1300.01, OCNGS Emergency Plan.
- 6.3 Procedure 107, "Procedure Control".
- 6.4 Procedure OEP-SUR-1310.09, "Emergency Communications Surveillance".
- 6.5 Procedure OEP-ADM-1319.02, "Emergency Response Facility and Equipment Maintenance".
- 6.6 Procedure 103, "Station Document Control".
- 6.7 Procedure 130, "Nuclear Safety Review".

7.0 EXHIBITS

- 7.1 Exhibit 1 - Sample Procedure Change/Information Notice.
- 7.2 Exhibit 2 - Sample Required Reading Sign-Off Sheet.
- 7.3 Exhibit 3 - Sample EPS Training Session Documentation.

Title

**EMERGENCY PREPAREDNESS SECTION ADMINISTRATION**

Revision No.

**4**

EXHIBIT 1

EXAMPLE

Sample Procedure Change/Information Notice

**Procedure Change Notice**

Procedure #: \_\_\_\_\_ Rev: \_\_\_\_\_ Date: \_\_\_\_\_

Procedure Name:

Duty Roster Positions affected: \_\_\_\_\_

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

Brief description of change: \_\_\_\_\_

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

Title

**EMERGENCY PREPAREDNESS SECTION ADMINISTRATION**

Revision No.

**4**

EXHIBIT 2

SAMPLE REQUIRED READING SIGN-OFF SHEET

<u>Document</u>	<u>Initial</u> <u>Initial/ Date</u>
10 CFR 50.47 and 10 CFR 50 Appendix E	/
NUREG 0654	/
Corporate Emergency Preparedness Policy AP-EP-1	/
Emergency Preparedness Section Procedures	/
OCNGS Emergency Plan	/
Oyster Creek Emergency Plan Implementing Document	/
Required Reading Complete	/
Reviewed by Surveillance Coordinator	/

Name: \_\_\_\_\_

Title

**EMERGENCY PREPAREDNESS SECTION ADMINISTRATION**

Revision No.

**4**

EXHIBIT 3

SAMPLE EPS TRAINING SESSION DOCUMENTATION

Date of Session: \_\_\_\_\_

Topics Covered: \_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

Personnel in Attendance: \_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_  
Signature of Session Facilitator

\_\_\_\_\_  
Date

Title <b>Oyster Creek Emergency Preparedness Program</b>		Revision No. <b>7</b>
Applicability/Scope Applies to work at Oyster Creek		Responsible Office Emergency Preparedness
This document is within QA plan scope <u>X</u> Yes ___ No Safety Reviews Required <u>x</u> Yes ___ No		Effective Date Date of Sale

Prior Revision 6 incorporated the following Temporary Changes:

N/A

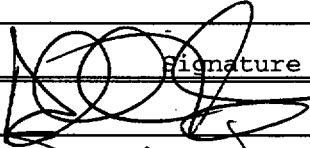
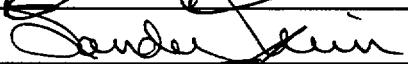

This Revision 7 incorporates the following Temporary Changes:

N/A

List of Pages (all pages rev'd to Rev. 7)

1.0 to 20.0  
E1-1 to E1-4  
E2-1 to E2-2  
E3-1  
E4-1 to E4-2  
E5-1  
E6-1  
E7-1  
E8-1  
E9-1

**NON-CONTROLLED  
This Document Will Not  
Be Kept Up To Date  
DCC Oyster Creek**

	Signature	Concurring Organization Element	Date
Originator		Emergency Planner	1/5/00
Concurred By		Director Ops. & Maint. OC	1-5-00
Approved By		Emergency Preparedness Mgr, OC	1/11/00

Title

**Oyster Creek Emergency Preparedness Program**

Revision No.

**7**DOCUMENT HISTORY

REV	DATE	ORIGINATOR	SUMMARY OF CHANGE
12	02/92	R. Sullivan	Update EP Admin Procedure to reflect changes in the EP Program.
13	05/92	R. Sullivan	Revise section 5.6.3.1 to allow short term change of duty without written notification to security.
14	07/92		Telephone number changes.
15	03/93		Make Exhibits 8 & 9 agree with Emergency Planning update staffing responsibilities.
16	06/94	A. Smith	Update NRC telephone number, also Duty Roster.
17	10/94	A. Smith	Delete Parsippany Field Monitoring teams.
18	01/95	A. Smith	Clarify on shift minimum staffing requirements. Supplemental positions added to duty roster at Mgt. discretion.
19	03/95	A. Smith	Delete team & position number from teleclerk announcement & replace with nine digit SS #.
0	01/96	A. Smith	Correct titles, clarify shift security supervisor in ref. to weekly comm. test. Revises procedure number to OEP series. Also clarify drill admin. and include action item training system. Rev. bars not applicable. Major rewrite.
1	07/96	T. Blount	Update phone numbers for Plant Ops Manager and INPO.
2	10/96	T. Blount	Clarify what a Supplemental position holder can do regarding filling an Essential position. Removed some Supplemental positions. Changed Duty Roster issuance frequency to as determined by EP Mgr. or Annually whichever is sooner.
3	12/97	P. Hays	Incorporate steps for computer configuration controls.
4	05/98	P. Hays	Updates Exhibits 2 & 8 to reflect recent changes in two duty roster staffing. Adds note for respirator glasses requirement. Changes Exhibit 9A to reflect recent changes in computer controls.
5	10/98	A. Smith	Change reference to action items and use "CAP's" as tracking system. Add information technologies to the notifications on the Drill Admin. form.
6	04/99	A. Smith	Indicate Safety Review required on cover page, reference new E-Plan #, ERO Test notification to weekly from every Thursday.
7	DOS	A. Smith	Change reference from GPU to OCNCS, reflect Monday for roster change of duty, add Lotus Notes for D.R. change of duty, update ERO to reflect PI Pos.



Title

**Oyster Creek Emergency Preparedness Program**

Revision No.

**7****1.0** PURPOSE

This procedure defines the Oyster Creek Emergency Preparedness Program requirements and maintenance.

**2.0** APPLICABILITY/SCOPE

2.1 This procedure applies to Oyster Creek Division and all Support Divisions in their activities at Oyster Creek relating to emergency preparedness.

2.2 This procedure delineates Oyster Creek responsibilities as assigned in 2000-PLN-1300.01, OCNGS Emergency Plan.

**3.0** DEFINITIONS

3.1 Emergency Duty Roster - Consists of all Initial Response Emergency Organization (IREO) and Emergency Support Organization (ESO) personnel.

3.2 Oyster Creek Emergency Plan Implementing Document - This document shall include Emergency Plan Implementing Procedures and should include Emergency Preparedness Administrative Procedures.

3.3 Oyster Creek Emergency Preparedness Program - The program implemented by Oyster Creek Division, Support Divisions, and the Oyster Creek Emergency Preparedness Section to maintain a high level of emergency preparedness.

3.4 Essential Positions - Consist of those duty roster positions (personnel) described in the Emergency Plan. These positions are presented in Exhibit 7.

3.4.1 Essential positions also include the On-Shift Personnel required to meet the minimum staffing requirements of Table 5 of 2000-PLN-1300.01, OCNGS Emergency Plan.

Title

**Oyster Creek Emergency Preparedness Program**

Revision No.

**7**

3.5 Supplemental Positions - Consist of those duty roster positions (personnel) not required by the Emergency Plan.

3.5.1 Supplemental positions shall be trained as a minimum in accordance with Oyster Creek Emergency Plan Section 8.2.1, Step 1.

3.5.1.1 Supplemental positions should receive training in accordance with the Emergency Preparedness Training Program description 6200-PGD-2685, as a good practice, but it is not required.

3.5.2 Supplemental positions may fulfill the duties and responsibilities of an essential position if their training and qualification meet the minimum requirements as applicable for that position in Exhibit 4.

3.5.3 The supplemental positions are identified on the duty roster by the mid position number of 5 or higher in the three digit "position" identifier (e.g.; X5X, X6X, X7X, etc.). These positions are listed in Exhibit 8.

#### 4.0 RESPONSIBILITIES

4.1 Directors, Managers and Supervisors shall:

4.1.1 Provide assistance in scenario preparation by developing supporting data and/or ensuring technical accuracy and credibility as requested.

4.1.2 Provide drill observers and controllers to assist in the conduct and evaluation of emergency drills and exercises as needed.

4.1.3 Nominate individuals from their organization for Initial Response Emergency Organization and Emergency Support Organization positions, as specified in Exhibit 2, Emergency Duty Roster Staffing Responsibilities, to fill current or projected vacancies on the Emergency Duty Roster.

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- 4.1.3.1 Individuals currently holding a position on the Emergency Duty Roster may be trained for other Roster positions but should not be assigned more than one position on the duty roster.
- 4.1.3.2 Individuals must complete initial training/retraining for the Roster position to which they are nominated prior to being assigned to the Roster unless a valid exception is documented in accordance with the Training Program.
- 4.1.4 Monitor their personnel's progress in achieving and maintaining proficiency on Emergency Preparedness assignments. This should be recognized in Employee Performance reviews.
- 4.1.5 Ensure that they and their personnel attend scheduled Emergency Preparedness training.
- 4.1.6 When necessary submit "Drill Exemption List" Exhibit 6, to the Director - Operations & Maintenance (or designee) for approval at least twenty four (24) hours prior to the Drill date.
- 4.2 Office of the Director - OC or designee shall be the final approver of all Emergency Duty Rosters.
- 4.3 The Training & Education Director - OC shall:
  - 4.3.1 Schedule the training and retraining of Emergency Duty Roster personnel to maintain personnel training requirements current and provide timely notification of necessary training to appropriate personnel.
  - 4.3.2 Develop, implement and maintain the Oyster Creek Emergency Preparedness Training Program within the guidance set forth in Reference 6.1 and 6.5.

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4.3.3 Maintain documentation of all Emergency Preparedness classroom training and provide a report to Emergency Preparedness quarterly, and/or prior to roster publication.

4.4 Facility Coordinators and positions on the Duty Roster identified as Group Leaders are responsible to assist in the conduct of OJT Drills for personnel assigned to their facility.

4.5 The Emergency Preparedness Manager - OC is responsible for the overall development, implementation and maintenance of the Oyster Creek Emergency Preparedness Program. The Emergency Preparedness Manager - OC shall:

4.5.1 Plan, coordinate, implement and evaluate drills and exercises.

4.5.2 Direct the issuance of an Emergency Duty Roster and a Confidential Telephone Information listing when the Mgr. determines sufficient Org./Personnel changes warrant revision or at least annually whichever is more frequent. The Roster should be reviewed by the Emergency Prep Manager, approved by the Duty Roster Coordinator & Senior Site Management.

4.5.3 Direct the issuance of an Initial Response Emergency Organization Duty Schedule and a Drills/Exercise Schedule annually.

4.5.4 Review/concur on the Emergency Preparedness Training Program Description and related lesson plans and exams for technical accuracy and conformance with the Emergency Plan.

4.5.5 Maintain the Emergency Preparedness Surveillance Program and accompanying documentation. The Program includes, but is not necessarily limited to:

4.5.5.1 Installed equipment operability and performance testing.

4.5.5.2 Reviews and audits of Emergency Response Facilities and equipment readiness.

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- 4.5.5.3 Periodic updating of Letters of Agreement and emergency phone numbers.
- 4.5.5.4 Ensuring the technical adequacy of Emergency Preparedness Section staff personnel.
- 4.5.6 Review the Oyster Creek Emergency Preparedness Program to ensure satisfactory overall performance.
- 4.5.7 Track to completion "CAP" items related to emergency preparedness.
- 4.5.8 Control and revise Emergency Plan implementing procedures to reflect current information consistent with the latest revisions to the Emergency Plan in accordance with Emergency Preparedness Department Procedure System.
- 4.5.9 Maintain and program as necessary the Emergency Response Organization Notification system. Review data derived from notification system tests and take corrective action for unsatisfactory results.
- 4.5.10 Perform critiques of actual implementations of the Emergency Plan (eg., any declared emergency).
- 4.6 Personnel assigned to the Initial Response and Emergency Support Organization Duty Roster are responsible to:
  - 4.6.1 Ensure that their assigned radio pager is operable and turned on when on duty and take positive action to replace their pager if it fails.
  - 4.6.2 Ensure that they are available to report for duty in accordance with the Fitness For Duty Policy within the required time during the period when they are on duty. Obtain a qualified replacement in accordance with Section 5.6.3 to carry out the assigned duties and responsibilities when any situation prevents him/her from performing his/her duty assignment on a short-term basis.

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- 4.6.3 Call the OCNCS Teleclerk at (609) 971-4935 any time their assigned radio pager activates by a group code and follow the instructions provided by the Teleclerk message. This action does not include responding to the Teleclerk for the "Change of Duty" activation - (Monday morning usually).

**NOTE**

If the Teleclerk cannot be reached, or there is a discrepancy between pager message code and teleclerk message, report to your assigned ERF.

- 4.6.4 Acknowledge the phone message provided by the Teleclerk System, if contacted at home, and follow the instructions provided by the Teleclerk System.
- 4.6.5 Ensure that the Emergency Preparedness Section has their current telephone numbers (office and home).
- 4.6.6 Maintain respirator and training qualifications.

**NOTE**

Personnel in positions that require the use of respirators and require eye glasses must have the appropriate respirator eye glasses available at all times when on duty.

- 4.7 Shift Security Supervisor - OC should conduct a weekly test of the Emergency Response Organization Notification system during the 0700-1500 hours shift to include:
- 4.7.1 The Emergency Preparedness radio pagers
- 4.7.2 The Teleclerk System
- 4.8 Key members of the IREO and ESO should perform in, or observe a drill/exercise every 18 months ( $\pm$  25%). These members include: Emergency Director, OSC Coordinator, Emergency Support Director, and the Group Leader R & EC. At the discretion of EP Management key personnel who do not meet this criteria may be removed from the duty roster until the criteria is met.

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**5.0** PROCEDURE

The Oyster Creek Emergency Preparedness Program consists of the following elements:

5.1 Development, implementation and maintenance of the Emergency Plan Implementing Document - This document, as defined in Section 3, implements the Oyster Creek Emergency Preparedness Program.

5.2 Emergency Preparedness Training Program - This program is governed by Reference 6.1 and conducted in accordance with the Oyster Creek Training Department Procedures.

5.3 Emergency Drills and Exercises

5.3.1 An exercise is an evaluated demonstration of major portions of emergency response capabilities. An exercise tests the integrated capability of the emergency response organization to identify weaknesses that could affect the response to an actual emergency. Exercises usually involve a large radiological release affecting the off-site populace and usually involve the full or partial participation of federal, state, and local agencies. (ref: INPO 88-019)

5.3.2 A drill is an evolution conducted to develop and maintain key emergency response skills. Drills are usually narrower in scope than exercises and can be used to train a specific area of response such as fire response, medical response, or interagency communications. Drills can also be used to train for integrated response of the emergency organization. Drills should be used to practice and promote a high state of readiness and teamwork within and between on-site facilities and disciplines. Drills can be used to correct deficiencies identified in exercises. (ref: INPO 88-019)

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5.3.3 Periodic drills and exercises will be conducted in order to assess the state of emergency preparedness. The prime objective of this form of training is to verify the emergency preparedness of all participating personnel, organizations, and agencies. Each drill or exercise will be conducted to:

(1) ensure that the participants are familiar with their respective duties and responsibilities, (2) verify the adequacy of the Emergency Plan and the methods used in the Emergency Plan Implementing Documents, (3) test communications networks and systems, (4) check the availability of emergency supplies and equipment, and (5) verify the operability of emergency equipment. In addition, repair and damage control shall be included in one major drill/exercise on an annual basis. (ref: OCNGS E-Plan)

5.3.3.1 Medical Emergency Drill

Medical Drill shall be conducted annually. The drill will involve the participation of local medical support personnel and organizations (e. g., physician, ambulance service, hospital), and will involve simulated (injured) contaminated personnel.

5.3.3.2 Fire Emergency Drill

Fire drills shall be conducted in accordance with the site Fire Protection Plan.

5.3.3.3 Radiological Monitoring Drill

Radiological Drill shall be conducted annually. The drill shall include collection and analysis of all appropriate sample media for both onsite and offsite locations.



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5.3.3.4 Radiological Controls Drill

At least one drill shall be conducted semi-annually. The drill will involve response to, and analysis of, simulated elevated airborne and liquid samples and direct radiation measurements. The drill shall include analysis of inplant liquid samples with simulated elevated activity levels.

5.3.3.5 Hazardous Material Spill Drill

Hazardous Material Spill Drills shall be conducted as required by the OCNGS Environmental Control Plan.

5.3.3.6 Biennial Exercises

- a. The OCNGS Emergency Plan shall be tested biennially to include a scenario with a Site Area or General Emergency. State and local government emergency plans will be included with full or partial participation by state and local governments within the Plume Exposure Pathway EPZ as required by federal regulations.
- b. Conduct of the exercise shall include mobilization of onsite and offsite emergency response personnel and resources in order to verify their capability to respond to an emergency. Communications with State and County agencies will be included. The scenario will be varied from year to year such that all major elements of these plans and preparedness organizations are tested within a six year period. Once within each six year period an exercise will be started in accordance with NRC and FEMA objectives for off-normal hours.

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- 5.3.4 "Hands-On/OJT" Drills will be conducted when it is determined additional training or experience will enhance an individual, selected group, facility staff or the ERO's ability to respond to emergency conditions. This session may take the form of a walk-through or a table-top discussion of an evolution/operation. This type of drill is distinct from those described in Section 5.3.3 in that the focus is limited and will generally not include an integrated response.
- 5.3.5 Actual Emergency Plan Activations may be credited in place of selected drills if the Emergency Preparedness Manager deems it appropriate. Generally an Alert or higher level emergency may be substituted for a Drill. Such events may also replace an Exercise with NRC approval.
- 5.3.6 Drill Controllers and Observers will be selected from the Plant and supporting divisions based on their specialized expertise. Selection will be based on Company Organizational Position and/or Emergency Response Organization qualifications.
- 5.3.7 Drill attendance may be conducted by the facility drill controller/observer. Attendance sheets should be signed by the participants for drill credit. Attendance sheets should be returned to the Emergency Preparedness Section for documentation.
- 5.3.8 Personnel may be exempted from drill participation by submitting a copy of a completed Exhibit 6. This should be submitted at least twenty-four (24) hours prior to the scheduled drill date. Should a member of the Team/Priority participating in the Drill require exemption, the Director, Manager, or Supervisor requesting the exemption shall make all necessary arrangements for coverage of that position during the drill. The Drill Exemption List must be approved by the Director, Operations & Maintenance - O.C. or his designee. Completed copies shall be sent to Shift Security Supervisor's Office - Main Gate and Emergency Preparedness Office.

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5.3.9 NRC Administrative Letter 94-16 (dated November 30, 1994) provides revised guidance concerning NRC Core Inspection Program for Annual E.P. exercises.

5.3.9.1 The letter revised the inspection frequency for performing specific inspection modules (Evaluation of Exercises for Power Reactors and Review of Exercise Objectives and Scenarios for Power Reactors) from annual to biennial.

5.3.9.2 An Annual exercise will be conducted in accordance with 10CFR50 App. E and submittal of exercise scenarios and objectives will be done biennially, in accordance with IN-94-16.

5.3.10 All drills and exercises will be documented using Exhibit 1. Any items which do not pertain to a particular exercise or drill should be noted "N/A".

5.4 Emergency Preparedness Surveillance Program - Included in the Oyster Creek Emergency Preparedness Procedure Manual as the OEP-SUR-1310 series.

5.5 Emergency Response Facilities and Equipment Readiness - These facilities and associated equipment will be maintained in accordance with OEP-ADM-1319.02, Emergency Response Facilities and Equipment Maintenance.

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5.6 Emergency Response Organization - The maintenance of the Emergency Response Organization will be as follows:

5.6.1 Nomination and approval process.

5.6.1.1 Responsible Directors, Managers and Supervisors as listed in Exhibit 2, Emergency Duty Roster Staffing Responsibilities, shall nominate individuals from the OCNCS organization to fill current or projected vacancies in the Emergency Duty Roster.

1. The nominating Director, Manager or Supervisor shall ensure that nominated individuals meet the criteria outlined in Exhibit 4, Qualification Requirements for Essential Personnel.

2. All candidates shall be nominated using the Emergency Duty Roster Change, Form OEP-ADM-1319.01 (Exhibit 5) or similar form.

3. The Emergency Duty Roster Change shall be forwarded to Emergency Preparedness.

5.6.1.2 The Technical Training Manager-OC or designee shall review the nominated individual's Emergency Preparedness training to ensure proper completion.

1. If the nominee has not completed Emergency Preparedness training, the appropriate training should be scheduled in a timely manner.

2. Once training has been completed the Emergency Duty Roster Change shall be signed and forwarded to the Emergency Preparedness Duty Roster Coordinator.

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- 5.6.1.3 The Emergency Preparedness Manager or designee shall receive Emergency Duty Roster Changes and review them to the extent necessary for his approval.
- 5.6.1.4 The Emergency Duty Roster shall be submitted to the Office of the Director, Oyster Creek or designee for approval. Upon approval the Emergency Duty Roster will be returned to and disseminated by the Emergency Preparedness Department.
- 5.6.1.5 All completed Emergency Duty Roster Change forms shall be retained in OC Emergency Preparedness Section files for two years from the date of approval.
- 5.6.1.6 Personnel with lapsed qualifications which are not renewed shall be removed from the Duty Roster. Reinstatement shall be in accordance with 5.6.1.
- 5.6.2 Emergency Duty Rosters and Schedules
- 5.6.2.1 The Emergency Duty Roster shall be revised, published and distributed when the EP Mgr. determines sufficient organization or personnel changes have occurred that a revised roster is required or annually. The Tele-Clerk Notification System will be updated as changes occur, in a timely fashion.
- 5.6.2.2 Periodically a Confidential Telephone Information listing will be published and distributed. This phone listing will be distributed to the following:
- Shift Security Supervisor's Office
  - Emergency Operations Facility
  - Emergency Control Center
  - Technical Support Center

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5.6.2.3 An Emergency Organization Duty Roster Schedule and a Drills/Exercise Schedule will be published and distributed with the Emergency Duty Roster.

5.6.3 Duty Roster/Schedule Changes

- 5.6.3.1 A short term change (exchange of duty for less than 72 hours) to the Initial Response Emergency Organization or Emergency Support Organization (IREO or ESO) Duty Schedule will be accomplished by having the qualified relief carry his/her pager and notifying the Shift Security Supervisor, in writing of the exchange of duty if time permits. If no written notification is received by Security, the on-call duty roster member will be responsible to ensure the position is filled.
- 5.6.3.2 A long term change (exchange of duty for 72 hours or more) to the IREO or ESO Duty Schedule will be accomplished by the duty assignee submitting a notice similar to Exhibit 3, Notice of Temporary Change of Duty, or via Lotus Notes EP Duty Roster Exchange to the Emergency Preparedness Manager-OC with a copy to the Security Manager-OC preferably one week in advance of the change. The notice will be retained until the change is no longer effective.

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NOTE

A Lotus Notes Application is available to electronically submit a "Notice of Temporary Change of Duty". This is the preferred method of exchanging duty.

5.6.3.3 Personnel changes to the Emergency Duty Roster will be made by submitting a notice similar to the Emergency Duty Roster Change form and processed according to Section 5.6.1. Appropriate measures should be taken by the responsible managers to ensure all positions remain fully staffed.

5.6.4 Initial Response Emergency Organization (IREO) Team Duty Period

5.6.4.1 The normal period of on-call duty for the Initial Response Emergency Duty Roster Teams is 0800 hours Monday to 0800 hours Monday of the following week. Exceptions to this period are noted on the annual published duty schedule. During this period IREO members on duty shall be fit for duty in accordance with the employee Fitness for Duty Program (Reference 6.4). The OCNGS Duty Roster Schedule identifies duty periods for all teams.

5.6.5 Emergency Support Organization Team Duty Period

5.6.5.1 The ESO will follow duty rotation in accordance with Section 5.6.4.1. During the duty period these teams shall comply with the Employee Fitness for Duty program (Reference 6.4). The OCNGS Duty Roster Schedule identifies duty periods for all teams.

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5.6.6 Weekly Notification System Test

5.6.6.1 A weekly Emergency Response Organization

Notification System test should be performed by Security personnel weekly by activating radio pagers and the Teleclerk.

5.7 Corrective Action Process (CAP) - Issues related to the conduct of the Emergency Preparedness Program should be entered into the CAP System. A self assessment of EP CAP items should be conducted each year not to exceed 15 months. The assessment should look for trends as described in 1000-ADM-7216.01.

5.8 Control of Software

5.8.1 Software developed or maintained by Emergency Preparedness shall be protected from unauthorized modification by:

5.8.1.1 Limiting distribution of uncompiled source code to those specifically authorized to modify the code.

5.8.1.2 Maintaining backup copies of source code

5.8.1.3 Maintaining backup copies of unprotectable external data.

5.8.1.4 Periodically creating backup copies of accumulated results data.

5.8.1.5 Software control is in accordance with 1000-ADM-1230.10 Master List.

5.8.2 Software shall have a specified responsible individual, who will:

5.8.2.1 Be a point of contact for user comments.

5.8.2.2 Notify users of errors or omissions.

5.8.2.3 Coordinate modification.

5.8.2.4 Ensure distribution of revisions to authorized users.

5.8.3 In house software shall be tested:

5.8.3.1 Before initial distribution.

5.8.3.2 After revision.



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5.8.3.3 Such test result documentation may be flexible based on the nature of the software or degree of revision.

5.8.3.4 Documentation for other than 'non-substantive changes' shall be permanent (memo, formal calculation when applicable, etc.). Use Exhibit 9 Software Configuration Control Change Request. Additional supporting documentation should be attached.

**NOTE**

Changes which could reasonably be expected to affect record retention or numerical accuracy shall be considered substantive. EXAMPLE: a change which adds the date to a printout may be non-substantive, a change which alters global results data file structures may be substantive even though no actual calculations are modified.

5.8.4 Vendor Supplied Software shall be tested:

5.8.4.1 For operability on available equipment.

5.8.4.2 For accuracy of results.

**6.0 REFERENCES**

- 6.1 OCNCS Emergency Plan, 2000-PLN-1300.01
- 6.2 Emergency Preparedness Procedure, OEP-ADM-1319.02, Emergency Response Facilities and Equipment Maintenance
- 6.3 Oyster Creek Emergency Plan Implementing Document
- 6.4 Employee Fitness for Duty Procedure/Drug and Alcohol 1000-ADM-2002.04.
- 6.5 2612-PGD-2685 Emergency Preparedness Training Program.
- 6.6 INPO Document - 88-019 - Emergency Preparedness Drill and Exercise Manual.
- 6.7 Corrective Action Process 1000-ADM-7216.01.
- 6.8 10CFR50
- 6.9 1000-ADM-1230.10, Computer Systems Control

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7.0 EXHIBITS

- 7.1 Exhibit 1, Example Drill Administrative Guide Form
- 7.2 Exhibit 2, Emergency Duty Roster Staffing Responsibilities
- 7.3 Exhibit 3, Example Notice of Temporary Exchange of Duty
- 7.4 Exhibit 4, Requirements for Emergency Duty Roster Personnel
- 7.5 Exhibit 5, Example Emergency Duty Roster Change
- 7.6 Exhibit 6, Drill Exemption List
- 7.7 Exhibit 7, Emergency Response Organization Essential Positions
- 7.8 Exhibit 8, Emergency Response Organization Supplemental Positions
- 7.9 Exhibit 9, Software Configuration Control Change Request

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(EXAMPLE)  
EXHIBIT 1  
DRILL ADMINISTRATIVE GUIDE FORM

1. Classification and Scheduling

The Emergency Preparedness Manager or his designee shall circle the appropriate title below and note the date and time the drill is to be held.

	<u>TIME</u> / <u>DATE</u>	<u>DATE</u> / <u>INITIALS</u>
• Drill	_____ / _____	
• Dress Rehearsal	_____ / _____	
• Annual Exercise	_____ / _____	_____ / _____

2. Scenario Development

The Emergency Preparedness Manager or his designee shall be responsible for the drill scenario preparation as well as obtaining scenario review from personnel listed below.

Scenario # \_\_\_\_\_ Revision \_\_\_\_\_ / \_\_\_\_\_

SRO (Name) \_\_\_\_\_

RAD CON OR RAD ENGINEERING SUPERVISOR (Name) \_\_\_\_\_

OTHER REVIEW \_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

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EXHIBIT 1 (Continued)DRILL ADMINISTRATIVE GUIDE FORM3. Outside Agency Notification\_\_\_\_\_/\_\_\_\_\_  
DATE INITIALS

The Emergency Preparedness Manager or his designee is responsible for coordinating efforts with outside participating emergency personnel and organizations and notify the agencies indicated below;

a. New Jersey State Police Emergency Operations Center  
(609) 882-4201 \_\_\_\_\_/\_\_\_\_\_b. Ocean County Department of Emergency Services (908)  
341-3451 \_\_\_\_\_/\_\_\_\_\_c. NRC Operations Center, Rockville, Md.  
(301) 816-5100  
(If no answer call (301) 951-0550) \_\_\_\_\_/\_\_\_\_\_(Specify  
Name) \_\_\_\_\_

d. Resident NRC Inspector (609) 971-4978 \_\_\_\_\_/\_\_\_\_\_

e. Local Fire Companies (at the discretion  
of E. P. Mgr.) \_\_\_\_\_/\_\_\_\_\_f. Community Medical Center [Nursing Services Supv.  
(908) 240-8000] (at discretion of E.P. Mgr.) \_\_\_\_\_/\_\_\_\_\_g. Southern Ocean County Hospital [Nursing Service  
Supervisor (609) 597-6011] (at discretion  
of E.P. Mgr.) \_\_\_\_\_/\_\_\_\_\_

h. Rescue Squads (at discretion of E.P. Mgr.) \_\_\_\_\_/\_\_\_\_\_

(Specify  
Which) \_\_\_\_\_

i. INPO Emergency Ops Center (800) 321-0614 \_\_\_\_\_/\_\_\_\_\_

j. Ocean County Sheriff's Comm. Center  
(908) 349-2010 or  
(908) 349-2094 \_\_\_\_\_/\_\_\_\_\_

k. Lacey Township Police Dept. (609) 693-6636 \_\_\_\_\_/\_\_\_\_\_

l. Ocean Township Police Dept. (609) 693-4007 \_\_\_\_\_/\_\_\_\_\_

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DATE / INITIALS

m. Other \_\_\_\_\_

(Specify) \_\_\_\_\_

4. Information Technologies Reading Help Desk (Ext. 5555) \_\_\_\_\_

5. Plant Notificationa. Office of the Director, Oyster Creek  
(Ext. 4814) \_\_\_\_\_b. Plant Operations Director - O.C.  
(Ext. 4119) \_\_\_\_\_c. Site Security Manager  
(Ext. 4949) \_\_\_\_\_d. Public Affairs  
(Ext. 4020) \_\_\_\_\_6. Observers

The Emergency Preparedness Manager is responsible for assigning observers to monitor personnel and areas involved in the drill. All plant and supporting departments are responsible for providing technically qualified observers to assist in drill observation and evaluation.

a. Assign all observers. \_\_\_\_\_

b. Publish memo providing date, times &amp; locations to all observers. \_\_\_\_\_

7. Pre-Drill Meeting

Meet with all observers and other non-player personnel involved with the drill to brief them on scope, sequence of events and responsibilities.

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EXHIBIT 1 (Continued)

DRILL ADMINISTRATIVE GUIDE FORM

DATE / INITIALS

8. Shift Participation

The operating shift(s) actually tested in the drill/exercise should be listed.

9. Post Drill Requirements

Upon completion of the drill, the Emergency Preparedness Manager is responsible for meeting with all observers and holding a critique to review and discuss deficiencies and corrective actions.

- a. Meet with all observers to review their significant comments, if possible.
- b. Hold drill critique to review drill with involved personnel.
- c. Collect signed Observer comments as available.
- d. Collect Drill Attendance Forms, if used.

10. CAP Process

The Emergency Preparedness Manager or his designee is responsible for developing CAP's based upon drill recommendations.

- a. Develop Action Items.

11. Documentation and Routing of Drill and Critique

Results

The Emergency Preparedness Manager or his designee is responsible for ensuring that all documents generated as a result of the drill are collected and forwarded to appropriate personnel and/or departments.

- a. Prepare and distribute Drill or Exercise Critique memo.
- b. Forward the completed drill packet to Document Control. Items included in the Drill Packet are the following:
  - 1. List of Observers
  - 2. Drill Critique
  - 3. Completed Drill Administrative Guide Form (Exhibit 1)
- c. Forward Drill Attendance Forms to Training Administrative Support

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**7**(EXAMPLE)  
EXHIBIT 2Emergency Duty Roster Staffing ResponsibilitiesDuty Roster PositionResponsibility for Staffing

## EMERGENCY CONTROL CENTER

101 Operations Coordinator	Director - OC
102 ECC Communications Coordinator	Director - OC
103 ECC Communicator	Director - OC
104 ECC Communicator	Director - OC

## TECHNICAL SUPPORT CENTER

201 Emergency Director	Director - OC
202 ED Assistant	Director - OC
203 Rad Assessment Coordinator	Rad Con Director - OC
204 Rad Engineering Support	Rad Con Director - OC
205 TSC Coordinator	Dir. Equip. Reliability - OC
206 TSC Engineer (Mech)	Dir. Equip. Reliability - OC
207 TSC Engineer (Elec)	Dir. Equip. Reliability - OC
208 TSC Engineer/I & C	Dir. Equip. Reliability - OC
210 Core Engineer	Dir. Equip. Reliability - OC
250 TSC Communications Coordinator	Dir. Equip. Reliability - OC
253 Tech Assistant	Director - OC
658 Computer Eng.	Dir. Equip. Reliability - OC

## OPERATIONS SUPPORT CENTER

301 OSC Coordinator	Plant Maintenance Director - OC
302 Emergency Maintenance Coordinator	Plant Maintenance Director - OC
303 Rad Control Coordinator	RH&S Director - OC
304 Chemistry Coordinator	Director - OC
305 Medical Representative	Admin., Health Services - OC
306 Security Coordinator	Security, Mgr. - OC
350 Maintenance Team Coordinator	Plant Maintenance Director - OC
351 Emergency Maintenance Electrical	Plant Maintenance Director - OC
353 OSC Communications Coordinator	Plant Maintenance Director - OC
354 OSC Communicator (Operations)	Plant Maintenance Director - OC
355 OSC Communicator (Plant Status)	Plant Maintenance Director - OC

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(EXAMPLE)

EXHIBIT 2Emergency Duty Roster Staffing ResponsibilitiesDuty Roster PositionResponsibility for Staffing

## OFF-SITE RADIOLOGICAL MONITORING TEAMS

450 Rad/Env Survey Team A Leader	Mgr., Environmental Controls - OC
451 Rad/Env Survey Team A Assistant	Mgr., Environmental Controls - OC
452 Rad/Env Survey Team B Leader	Mgr., Environmental Controls - OC
453 Rad/Env Survey Team B Assistant	Mgr., Environmental Controls - OC

## EMERGENCY ASSEMBLY AREA

501 Emergency Assembly Area Coordinator	Mgr., Material Services
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## EMERGENCY OPERATIONS FACILITY

601 Emergency Support Director	Director - OC
602 ESD Assistant	Director - OC
603 Group Leader R&EC	Director - RHIS
604 Public Information Representative	Manager - Communications
605 EOF Communications Coordinator	Emergency Preparedness Mgr. - OC
606 EOF Communicator	Emergency Preparedness Mgr. - OC
607 EOF Communicator	Emergency Preparedness Mgr. - OC
608 Tech Support Representative	Dir. Equip. Reliability - OC
609 Group Leader - Administrative Support	Director - OC
610 Emergency Preparedness Representative	Emergency Preparedness Mgr. - OC
612 P.I. Tech Rep/Com	Mgr., Communications
650 Tech Support Staff	Dir. Equip. Reliability - OC
651 Tech Support Staff	Dir. Equip. Reliability - OC
652 Tech Support Staff	Dir. Equip. Reliability - OC
653 Administrative Support Staff	Director - OC
654 Material Management Coordinator	Mgr., Material Services

## ENVIRONMENTAL ASSESSMENT COMMAND CENTER

801 Environmental Assessment Coordinator	RH&S Director - OC
802 Met/Dose Assessment Coordinator	RH&S Director - OC

## JIC

910 Media Center Lead --Com	Mgr., Communications
911 Media Ct. Advisor/Communicator	Mgr., Communications
912 PI Tech Rep - Com	Mgr., Communications
913 PI Rep - Com	Mgr., Communications
952 JIC Admin./Communicator	Mgr., CommunicationS



Title

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EXHIBIT 3

Notice of Temporary Exchange of Duty

Subject: IREO/ESO Exchange of Duty  
(circle one)

To: Emergency Preparedness Manager - OC  
Security Manager - OC

I, \_\_\_\_\_, am assigned to the Emergency  
Name

Response Organization Duty Roster, Position Number \_\_\_\_\_, as

a(n) \_\_\_\_\_.  
Assignment

I will be unable to fulfill my on-call assignment during the period  
\_\_\_\_\_ to \_\_\_\_\_ and have arranged with

\_\_\_\_\_  
Name Home Telephone No. Office No.

who is fully qualified to perform my duties during this period.

\_\_\_\_\_  
Signature

\_\_\_\_\_  
Title

Signature:

\_\_\_\_\_  
Person Accepting Duty

Date: \_\_\_\_\_

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(EXAMPLE)  
EXHIBIT 4

QUALIFICATION REQUIREMENTS FOR ESSENTIAL PERSONNEL

I. On-Shift Emergency Organization

- A. Satisfactorily complete and maintain required skills training and possess operators license, as appropriate, for assigned position.
- B. Satisfactorily complete and maintain Emergency Preparedness Training Program requirements for position assigned.
- C. Satisfactorily complete and maintain respirator qualification in accordance with Plant requirements.
- D. Satisfactorily complete and maintain radiation worker training (Level II).
- E. Must be active in the dosimetry system (i.e., TLD assigned and current WBC or record).

II. Initial Response Emergency Organization (IREO)

- A. Satisfy the prerequisites for selection and assignment to the specific emergency response position to which assigned, as specified in the Emergency Plan.
- B. Must satisfy 1 hour response time requirement.
- C. Satisfactorily complete and maintain Emergency Preparedness Training Program requirements for position assigned in the Initial Response Organization.
- D. Satisfactorily complete and maintain respirator qualification in accordance with Plant requirements.
- E. Satisfactorily complete and maintain radiation worker training (Level II).
- F. Must be active in the dosimetry system (i.e., TLD assigned and current WBC on record).

\*NOTE

Items D, E, and F above are not applicable to Emergency Assembly Area Coordinators.

\*NOTE

Exemptions to IC and II D may be granted by the Plant Director with EP concurrence from the Emergency Preparedness Manager if loss of the individual's expertise may lower the effectiveness of the EP Program. However, the individual will not be permitted to enter an area where respirators are required.

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(EXAMPLE)  
EXHIBIT 4  
(continued)

QUALIFICATION REQUIREMENTS FOR ESSENTIAL PERSONNEL

III. Emergency Support Organization (ESO)

- A. Satisfy the prerequisites for selection and assignment to the specific emergency response position to which assigned, as specified in the Emergency Plan.
- B. Satisfactorily complete and maintain Emergency Preparedness Training Program requirements for the position assigned in the Emergency Support Organization.

NOTE

All essential personnel assigned an emergency response role requiring response onsite during an emergency shall be respirator qualified. In addition, all such personnel shall be active in the dosimetry system (i.e., TLD assigned and current WBC on record). This note applicable to Sections I and II above and not III.

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EXHIBIT 5

Emergency Duty Roster Change

(To be initiated by the responsible Director, Manager or Supervisor)

To: Emergency Preparedness Manager - OC

Name: \_\_\_\_\_

Location: \_\_\_\_\_

Soc. Sec. #: \_\_\_\_\_

Home Phone: \_\_\_\_\_

Office Ext.: \_\_\_\_\_

This individual meets the requirements as outlined:

\_\_\_\_\_ Initial Response Emergency Organization (1 Hr. Response Required)

Position #:\_\_\_\_\_ Position Name:\_\_\_\_\_ Team:\_\_\_\_\_

Respirator Training Date:\_\_\_\_\_ Currently Active in Dosimetry

Physical Date:\_\_\_\_\_ System (TLD Issued)

RWP Training Date:\_\_\_\_\_ Date\_\_\_\_\_

Whole Body Count Date:\_\_\_\_\_

Respirator Fit Date:\_\_\_\_\_

\_\_\_\_\_ Emergency Support Organization

Position required response time 1 Hr/4 Hrs (Select One)

Position #:\_\_\_\_\_ Position Name:\_\_\_\_\_ Priority

\_\_\_\_\_ Please Remove From Roster

Reason for Change:\_\_\_\_\_

\_\_\_\_\_  
Signature of Director, Manager or Supervisor

\_\_\_\_\_  
Title

\_\_\_\_\_  
Date

Forward to Emergency Preparedness

-----  
The above individual's training is in compliance with Ref. 6.1 6.3 and 6.5.

\_\_\_\_\_  
Support Training Manager

\_\_\_\_\_  
Date

Forward to the Emergency Preparedness Manager - OC.

-----  
Approved \_\_\_\_\_

Added to the Main Frame System \_\_\_\_\_  
Date

Not Approved \_\_\_\_\_

Reason: \_\_\_\_\_

Title

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**7**(EXAMPLE)  
EXHIBIT 6  
DRILL EXEMPTION LIST

DRILL DATE: \_\_\_\_\_

COMPANY: \_\_\_\_\_

DEPARTMENT: \_\_\_\_\_

NAME (last, first)	Key Card #	Slot #	SOC. SEC. #	Reason

NOTE

All required information must be completed prior to being submitted for approval.

\_\_\_\_\_  
Requested by / Date  
(Dir, Mgr, or Supv)\_\_\_\_\_  
Approved by / Date  
(Dir, - Ops & Maintenance)cc: Security  
Emergency Preparedness

Title

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**7**EXHIBIT 7Emergency Response OrganizationEssential Positions

101	Operations Coordinator
102	ECC Communications Coordinator
103	ECC Communicator (Tech Functions)
104	ECC Communicator (Plant Status)
201	Emergency Director
202	E.D. Assistant
203	Rad. Assessment Coordinator
204	Radiological Engineering Support
205	TSC Coordinator
206	TSC Engineer (Mech)
207	TSC Engineer (Elec)
208	TSC Engineer (I&C)
210	Core Engineer (Tech Functions)
301	OSC Coordinator
302	Emergency Maintenance Coordinator
303	Radiological Controls Coordinator
304	Chemistry Coordinator
305	Medical Representative
306	Security Coordinator
501	Emergency Assembly Area Coordinator
601	Emergency Support Director
602	ESD Assistant
603	Group Leader R&EC
604	Public Information Representative
605	EOF Communications Coordinator
606	EOF Communicator
607	EOF Communicator
608	Tech Support Representative
609	Group Leader - Admin Support
610	Emergency Preparedness Representative
612	PI Tech Rep/Com
801	Env. Assess. Coordinator
802	Met/Dose Assessment Coordinator
910	Media Center Lead/Com
911	Media Center Advisor/Com
912	PI Tech Rep/Com
913	PI Rep/Com

Title

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**7**EXHIBIT 8Emergency Response OrganizationSupplemental Positions

250 TSC Communications Coordinator  
253 Technical Assistant  
350 Maintenance Team Coordinator  
351 Emergency Maintenance Electrical  
353 OSC Communications Coordinator  
354 OSC Communicator (Operations)  
355 OSC Communicator (Plant Status)  
450 Rad/Env. Survey Team A Leader  
451 Rad/Env. Survey Team A Assistant  
452 Rad/Env. Survey Team B Leader  
453 Rad/Env. Survey Team B Assistant  
650 EOF Tech Support Staff  
651 EOF Tech Support Staff  
652 EOF Tech Support Staff  
653 Admin Support Staff  
654 Materials Management Coordinator  
658 Computer Eng.  
952 JIC Admin./Communicator

Title

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EXHIBIT 9

Software Configuration Control Change Request

1. Software/Source Code to be Changed: \_\_\_\_\_

2. Requested Change: \_\_\_\_\_

3. Responsible Point of Contact: \_\_\_\_\_

4. Concurrence for Change Request YES / NO Sig. \_\_\_\_\_ Date \_\_\_\_\_

If NO an explanation should be provided to requesting party, If YES proceed with request.

5. Responsible Change Party: \_\_\_\_\_

5.1 Description of Change: \_\_\_\_\_

5.2 Method of Verification and Validation: \_\_\_\_\_

6. Responsible Reviews: \_\_\_\_\_

7. Emergency Preparedness Approval

Approval Signature

/

Title

/

Date



**OYSTER CREEK  
EMERGENCY PREPAREDNESS  
IMPLEMENTING PROCEDURE**

Number  
**OEP-ADM-1313.02**

Title <b>EMERGENCY RESPONSE FACILITIES &amp; EQUIPMENT MAINTENANCE</b>		Revision No. <b>7</b>
Applicability/Scope Applies to work at Oyster Creek		Responsible Office Emergency Preparedness
This document is within QA plan scope Safety Reviews Required		Effective Date Date of Sale
<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No		

Prior Revision 6 incorporated the following Temporary Changes:

N/A

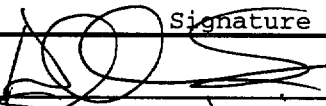

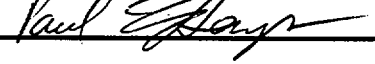
This Revision 7 incorporates the following Temporary Changes:

N/A

List of Pages (all pages rev'd to Rev. 7)

1.0 to 10.0  
E1-1 to E1-21  
E2-1 to E2-5  
E3-1 to E3-5  
E4-1 to E4-4  
E5-1 to E5-4  
E6-1  
E7-1 to E7-2  
E8-1 to E8-3  
E9-1 to E9-2  
E10-1

**NON-CONTROLLED  
This Document Will Not  
Be Kept Up To Date  
DCC Oyster Creek**

	Signature	Concurring Organization Element	Date
Originator		Emergency Planner	1/11/00
Concurred By		Director, Ops & Maintenance, OC	1-13-00
Approved By		Emergency Preparedness Mgr, OC	1-14-00

Title	Revision No.
<b>EMERGENCY RESPONSE FACILITIES &amp; EQUIPMENT MAINTENANCE</b>	<b>7</b>

DOCUMENT HISTORY

REV	DATE	DESCRIPTION OF CHANGE	PREPARED BY: REVIEWED BY: APPROVED BY:
7	07/17/92	Revise forms requirement at several centers, update JIC equipment.	
8	08/93	Major rewrite of Procedure.	D. VanNortwick
9	09/94	Update form ie. Quantities and Nomenclature. Remove telephones, desks, chairs, clocks from inventory.	A. Smith
10	12/94	Update forms for various inventories at centers.	A. Smith
11	05/19/95	Reduce inventory of fixed equipment and normal consumables i.e. pens & pads clarify reporting instructions on inventory forms. Due to the extent of the change rev bars are not appropriate.	A. Smith
0	04/06/96	Remove North Gate inventories. Adjust various inventories to reflect anticipated needs. Further clarify reporting instructions. Correct responsible titles. Clarify review process for completed inventories. Due to the extent of the change rev bars are not appropriate.	A. Smith
1	02/97	Reduce quantities of full face neg. pressure resp. at ERF's, add Zeolite cartridge insp., add Dosimeter charger to APP A-1, adjust the size of Phillips Head screw drivers in APP. "D" to reflect actual contents.	A. Smith
2	12/97	Delete Ref. To EPIP-OC-.04 add inventory sheet for new primary EAA which is now OCAB Cafeteria. Modify tests for EACC Computers to reflect current testing.	A. Smith
3	06/98	Adjusting inventories on various appendixes to reflect additional equip. consolidate forms for cleaner documentation. Change air sampler in on site van from hi-vol to lo-vol.	J. Rayment
4	09/98	Remove respirators from offsite FMT vans as per Revision 1 of this procedure.	A. Smith
5	02/99	Change "Xetex Chirper" to ESRD or equivalent.	D. VanNortwick
6	08/99	Include rescue equipment in lockers-clarify locker location.	D. VanNortwick
7	DOS	Remove Comec and GPU cover page. Change reference from GPU or GPUN to OCNGS.	A. Smith

Title

**EMERGENCY RESPONSE FACILITIES & EQUIPMENT MAINTENANCE**

Revision No.

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3.0 DEFINITIONS	4.0
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4.4 Manager, Plant Operations	5.0
4.5 Security Manager	5.0
4.6 Radiological Controls/Safety Director-OC	5.0
4.7 Manager, Environmental Affairs-OC	6.0
4.8 Medical Director-OC	6.0
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**EMERGENCY RESPONSE FACILITIES & EQUIPMENT MAINTENANCE**

Revision No.

**7**

1.0 PURPOSE

This procedure delineates the requirements to maintain availability and reliability of Emergency Equipment.

2.0 APPLICABILITY/SCOPE

This procedure applies to the Oyster Creek Division and Support Divisions assigned responsibilities for Emergency Response Facilities and/or equipment.

3.0 DEFINITIONS

Housekeeping as used in this document is intended to maintain emergency lockers in a neat and orderly fashion.

4.0 RESPONSIBILITIES

4.1 All Responsible Organizations

- 4.1.1 Directors/Managers shall be responsible to assign an individual to inventory equipment/material needs for each facility as identified in Section 4.0.

NOTE

Directors/Managers shall be responsible to replace any equipment and/or supplies which were used or are missing or require maintenance.

4.2 The Emergency Preparedness Manager-OC or designee shall:

- 4.2.1 Assign a facility custodian to maintain the Emergency Operations Facility (EOF), Tech Support Center (TSC), and Building 14 Remote Assembly Area in a state of readiness.

- 4.2.2 Ensure that inventories are performed at frequencies defined in this procedure and that surveillance deficiencies are identified, resolution scheduled and tracked to completion.
- 4.2.3 Review the results of inventories in accordance with Section 5.4.
- 4.3 The Manager, Chemistry/Radwaste Ops shall maintain the Emergency Chemistry equipment in a state of readiness.
- 4.4 The Manager, Plant Operations shall maintain the Emergency Control Center (ECC) in a state of readiness.
- 4.5 The Security Manager shall maintain the Main Gate Processing Center, and the Emergency Assembly Area in a state of readiness.
- 4.6 The Radiological Controls/Safety Director-OC shall:
- 4.6.1 Make available Rad-Techs following each drill or quarter as necessary to assist completing the required inventory of facilities and Emergency Radiological Controls equipment. EP, individual facility coordinators, RCCs or GRC's will indicate the facilities and equipment to be inventoried and replenished.
- 4.6.2 Assign a custodian to test and maintain the Dose Projection Computer equipment located in the Computer Room (off of the Control Room) and in the Rad Analysis Support Engineer's office in the TSC.
- 4.6.3 Assign a facility custodian to ensure Rad Assessment Support Office in TSC is kept orderly and in a state of readiness.
- 4.6.4 Maintain Emergency Respirator Equipment Facility.

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**7****4.7    The Manager, Environmental Affairs-OC shall:**

4.7.1    Maintain the Environmental Assessment Command Center (EACC) in a state of readiness.

4.7.2    Ensure that Emergency Off-Site Monitoring Equipment (which consists of the two company vehicles and three emergency monitoring kits at the Forked River site) is inventoried and maintained.

**4.8    The Medical Director-OC shall ensure that First Aid and Rescue equipment is maintained.****4.9    The Plant Maintenance Director-OC shall:**

4.9.1    Assign a facility custodian and maintain the Operations Support Center (OSC) in a state of readiness.

4.9.2    Ensure that Emergency Maintenance equipment is maintained.

**4.10   Group Supervisor Rad Con I&C**

4.10.1   Will ensure that Rad Con emergency instruments are properly maintained, calibrated, and inventoried per applicable procedures.

**5.0    PROCEDURE****5.1    Emergency Response Facilities**

A facility custodian should be assigned for the TSC, OSC and EOF and may be assigned for other Emergency Response Facilities by the responsible director, manager, or supervisor as identified in Section 4.0. These facility custodians or the responsible Director, Manager, or Supervisor shall oversee the readiness of the assigned facility.

This includes:

5.1.1    Maintenance of controlled procedures, drawings, logbooks, etc.

5.1.2    Inspection and inventory of the assigned facility after each use, but in no case less than quarterly, to verify stockage of required items and to test equipment operability.

Title

**EMERGENCY RESPONSE FACILITIES & EQUIPMENT MAINTENANCE**

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- 5.1.3 The use of the Dose Projection Computers and associated equipment during a drill will constitute the inspection required after each drill as long as the quarterly requirements are met.

NOTE

Appendix H of this procedure will still be filled out to document the results of the inspection.

5.2 Emergency Equipment

Emergency equipment shall be inventoried, calibrated, and maintained by the responsible departments identified in Section 4.0.

- 5.2.1 Emergency kits/lockers shall be inventoried once each calendar quarter and after use during drills, exercises, training or actual emergencies. An inventory performed after use during drills, exercises, training or actual emergencies may also satisfy the quarterly requirement.

5.2.1.1 Emergency Maintenance Lockers (Appendix D) shall be inventoried only if each seal is broken but no less than once per calendar year.

5.2.1.2 Inventories should be completed within 10 days of drill or training usage or end of quarter.

- 5.2.2 Radiological instruments should be inspected for serviceability, calibration, battery condition.

5.2.3 When removing any instrument or equipment for repair/calibration from any emergency equipment storage location, an equivalent (serviced and calibrated) replacement shall be provided by the end of the shift it was taken out of service on.

5.2.4 Radiological instruments in emergency lockers are not to be used for any other purpose in the plant. They are for emergency and drill use only.

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5.2.5 Silver Zeolite Cartridges are certified by the manufacturer to have a ten year shelf life when in a sealed sleeve. The sleeve integrity and date on sleeve should be checked during each inventory. All other cartridges out of sleeves should be marked "For Training Use".

5.2.6 Emergency lockers and kits will be locked and periodically (at least quarterly) inspected for lock integrity. Lockers or kits with suspect integrity should be inventoried.

5.3 Emergency Equipment/Facility Inventory

5.3.1 The Emergency Preparedness Surveillance Coordinator or designee shall, at least quarterly, send out inventory checklists to be completed by the responsible departments along with appropriate instructions to complete inventories. (Ref. 1R95-20 Nov)

5.3.2 The responsible organization shall assign an individual to complete the inventory of the facilities and equipment as follows:

Appendix Organization

A-1	Rad Con/Emergency Preparedness
A-2	Rad Con/Emergency Preparedness
A-3	Rad Con/Emergency Preparedness
A-4	Rad Con/Emergency Preparedness
A-5	Rad Con/Emergency Preparedness
A-6	Respiratory Protection Maintenance
A-7	Rad Con/Emergency Preparedness
A-8	Rad Con/Emergency Preparedness
A-9	Respiratory Protection Maintenance
A-10	Rad Con/Emergency Preparedness
A-11	Rad Con/Emergency Preparedness
A-12	Rad Con/Emergency Preparedness
A-13	Rad Con/Emergency Preparedness



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**7**

- B-1 Environmental Affairs
- B-2 Rad Con/Emergency Preparedness
- C Chemistry
- D Site Services
- E Medical
- F Environmental Affairs
- G Plant Operations (ECC)  
Emergency Preparedness (EOF, RAA's, TSC, OSC, MGPC)
- H Rad Engineering/Environmental Affairs
- I Rad Con I & C
- 5.3.2.1 The assigned individual shall use the appropriate appendix as identified in 5.3.2.
- 5.3.2.2 Items listed on the inventory sheet shall not be allowed to remain less than 70% of the required quantity without replacement immediately. There are no upper limits for inventory quantities, normal housekeeping should apply.
- 5.3.2.3 Deficiencies shall be noted and corrected. Damage to the facility or equipment should be noted. Items which are found to be in quantities described by 5.3.2.2 above shall not be considered deficient. Items which cannot be immediately corrected shall be identified with corrective action and date to be completed noted.
- 5.3.2.4 Consumables with established shelf life should be verified current through the next expected inventory.

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**EMERGENCY RESPONSE FACILITIES & EQUIPMENT MAINTENANCE**

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**7****5.4    Inventory Review**

5.4.1    The inventory checklist will be reviewed by a responsible department supervisor or designee indicating any deficiencies found have been corrected. Unresolved deficiencies will be noted including suggestions for corrective actions, sign checklist and return to the Emergency Preparedness Surveillance Coordinator.

5.4.2    The Emergency Preparedness Surveillance Coordinator or designee shall review ERF Checklists in accordance with inventory expectations and this procedure and subsequently file all Emergency Equipment/Facility Checklists in Emergency Preparedness Section files for interim storage until filed in the DCC as LP Documents. Receipt of the checklists will be tracked using Appendix J. A random sample of inventories will be reviewed by the EP Manager for each drill or at least quarterly.

**6.0    REFERENCES**

- 6.1    2000-PLN-1300.01, OCNGS Emergency Plan.
- 6.2    Emergency Preparedness Procedure, OEP-ADM-1319.01, Oyster Creek Emergency Preparedness Program

**7.0    EXHIBITS**

- 7.1    Appendix A            Emergency Rad Con Equipment
- 7.2    Appendix B            Emergency Monitoring Equipment
- 7.3    Appendix C            Emergency Chemistry Equipment
- 7.4    Appendix D            Emergency Maintenance Equipment
- 7.5    Appendix E            Emergency First Aid and Rescue Equipment
- 7.6    Appendix F            EACC Checklist
- 7.7    Appendix G            Emergency Facilities Equipment
- 7.8    Appendix H            Emergency Offsite Dose Projection Computers
- 7.9    Appendix I            Hospital Rad Con Equipment
- 7.10   Appendix J           Inventories Tracking Form

Title

**EMERGENCY RESPONSE FACILITIES & EQUIPMENT MAINTENANCE**

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**7**APPENDIX AEmergency Rad Con EquipmentAppendix SectionLocation

A-1	Emergency Assembly Area (Warehouse)
A-2	Emergency Control Center
A-3	Remote Assembly Area (Berkeley)
A-4	Operations Support Center
A-5	Main Gate Processing Center
A-6	Technical Support Center
A-7	Emergency Operations Facility
A-8	Emergency Respiratory Equipment Issue Facility
A-9	Contaminated/Injured Worker Transport Kits Ambulance
A-10	RWP Office
A-11	RAA Transport Kit (OSC)
A-12	FRAA (Building 14)
A-13	Emergency Assembly Area (OCAB)

APPENDIX A-1  
INVENTORY FORM - EMERGENCY EQUIPMENT

Kit Location Emergency Assembly Area Type: Emergency Locker Inventory Date: \_\_\_\_\_  
(Warehouse)

Inventory Performed \_\_\_\_\_ Reviewed: \_\_\_\_\_ Date: \_\_\_\_\_  
and Equipment Verified \_\_\_\_\_ By Dept. Supervisor  
Locked or Sealed

Reason for Inventory: Quarterly Requirement • Post Drill • Other (explain in Remarks) •

ITEM	NUMBER REQUIRED	COMMENTS
Button Source	1	
Dose Rate Meter w/batt. (0-1R/Hr.)	1	
Frisker w/probe & power cable	1	
Area Rad Monitor w/alarm	1*	
Air Sampler, Continuous Monitoring w/alarm	1*	
Air Sampler, Low Vol. RAS 1	1	
Particulate Air Sample Filter	50	
Silver Zeolite Cartridge GY130	5	
Duct Tape (2 inch roll)	1	
Poly Sheets (4 ft. x 8 ft.)	2	
Smear Disc	Approx. 100	
Sample Envelopes	Approx. 100	
Radiation Warning Rope	Approx. 200 ft.	

Emergency Preparedness Department Review \_\_\_\_\_ / \_\_\_\_\_  
Initials Date

Remarks:

\* THESE ITEMS STORED OUTSIDE OF LOCKER

APPENDIX A-1 (continued)  
INVENTORY FORM - EMERGENCY EQUIPMENT

Kit Location Emergency Assembly Area Type: Emergency Locker Inventory Date: \_\_\_\_\_  
(Warehouse)

Inventory Performed \_\_\_\_\_ Reviewed: \_\_\_\_\_ Date: \_\_\_\_\_  
and Equipment Verified By Dept. Supervisor  
Locked or Sealed

Reason for Inventory: Quarterly Requirement • Post Drill • Other (explain in Remarks) •

ITEM	NUMBER REQUIRED	COMMENTS
Poly Bag (medium)	10	
Radiological Warning Signs	5	
Personnel Clothing Contamination Survey Form	Approx. 200	
Personnel Contamination Survey Form	Approx. 200	
Facility Rad Con Survey Map	10	
Bull Horn	2	
Rad Materials Stickers	20	
Step-off Pad	2	

Emergency Preparedness Department Review \_\_\_\_\_/\_\_\_\_\_  
Initials Date

Remarks:

E1-3

APPENDIX A-2  
INVENTORY FORM - EMERGENCY EQUIPMENT

Kit Location Emergency Control Center Type: Emergency Locker Inventory Date: \_\_\_\_\_

Inventory Performed \_\_\_\_\_ Reviewed: \_\_\_\_\_ Date: \_\_\_\_\_  
and Equipment Verified \_\_\_\_\_  
Locked or Sealed \_\_\_\_\_  
By Dept. Supervisor

Reason for Inventory: Quarterly Requirement • Post Drill • Other (explain in Remarks) •

ITEM	NUMBER REQUIRED	COMMENTS
Button Source	1	
Dose Rate Meter (0-50 R/Hr.)	2	
Alarming Dosimeter	5	
Frisker w/probe & power cable	1	
Air Sampler, Continuous monitoring w/alarm	1	
Air Sampler, Low Vol. RAS 1	1	
Air Sampler, Hi Vol. H809V	1	
Count Rate Survey Meter (0-50 KCPM)	1	
Dosimeter, 0-200 mRem	20	
Dosimeter, 0-10 Rem	10	
Dosimeter Charger	1	
Full Face Negative pressure respirator w/Filter	5	
SCBA Paks	4	
Duct Tape (2 inch roll)	1	
Particulate Air Sample Filter	Approx. 100	
Silver Zeolite Air Sample Cartridge (GY-130)	5	
Smear Disc	Approx. 100	

Emergency Preparedness Department Review \_\_\_\_\_ / \_\_\_\_\_  
Initials Date

Remarks:

APPENDIX A-2 (continued)  
INVENTORY FORM - EMERGENCY EQUIPMENT

Kit Location Emergency Control Center Type: Emergency Locker Inventory Date: \_\_\_\_\_  
Inventory Performed \_\_\_\_\_ Reviewed: \_\_\_\_\_ Date: \_\_\_\_\_  
and Equipment Verified \_\_\_\_\_ By Dept. Supervisor  
Locked or Sealed

Reason for Inventory: Quarterly Requirement • Post Drill • Other (explain in Remarks) •

ITEM	NUMBER REQUIRED	COMMENTS
Sample Envelopes	Approx. 100	
PC's Paper (Sets)	50	
Radiation Warning Rope (ft.)	Approx. 100	
Emergency Message Forms	Approx. 500	
Poly Bag (Medium)	10	
Radiological Warning Signs	2	
Control Point Access Ticket	Approx. 200	
Personnel Clothing Contamination Survey Form	10	
Personnel Contamination Survey Form	10	
Facility Rad Con Survey Map	10	
Rad Material Stickers	10	
Step-off Pad	2	

Emergency Preparedness Department Review \_\_\_\_\_/\_\_\_\_\_  
Initials Date

Remarks:

APPENDIX A-3  
INVENTORY FORM - EMERGENCY EQUIPMENT

Kit Location Remote Assembly Area (RAA) Berkeley Type: Emergency Locker/Closet Inventory Date: \_\_\_\_\_

Inventory Performed \_\_\_\_\_ Reviewed: \_\_\_\_\_ Date: \_\_\_\_\_  
and Equipment Verified \_\_\_\_\_  
Locked or Sealed \_\_\_\_\_  
By Dept. Supervisor

Reason for Inventory: Quarterly Requirement • Post Drill • Other (explain in Remarks) •

ITEM	NUMBER REQUIRED	COMMENTS
Protective Clothing (Full Set)	20	
Smear Disc	Approx. 500	
Sample Envelopes	Approx. 500	
Radiological Warning Signs w/inserts	20	
Personnel Clothing Contamination Survey Form	Approx. 100	
Personnel Contamination Survey Form	Approx. 100	
Facility Rad Con Survey Map	50	
Bull Horn	2	
Step-off Pad	5	
Boots (Pairs)	12	
Catch Container	2	
Rad Material Stickers	Approx. 100	
Radiation Warning Rope (ft.)	Approx. 600	

Emergency Preparedness Department Review \_\_\_\_\_/\_\_\_\_\_  
Initials Date

Remarks:



APPENDIX A-4  
INVENTORY FORM - EMERGENCY EQUIPMENT

Kit Location Operation Support Center (OSC) Type: Emergency Locker Inventory Date: \_\_\_\_\_

Inventory Performed \_\_\_\_\_ Reviewed: \_\_\_\_\_ Date: \_\_\_\_\_  
and Equipment Verified By Dept: Supervisor  
Locked or Sealed

Reason for Inventory: Quarterly Requirement • Post Drill • Other (explain in Remarks) •

ITEM	NUMBER REQUIRED	COMMENTS
Button Source	1	
Dose Rate Meter (0-1000 R/Hr.)	2	
Frisker w/probe & power cable	3	
Area Radiation Monitor w/alarm	1	
Air Sampler, Continuous Monitoring w/alarm	1	
Air Sampler, Hi Vol. H809V	2	
Air Sampler, Lo Vol. RAS-1	2	
Air Sampler, Lapels	5	
Lapel Air Sampler Cartridges	Approx. 50	
Lapel Air Sampler Charger	1	
Count Rate Survey Meter (0-50 KCPM)	1	
Dosimeter, 0-200 mRem	10	
Dosimeter, 0-10 Rem	10	
Dosimeter, 0-200 Rem	10	
Dosimeter Charge	1	
Full Face Negative Pressure Respirator w/Filter	10 Respirators	
SCBA's	8	
Face Pieces for SCBA's	5	
Duct Tape (2 inch roll)	5	

Emergency Preparedness Department Review \_\_\_\_\_/\_\_\_\_\_  
Initials Date

Remarks:

E1-7

APPENDIX A-4  
INVENTORY FORM - EMERGENCY EQUIPMENT

Kit Location Operation Support Center (OSC) Type: Emergency Locker Inventory Date: \_\_\_\_\_

Inventory Performed \_\_\_\_\_ Reviewed: \_\_\_\_\_ Date: \_\_\_\_\_ and  
Equipment Verified \_\_\_\_\_ By Dept. Supervisor  
Locked or Sealed \_\_\_\_\_

Reason for Inventory: Quarterly Requirement • Post Drill • Other (explain in Remarks) •

ITEM	NUMBER REQUIRED	COMMENTS
Poly Sheets (4 ft. x 8 ft.)	5	
Particulate Air Sampler Filter	Approx. 200	
Silver Zeolite Air Sample Cartridge (GY-130)	50	
Smear Disc	Approx. 500	
Sample Envelopes	Approx. 500	
Water Sample Bottle	10	
Poly Bag (Medium)	25	
Radiological Warning Signs	20	
Control Point Access Ticket	20	
Paper PC's for Reverse Contamination	50	
Plastic Booties for Reverse Contamination	50 pair	
Surgeon Gloves for Reverse Contamination	100 pair	

Emergency Preparedness Department Review \_\_\_\_\_/\_\_\_\_\_  
Initials Date

Remarks:

APPENDIX A-4 (continued)  
INVENTORY FORM - EMERGENCY EQUIPMENT

Kit Location Operation Support Center (OSC) Type: Emergency Locker Inventory Date: \_\_\_\_\_

Inventory Performed \_\_\_\_\_ Reviewed: \_\_\_\_\_ Date: \_\_\_\_\_  
and Equipment Verified \_\_\_\_\_ By Dept. Supervisor  
Locked or Sealed

Reason for Inventory: Quarterly Requirement • Post Drill • Other (explain in Remarks) •

ITEM	NUMBER REQUIRED	COMMENTS
Personnel Clothing Contamination Survey Form	Approx. 100	
Personnel Contamination Survey Form	Approx. 100	
Facility Rad Con Survey Map	Approx. 50	
Step-off Pad	10	
Boots (Pairs)	Approx. 50	
Rad Material Stickers	Approx. 100	
Radiation Warning Rope (ft.)	Approx. 500 Ft.	
Emergency Message Forms	Approx. 100	

Emergency Preparedness Department Review \_\_\_\_\_ / \_\_\_\_\_  
Initials Date

Remarks:

APPENDIX A-5  
INVENTORY FORM - EMERGENCY EQUIPMENT

Kit Location Main Gate Processing Center Type: Emergency Locker Inventory Date: \_\_\_\_\_

Inventory Performed \_\_\_\_\_ Reviewed: \_\_\_\_\_ Date: \_\_\_\_\_  
and Equipment Verified By Dept. Supervisor  
Locked or Sealed

Reason for Inventory: Quarterly Requirement • Post Drill • Other (explain in Remarks) •

NOTE

KEY FOR LOCKER IN MAIN GATE IS IN SECURITY OFFICE KEY BOX, KEY #21.

ITEM	NUMBER REQUIRED	COMMENTS
Button Source	1	
Frisker w/probe & power cable	1	
Area Radiation Monitor w/alarm	1	
Air Sampler, Continuous Monitoring w/alarm	1	
Electronic Self Read Dosimeter or Equivalent	20	
Full Face Negative Pressure Respirator w/Filter	5	
Duct Tape (2 inch roll)	1	
Poly Sheets (4 ft. x 8 ft.)	1	
Particulate Air Sample Filter	50	
Smear Disc	Approx. 100	
Sample Envelopes	Approx. 100	
Step-off Pad	2	
Radiation Warning Rope (ft.)	Approx. 500	

Emergency Preparedness Department Review \_\_\_\_\_/\_\_\_\_\_  
Initials Date

Remarks: ,

APPENDIX A-5 (continued)  
INVENTORY FORM - EMERGENCY EQUIPMENT

Kit Location Main Gate Processing Center Type: Emergency Locker Inventory Date: \_\_\_\_\_  
Inventory Performed \_\_\_\_\_ Reviewed: \_\_\_\_\_ Date: \_\_\_\_\_  
and Equipment Verified \_\_\_\_\_ By Dept. Supervisor  
Locked or Sealed

Reason for Inventory: Quarterly Requirement • Post Drill • Other (explain in Remarks) •

NOTE

KEY FOR LOCKER IN MAIN GATE IS IN SECURITY OFFICE KEY BOX, KEY #21.

ITEM	NUMBER REQUIRED	COMMENTS
Poly Bag (Medium)	10	
Radiological Warning Signs	5	
Personnel Clothing Contamination Survey Form	10	
Personnel Contamination Survey Form	10	
Facility Rad Con Survey Map	10	
Rad Material Stickers	10	

Emergency Preparedness Department Review \_\_\_\_\_ / \_\_\_\_\_  
Initials Date

Remarks:

E1-11

APPENDIX A-6  
INVENTORY FORM - EMERGENCY EQUIPMENT

Kit Location Technical Support Center (TSC) Type: Emergency Locker

Inventory Date: \_\_\_\_\_

Inventory Performed \_\_\_\_\_  
and Equipment Verified \_\_\_\_\_  
Locked or Sealed \_\_\_\_\_

Reviewed: \_\_\_\_\_  
By Dept. Supervisor

Date: \_\_\_\_\_

Reason for Inventory: Quarterly Requirement • Post Drill • Other (explain in Remarks) •

ITEM	NUMBER REQUIRED	COMMENTS
Button Source	1	
Dose Rate Meter (0-1R/Hr.)	1	
Frisker w/probe & power cable	2	
Area Radiation Monitor w/alarm	1	
Air Sampler, Continuous Monitoring w/alarm	1	
Air Sampler, Hi Vol. H809V	1	
Air Sampler, Lo Vol. RAS1	1	
Dosimeter, 0-200 mRem	40	
Full Face Negative Pressure Respirator w/Filter	5	
Count Rate Survey Meter	1	
PC's Paper (Sets)	Approx. 50	
Duct Tape (2 inch roll)	1	
Poly Sheets (4 ft. x 8 ft.)	2	
Particulate Air Sample Filter	Approx. 100	
Silver Zeolite Air Sample Cartridge (GY-130)	10	
Smear Disc	Approx. 100	

Emergency Preparedness Department Review \_\_\_\_\_/\_\_\_\_\_  
Initials Date

Remarks:

APPENDIX A-6 (continued)  
INVENTORY FORM - EMERGENCY EQUIPMENT

Kit Location Technical Support Center (TSC) Type: Emergency Locker Inventory Date: \_\_\_\_\_

Inventory Performed \_\_\_\_\_ Reviewed: \_\_\_\_\_ Date: \_\_\_\_\_  
and Equipment Verified By Dept. Supervisor  
Locked or Sealed

Reason for Inventory: Quarterly Requirement • Post Drill • Other (explain in Remarks) •

ITEM	NUMBER REQUIRED	COMMENTS
Sample Envelopes	Approx. 100	
Water Sample Bottle	5	
Step-off Pad	5	
Radiation Warning Rope (ft.)	Approx. 200	
Poly Bay (Medium)	25	
Radiological Warning Signs	10	
Control Point Access Ticket	20	
Personnel Clothing Contamination Survey Form	10	
Personnel Contamination Survey Form	10	
Facility Rad Con Survey Map	10	
Rad Material Stickers	Approx. 100	
Emergency Message Forms	Approx. 100	
SRD Charger	1	

Emergency Preparedness Department Review \_\_\_\_\_/\_\_\_\_\_  
Initials Date

Remarks:

APPENDIX A-7  
INVENTORY FORM - EMERGENCY EQUIPMENT

Kit Location Emergency Operation Facility (EOF) Type: Emergency Locker Inventory Date: \_\_\_\_\_

Inventory Performed \_\_\_\_\_ Reviewed: \_\_\_\_\_ Date: \_\_\_\_\_  
and Equipment Verified \_\_\_\_\_ By Dept. Supervisor  
Locked or Sealed

Reason for Inventory: Quarterly Requirement • Post Drill • Other (explain in Remarks) •

ITEM	NUMBER REQUIRED	COMMENTS
Button Source (See Remarks)	1	
Frisker w/probe & power cable	1	
Smear Disc	Approx. 100	
Sample Envelopes	Approx. 100	
Poly Bag (Medium)	10	
Personnel Clothing Contamination Survey Form	10	
Personnel Contamination Survey Form	10	
Rad Material Stickers	5	

Emergency Preparedness Department Review \_\_\_\_\_ / \_\_\_\_\_  
Initials Date

Remarks:

**NOTE: BUTTON SOURCE IS LOCATED IN THE KEY LOCK BOX NEAR ENTRANCE TO EOF.**

**KEY FOR BOX IS IN TOP DRAWER OF ESD'S DESK.**



APPENDIX A-8  
INVENTORY FORM - EMERGENCY EQUIPMENT

Emergency Respiratory/Dosimetry

Equipment Location Bldg. 14 TLD/Dosimetry Office

Inventory Performed \_\_\_\_\_  
and Equipment Verified \_\_\_\_\_

Type: N/A

Reviewed: \_\_\_\_\_

By Dept. Supervisor

Inventory Date: \_\_\_\_\_

Date: \_\_\_\_\_

Reason for Inventory: Quarterly Requirement • Post Drill • Other (explain in Remarks) •

ITEM	NUMBER REQUIRED	COMMENTS
Emergency Dosimetry SRD's 0-200 MR	100	
Procedure EPIP-OC-.35/Respirator Issue Log	1	
Emergency TLDs	100	

Emergency Preparedness Department Review \_\_\_\_\_/\_\_\_\_\_  
Initials Date

NOTE: Procedure EPIP-OC-.35 is located in Training Instructor's Office-Bldg. #14.

Remarks:

APPENDIX A-9  
INVENTORY FORM - EMERGENCY EQUIPMENT

Kit Location Ambulance Type: Medical Transport Kit Inventory Date: \_\_\_\_\_

Inventory Performed \_\_\_\_\_ Reviewed: \_\_\_\_\_ Date: \_\_\_\_\_  
and Equipment Verified By Dept. Supervisor  
Locked or Sealed

Reason for Inventory: Quarterly Requirement • Post Drill • Other (explain in Remarks) •

ITEM	NUMBER REQUIRED	COMMENTS
Count Rate Survey Meter	1	
Pancake Probes	2	
Button Source	1	
Disposable Blanket	1	
Paper (PC) 1 Set	1	
Smear Pads	20	
Gloves (Pairs)	2	
Tape (rolls)	2	
Survey Forms Radiological, Skin, Clothing	5 Each	
Rad Ribbon	Approx. 100 Ft.	
Rad Material Stickers	10	
Procedure 6630-ADM-4330.02	1	

Emergency Preparedness Department Review \_\_\_\_\_ / \_\_\_\_\_  
Initials Date

Remarks:

APPENDIX A-10  
INVENTORY FORM - EMERGENCY EQUIPMENT

Kit Location RWP Office Type: Medical Transport Kit Inventory Date: \_\_\_\_\_

Inventory Performed \_\_\_\_\_ Reviewed: \_\_\_\_\_ Date: \_\_\_\_\_  
and Equipment Verified \_\_\_\_\_  
Locked or Sealed By Dept. Supervisor

Reason for Inventory: Quarterly Requirement • Post Drill • Other (explain in Remarks) •

ITEM	NUMBER REQUIRED	COMMENTS
Count Rate Survey Meter	1	
Pancake Probes	2	
Button Source	1	
Disposable Blanket	1	
Paper (PC) (Set)	1	
Trash Bags	5	
Smear Pads	20	
Gloves (Pairs)	2	
Tape (rolls)	2	
Survey Forms Radiological, Skin, Clothing	5	
Rad Ribbon	Approx. 100 Ft.	
Rad Material Stickers	10	
Procedure 6630-ADM-4330.02	1	

Emergency Preparedness Department Review \_\_\_\_\_/\_\_\_\_\_  
Initials Date

Remarks:

APPENDIX A-11  
INVENTORY FORM - EMERGENCY EQUIPMENT

Kit Location OSC Type: RAA Transport Kit Inventory Date: \_\_\_\_\_  
Inventory Performed \_\_\_\_\_ Reviewed: \_\_\_\_\_ Date: \_\_\_\_\_  
and Equipment Verified \_\_\_\_\_ By Dept. Supervisor  
Locked or Sealed

Reason for Inventory: Quarterly Requirement • Post Drill • Other (explain in Remarks) •

ITEM	NUMBER REQUIRED	COMMENTS
Dose Rate Meter (0-1R/Hr.)	2	
Frisker w/probe & power cable	2	
Button Source	1	
Dosimeter, 0-200 mRem	10	
Paper (PC) (Set)	5	
Rad Ribbon	Approx. 100 Ft.	
Smear Pads	20	
Gloves (Pairs)	10	
Tape (rolls)	2	
Survey Forms Radiological, Skin, Clothing	5 Each	
Radiological Material Stickers	10	

Emergency Preparedness Department Review \_\_\_\_\_/\_\_\_\_\_  
Initials Date

Remarks:

EL-18

APPENDIX A-12  
INVENTORY FORM - EMERGENCY EQUIPMENT

Kit Location FRAA (Bldg. 14) Type: Emergency Locker Inventory Date: \_\_\_\_\_  
Inventory Performed \_\_\_\_\_ Reviewed: \_\_\_\_\_ Date: \_\_\_\_\_  
and Equipment Verified By Dept. Supervisor  
Locked or Sealed

Reason for Inventory: Quarterly Requirement • Post Drill • Other (explain in Remarks) •

ITEM	NUMBER REQUIRED	COMMENTS
Button Source	1	
Dose Rate Meter (0-1R/Hr.)	2	
Frisker w/probe & power cable	3	
Area Radiation Monitor w/alarm	1	
Air Sampler, Continuous Monitoring w/alarm	1	
Dosimeter, 0-200 mRem	10	
Protective Clothing (Full Set)	20	
Duct Tape (2 inch roll)	12	
Poly Sheets (4 ft. x 8 ft.)	5	
Particulate Air Sample Filter	Approx. 100	
Smear Disc	Approx. 500	
Sample Envelope	Approx. 500	
Water Sample Bottle	10	

Emergency Preparedness Department Review \_\_\_\_\_/\_\_\_\_\_  
Initials Date

Remarks:

E1-19

APPENDIX A-12 (continued)  
INVENTORY FORM - EMERGENCY EQUIPMENT

Kit Location FRAA (Bldg. 14) Type: Emergency Locker Inventory Date: \_\_\_\_\_

Inventory Performed \_\_\_\_\_ Reviewed: \_\_\_\_\_ Date: \_\_\_\_\_  
and Equipment Verified \_\_\_\_\_  
Locked or Sealed By Dept. Supervisor

Reason for Inventory: Quarterly Requirement • Post Drill • Other (explain in Remarks) •

ITEM	NUMBER REQUIRED	COMMENTS
Poly Bag (Medium)	25	
Radiological Warning Signs	20	
Control Point Access Ticket	15	
Personnel Clothing Contamination Survey Form	Approx. 100	
Personnel Contamination Survey Form	Approx. 100	
Facility Rad Con Survey Map	Approx. 10	
Bull Horn	2	Verify Operational
Towels (paper)	Approx. 100	
Herculite (ft.)	Approx. 100	
Bottles, Liquid Waste (15 Gal.)	5	
Step-off Pad	5	
Boots (Pairs)	Approx. 50 Pr.	
Sponges	Approx. 100	
Soap (Bars)	2	
Rad Material Stickers	Approx. 100	
Radiation Warning Rope (ft.)	Approx. 600	
Emergency Message Forms	50	

Emergency Preparedness Department Review \_\_\_\_\_/\_\_\_\_\_  
Initials Date

Remarks:

**NOTE: G.E.T. SUPPLIES ARE AN AVAILABLE RESOURCE**

El-20

APPENDIX A-13  
INVENTORY FORM - EMERGENCY EQUIPMENT

Kit Location Emergency Assembly Area (OCAB) Type: Emergency Locker Inventory Date: \_\_\_\_\_

Inventory Performed \_\_\_\_\_ Reviewed: \_\_\_\_\_ Date: \_\_\_\_\_  
and Equipment Verified \_\_\_\_\_ By Dept. Supervisor  
Locked or Sealed

Reason for Inventory: Quarterly Requirement • Post Drill • Other (explain in Remarks) •

ITEM	NUMBER REQUIRED	COMMENTS
Button Source	1	
Dose Rate Meter w/batt. (0-1R/Hr.)	1	
Frisker w/probe & power cable	1	
Area Rad Monitor w/alarm (AM-2)	1	
Air Sampler, Low Vol. RAS 1	1	
Particulate Air Sample Filter	50	
Silver Zeolite Cartridge GY130	10	
Duct Tape (2 inch roll)	1	
Smear Disc	Approx. 100	
Sample Envelopes	Approx. 100	
Radiation Warning Rope or Ribbon	Approx. 200 ft	
Radiological Warning Signs	5	
Rad Materials Stickers	20	
Step-off Pads	2	
Poly Bags (Medium)	10	
Facility Rad Con Survey Maps	10	
Personnel Clothing Contamination Survey Form	Approx. 50	
Personnel Contamination Survey Form	Approx. 50	

Emergency Preparedness Department Review \_\_\_\_\_ / \_\_\_\_\_  
Initials Date

Remarks:

APPENDIX B-1

Monitoring Kit Inventory Checklist For Three FMT's

Building 12

ITEM:	Number Req.	Number Req.	Number Req.
Monitoring Kit Instrument Locker	#2915	#2916	Spare
Vehicle Number	1	1	1
Button Source	1	1	1
Dose Rate Meter and Probe w/cables	3	3	3
Count Rate Meter (0-50 KCPM) and Probe w/cables	1	1	1
Frisker w/pancake type probe	1	1	1
Air Sampler Hi Vol H809V	1	1	1
Air Sampler Hi Vol H809C DC only	1	1	1
Map of Offsite Monitoring Points	1	1	1
Procedure EPIP-OC-.11 at Building 12	1	1	1
EPIP-OC-.11 Exhibit 1 Field Monitoring Team Checklist	5	5	5
EPIP-OC-.11 Exhibit 2 OCNGS FMT Activation Checklist	5	5	5
EPIP-OC-.11 Exhibit 2B Dose Rate & Count Rate Instr Op Ck.	5	5	5
EPIP-OC-.11 Exhibit 2C AC Air Sampler Op Check	2	2	2
EPIP-OC-.11 Exhibit 2D DC Air Sampler Op Check	2	2	2
EPIP-OC-.11 Exhibit 3 OCNGS FMT Termination Checklist	2	2	2
EPIP-OC-.11 Exhibit 12 Offsite Monitoring Points	1	1	1
EPIP-OC-.11 Exhibit 14 Offsite Radiolog/Environ. Team Survey Log	5	5	5
EPIP-OC-.11 Exhibit 15 Sample Record	5	5	5
EPIP-OC-.11 Exhibit 16 Countrate Survey Record	5	5	5
EPIP-OC-.11 Exhibit 17 Environmental Sample	2	2	2
Dosimeter 0-200 mRem	4	4	4
Dosimeter 0-1500 mRem	4	4	4
Badge, TLD Holder w/TLD Chips	2	2	2
Cellular Phones	1	1	1
<u>MONITORING KIT (VEHICLE):</u>			
Duct Tape (2 Inch Roll)	2	2	2
Paper PC's	4	4	4
Shoe Covers (pairs)	12	12	12
Paper Hoods	4	4	4
Dosimetry Charger	1	1	1
Poly Sheets (4 ft. x 8 ft.)	2	2	2
Silver Zeolite Cartridge (GY-130)	10	10	10
Two Way Radio (Portable or Truck Mounted)	1	1	1
Smear Disc (package of 100 each)	3	3	3
Sample Envelopes	Approx 100	Approx 100	Approx 100
Water Sample Bottle	10	10	10
Soil Sample Container	10	10	10



APPENDIX B-1 (continued)

Monitoring Kit Inventory Checklist

Building 12

ITEM:	Number Req.	Number Req.	Number Req.
Monitoring Kit			
Vehicle Number	#2915	#2916	Spare
Flashlight	2	2	2
Surgeons Gloves (Box of Each)	1	1	1
Silver Zeolite Cartridge Sample Labels	15	15	15
Radiation Warning Rope (ft.)	Approx. 100	Approx. 100	Approx. 100
Writing Tablet	2	2	2
Marking Pen	2	2	2
Clipboard	2	2	2
Wax Pencil	2	2	2
Waterproof Marker	2	2	2
Poly Bag (Medium)	25	25	25
Biotic Media Sample Labels	15	15	15
Radiological Warning Signs	5	5	5
Dimes for Telephones	10	10	10
Trowel	1	1	1
Tweezers	1	1	1
Clippers	1	1	1
Control Point Access Ticket	10	10	10
Key (JD-1, LB-2, LA-1, FRH-6)	1 Ea.	1 Ea.	1 Ea.
First Aid Kit	1	1	1
Life Preservers	2	2	2

Inventory Performed \_\_\_\_\_ Date \_\_\_\_\_  
and Equipment Verified \_\_\_\_\_  
Locked or Sealed \_\_\_\_\_

Reviewed By: \_\_\_\_\_ Date: \_\_\_\_\_  
Dept. Supervisor \_\_\_\_\_

Reason for Inventory: Quarterly Requirement • Post Drill • Other •  
Explain in Remarks \_\_\_\_\_

Emerg. Prep. Department Review \_\_\_\_\_ Date: \_\_\_\_\_  
Initials \_\_\_\_\_

Remarks:

APPENDIX B-2  
INVENTORY FORM - EMERGENCY EQUIPMENT

Kit Location Rad Con Vehicle on Site/Emergency Van

Type: Monitoring Kit Inventory Date: \_\_\_\_\_

Inventory Performed \_\_\_\_\_  
Equipment Verified \_\_\_\_\_  
Locked or Sealed \_\_\_\_\_

Reviewed: \_\_\_\_\_ Date: \_\_\_\_\_ and  
By Dept. Supervisor

Reason for Inventory: Quarterly Requirement • Post Drill • Other (explain in Remarks) •

ITEM	NUMBER REQUIRED	COMMENTS
Button Source	1	
Dose Rate and Probe w/cables, see Note	1	
Count Rate Meter (0-50K CPM and Probe w/cable), see Note	2	
Air Sampler, Hi Vol. H809C DC, see Note	1	
Air Sampler, Lo Vol.	2	
Map of Off Site Monitoring Points	1	
Procedure EPIP-OC-.10	1	
EPIP-OC-.10 Survey Form	15	
EPIP-OC-.10 Sample Record	15	
Procedure EPIP-OC-.11	1	
EPIP-OC-.11 Off Site Rad/Env Survey Team Log	15	
EPIP-OC-.11 Sample Record	15	
EPIP-OC-.11 Count Rate Survey Record	15	
Vehicle Key Set	1	

Emergency Preparedness Department Review \_\_\_\_\_/\_\_\_\_\_  
Initials Date

Note: Stored in Radcon AOB Lunch Room "On Charge"

Remarks:

APPENDIX B-2 (continued)  
INVENTORY FORM - EMERGENCY EQUIPMENT

Kit Location Rad Con Vehicle On Site/Emergency Van Type: Monitoring Kit Inventory Date: \_\_\_\_\_  
Inventory Performed \_\_\_\_\_ Reviewed: \_\_\_\_\_ Date: \_\_\_\_\_  
and Equipment Verified By Dept. Supervisor  
Locked or Sealed

Reason for Inventory: Quarterly Requirement • Post Drill • Other (explain in Remarks) •

ITEM	NUMBER REQUIRED	COMMENTS
Dosimeter 0-1500 mRem	2	
Badge, TLD Holder w/TLD Chips	2	
Dosimetry Charger	1	
Duct Tape (2 inch roll)	2	
Tweezers	1	
Clippers	1	
Control Point Access Ticket	10	
Key (JD-1)	1	
Key (Met Tower)	1	
First Aid Kit	1	
Poly Sheets (4 ft. x 8 ft.)	2	
Silver Zeolite Cartridges GY-130	10	
Two Way Radio (Portable or Truck member)	1	
Smear Disc (Package 100)	2	

Emergency Preparedness Department Review \_\_\_\_\_/\_\_\_\_\_  
Initials Date

Remarks:

APPENDIX B-2 (continued)  
INVENTORY FORM - EMERGENCY EQUIPMENT

Kit Location Rad Con Vehicle On Site/Emergency Van Type: Monitoring Kit Inventory Date: \_\_\_\_\_

Inventory Performed \_\_\_\_\_ Reviewed: \_\_\_\_\_ Date: \_\_\_\_\_  
and Equipment Verified By Dept. Supervisor  
Locked or Sealed

Reason for Inventory: Quarterly Requirement • Post Drill • Other (explain in Remarks) •

ITEM	NUMBER REQUIRED	COMMENTS
Sample Envelopes	Approx. 200	
Water Sample Bottle	10	
Soil Sample Container	10	
Particulate Filters	50	
Flashlight	2	
Surgeons Gloves (Box)	1	
Rad Warning Rope (ft.)	Approx. 100	
Writing Tablet	2	
Marking Pen	2	
Clipboards	2	
Wax Pencil	2	
Waterproof Marker	2	
Poly Bag (Medium)	25	
Biotic Media Sample Labels	15	
Radiological Warning Signs	5	
Trowel	1	
FFNP w/GMI-H Respirators/w Filter	4	

Emergency Preparedness Department Review \_\_\_\_\_ / \_\_\_\_\_  
Initials Date

Remarks:

Title

**EMERGENCY RESPONSE FACILITIES & EQUIPMENT MAINTENANCE**

Revision No.

**7**

APPENDIX C

Emergency Chemistry Equipment

	<u>Location</u>	<u>Kit</u>
C-1	OSC (Hallway)	No. 5 and 6
C-2	PASS Room	Counter, Drawers, Cabinet, and Hood

APPENDIX C-1  
INVENTORY FORM - EMERGENCY EQUIPMENT

Kit Location OSC (Hallway) Kit Number 5 and 6 Type: Emergency Chemistry Equipment Inventory Date: \_\_\_\_\_

Inventory Performed \_\_\_\_\_ Reviewed: \_\_\_\_\_  
and Equipment Verified \_\_\_\_\_ By Dept. Supervisor \_\_\_\_\_  
Locked or Sealed \_\_\_\_\_

Date: \_\_\_\_\_

Reason for Inventory: Quarterly Requirement • Post Drill • Other (explain in Remarks) •

ITEM	NUMBER REQUIRED	COMMENTS
Remote Handling Tools	5	
Particulate Filter Cask	1	
Iodine Cartridge Cask	1	
Noble Gas Sample Cask w/insert	1	
Particulate/Iodine Sample Holder (Loaded-Sealed in Plastic Bag	1	
Particulate Filters (47mm dia.)	20	
Remote Valve Handling Tool	1	
Iodine Sample Cartridges	5	
Remote Handling Tool Heads	3	
Septum Bottles (15cc)	10	
Gas Marinelli Flask w/valves (1000cc)	1	

Emergency Preparedness Department Review \_\_\_\_\_/\_\_\_\_\_  
Initials Date

Remarks:

APPENDIX C-1 (continued)  
INVENTORY FORM - EMERGENCY EQUIPMENT

Kit Location OSC (Hallway) Kit Number 5 and 6 Type: Emergency Chemistry Equipment Inventory Date: \_\_\_\_\_

Inventory Performed \_\_\_\_\_ Reviewed: \_\_\_\_\_ Date: \_\_\_\_\_  
and Equipment Verified \_\_\_\_\_ By Dept. Supervisor  
Locked or Sealed

Reason for Inventory: Quarterly Requirement • Post Drill • Other (explain in Remarks) •

ITEM	NUMBER REQUIRED	COMMENTS
Electric Air Sampling Pump	1	
Vacuum Pump, Hand Operated	1	
Vacuum Tubing w/fittings 1/10 ft. long - 2/2 ft. long	3	
Plastic Bottles (1 liter)	6	
Electric Vacuum Pump	1	
Gas Sample Centering Inserts	3	
Extension Cords	2	
Particulate/Iodine Sample Holder	1	
Hot Filter Transport Rod (2 pieces)	1	
Ragems Particulate Filters	10	
Ragems Cartridge Holders	2	

Emergency Preparedness Department Review \_\_\_\_\_/\_\_\_\_\_

Initials Date

Remarks:

APPENDIX C-2  
INVENTORY FORM - EMERGENCY EQUIPMENT

Kit Location Pass Room Counter, Drawers, Cabinets and Hood Type: Emergency Chemistry Equipment Inventory Date: \_\_\_\_\_

Inventory Performed \_\_\_\_\_ Reviewed: \_\_\_\_\_ Date: \_\_\_\_\_  
By Dept. Supervisor

Reason for Inventory: Quarterly Requirement • Post Drill • Other (explain in Remarks) •

ITEM	NUMBER REQUIRED	COMMENTS
Remote Handling Tools	5	
Particulate Filter Cask	1	
Iodine Cartridge Cask	1	
Noble Gas Sample Cask w/insert	1	
Particulate Filters (47mm dia.)	20	
Gas Vial Septums	25	
Liquid Vial Septums	25	
Small Vol. Sample Vials (prepared)	10	
Large Vol. Sample Vials (prepared)	10	
10" Gas Needles	6	
Liquid Syringes 10cc	4	
Sample Holder	1	

Emergency Preparedness Department Review \_\_\_\_\_ / \_\_\_\_\_  
Initials Date

Remarks:



APPENDIX C-2 (continued)  
INVENTORY FORM - EMERGENCY EQUIPMENT

Kit Location Pass Room Counter, Drawers, Cabinets and Hood Type: Emergency Chemistry Equipment Inventory Date: \_\_\_\_\_

Inventory Performed \_\_\_\_\_ Reviewed: \_\_\_\_\_ Date: \_\_\_\_\_  
and Equipment Verified \_\_\_\_\_ By Dept. Supervisor  
Locked or Sealed

Reason for Inventory: Quarterly Requirement • Post Drill • Other (explain in Remarks) •

ITEM	NUMBER REQUIRED	COMMENTS
Remote Handling Tool (36 inch)	1	
Capping Tool	1	
Iodine Sample Cartridges	8	
Septum Bottles (15cc)	10	
Gas Sample Centering Inserts	2	
Liquid Sample Centering Inserts	2	
Decapping Tool	1	
Mirror	1	
Needle Changing Tool	1	
Liquid Sample Cask	1	
Small Cask for Shipping	1	
Large Cask for Shipping	1	
Gas Dilution Shield Assemblies	3	
Liquid Dilution Shield Assemblies	3	

Emergency Preparedness Department Review \_\_\_\_\_ / \_\_\_\_\_  
Initials Date

Remarks:

APPENDIX D

Emergency Maintenance Equipment

Location

Locker

Turbine Building Elevation:

0 ft., North adjacent to East Condenser  
Bay Entrance

No. 1

3 ft., Stairwell adjacent to High-Low  
Conductivity Room

No. 2

Reactor Building South East Corner  
Stairwell Landing, Elevation:

51 ft.  
95 ft.

No. 3  
No. 4

Title  
**EMERGENCY RESPONSE FACILITIES & EQUIPMENT MAINTENANCE**

Revision No.  
**7**

APPENDIX D (continued)

Emergency Maintenance Locker Inventory Checklist

ITEM:		
EMERGENCY MAINTENANCE LOCKERS 1, 2, 3, 4		
BANDING KIT CONTENTS:	NUMBER REQUIRED EACH LOCKER	COMMENTS
Canvas Tool Satchel #5102-16	1	
Bandit Tool	1	
SS Banding, 1/2"	Approx. 50 ft.	
SS Banding Buckles, 1/2"	Approx. 100	
SS Banding, 3/4"	Approx. 50 ft.	
SS Banding Buckles, 3/4"	Approx. 100	
Rubber Sheet, 1/4"-10'	1	
Sheet Lead, 1'6" x 6'-1/4"	2	
Cold Chisel, 2-1/2"	1	
Ball Peen Hammer, 32 oz.	1	
Assorted Hose Clamps	1 doz.	
TOOL KIT CONTENTS:	NUMBER REQUIRED	
Canvas Tool Satchel #5102-24	1	
Ripping Bars, 24"	2	
Crescent Wrench, 8"	1	
Crescent Wrench, 10"	1	
Crescent Wrench, 12"	1	
Crescent Wrench, 18"	1	
Ball Peen Hammer, 32 oz.	1	
Flat Blade Screw Driver, 4"	1	

Title

**EMERGENCY RESPONSE FACILITIES & EQUIPMENT MAINTENANCE**

Revision No.

**7**APPENDIX D (continued)Emergency Maintenance Locker Inventory Checklist

EMERGENCY MAINTENANCE LOCKERS 1, 2, 3, 4		
TOOL KIT CONTENTS: (cont'd)	NUMBER REQUIRED EACH LOCKER	COMMENTS
No. 2 Phillips Screw Driver, 4"	1	
Flat Blade Screw Driver, 6"	1	
No. 3 Phillips Screw Driver, 6"	1	
Flat Blade Screw Driver, 8"	1	
No. 2 Phillips Screw Driver, 8"	1	
Flat Blade Screw Driver, 10"	1	
No. 4 Phillips Screw Driver, 10"	1	
Aluminum Pipe Wrench, 10"	1	
Aluminum Pipe Wrench, 14"	1	
Aluminum Pipe Wrench, 18"	1	
pliers, 9"	1	
Vice Grips	1	
Channel Locks	1	
Flashlight	1	
One Pound Roll of Twine	1	
Polypropelene Rope, 3/8", 50 ft.	1	
Fiberglass Blanket	1	
Tapered Hardwood Plugs, 4"	2	
Maul, 4 lb.	1	
Fire Axe	1	
Bolt Cutters, 24"	1	
Hacksaw w/Blade	1	
Hacksaw Blades	1	
Cross Cut Hand Saw	1	

Title

**EMERGENCY RESPONSE FACILITIES & EQUIPMENT MAINTENANCE**

Revision No.

**7**APPENDIX D (continued)Emergency Maintenance Locker Inventory Checklist

EMERGENCY MAINTENANCE LOCKERS 1, 2, 3, 4		
ELECTRICIAN KIT CONTENTS:	NUMBER REQUIRED EACH LOCKER	COMMENTS
Flat Blade Screw Driver, 4"	1	
No. 2 Phillips Screw Driver, 4"	1	
Flat Blade Screw Driver, 6"	1	
No. 3 Phillips Screw Driver, 6"	1	
Flat Blade Screw Driver, 8"	1	
No. 2 Phillips Screw Driver, 8"	1	
Flat Blade Screw Driver, 10"	1	
No. 4 Phillips Screw Driver, 10"	1	
Side Cutters	1	
Channel Locks	1	
Simpson Multimeter with Leads	1	
14 Gauge Wire, 10 ft.	1	
Assorted Clips & Leads (Set)	1	
Crimper Pliers	1	
Scotch 33 Vinyl Electricians Tape (1" Roll)	1	
Amp probe, AC	1	
Flashlight w/Batteries	1	
Operator's Manual (Simpson)	1	
9V Battery & 1D-Cell Battery	1	

☐

No Deficiencies

☐Deficiencies were found,  
description/remarks/corrective action below

Reason for inventory (Check as applicable)

☐

Quarterly

☐

Post Drill

☐Inventoried by: \_\_\_\_\_  
(Signature)\_\_\_\_\_  
(Date)Department Supervisor Review: \_\_\_\_\_  
(Signature)\_\_\_\_\_  
(Date)Emergency Preparedness Dept. Review \_\_\_\_\_  
(Initials)\_\_\_\_\_  
(Date)

Title  
**EMERGENCY RESPONSE FACILITIES & EQUIPMENT MAINTENANCE**

Revision No.  
**7**

APPENDIX E

Emergency First Aid and Rescue Equipment

<u>Location</u>	<u>Kit/Locker/Stretcher</u>
Control Room, GSS Office	Trauma Kit (W/02 resuscitator)
New Radwaste Bldg. Control Room	Stretcher
Reactor Building Elevation:	
23 ft. adjacent to Stairwell Entrance	Stretcher
23 ft. adjacent to Elevator	Stretcher/Extrication Locker (RB-EL23) w/Trauma Kit
51 ft. adjacent to Elevator	Stretcher
75 ft. adjacent to Elevator	Stretcher
119 ft. adjacent to Elevator	Stretcher
119 ft. Stairwell Landing	Extrication Locker (RB-EL119) w/Trauma Kit
Turbine Building Elevation:	
46 ft. adjacent to P.C. Change Area	Stretcher/Extrication Locker (TB-EL46) w/Trauma Kit
23 ft. adjacent to Elevator	Stretcher
0 ft. North, adjacent to Condenser Bay Entrance	Stretcher
0 ft. South, adjacent to Condenser Bay Entrance	Stretcher
Main Office Bldg., Third Floor adjacent to Rad Con Monitor and Control Point	Stretcher
Main Gate Processing Center, South Wall	Stretcher/Trauma Kit
Human Resources, Building 12 or 14, Forked River	Trauma Kit
Ambulance, Designated Parking Area	Trauma Kit

Title  
**EMERGENCY RESPONSE FACILITIES & EQUIPMENT MAINTENANCE**

Revision No.  
**7**

APPENDIX E (continued)

Emergency First Aid and Rescue Equipment Inventory Checklist

Extrication Locker Equipment

LOCKER NUMBERS: TB-EL46, RB-EL23, RB-EL119	NUMBER REQUIRED EACH LOCKER			COMMENTS
EQUIPMENT LIST	RECOMMENDED			
	TBOF	RX-119'	RX-23'	
1/2" Rope ~200'	1	1	1	
1/2" Rope ~150'	2	2	2	
7/16" Rope ~48'	3	3	3	
Full Body Red Harnesses	2	2	2	
Large Carabineers	7	7	7	
X Large Carabineers	2	2	2	
Pulleys	3	3	3	
Gibbs Ascender	2	2	2	
Break bar	1	1	1	
Webbing	1	1	1	
Anchor Straps	4	4	4	
Australian Gold 4-1 Haul sys w/pulleys	1	1	0	
Figure 8 with ears	1	1	1	
Locker with Lock	1	1	1	
Pillow	1	1	1	
Blanket	1	1	1	
Leather Gloves	10	10	10	
Trauma Kit	1	1	1	

**NOTE:** Locker seal to be inspected quarterly to confirm intact. Complete inventory performed annually.

Title  
**EMERGENCY RESPONSE FACILITIES & EQUIPMENT MAINTENANCE**

Revision No.  
**7**

APPENDIX E (continued)

Emergency First Aid and Rescue Equipment Inventory Checklist

STRETCHER STATIONS

STRETCHER LOCATIONS	NUMBER REQUIRED	COMMENTS
New Radwaste, 46 ft. el.	1 Ea.	
REACTOR BUILDING ELEVATION:		
23 ft. (Elevator)	1 Ea.	
23 ft. (Drywell Entrance)	1 Ea.	
51 ft. (Elevator)	1 Ea.	
75 ft. (Elevator)	1 Ea.	
119 ft. (Elevator)	1 Ea.	
TURBINE BUILDING ELEVATION:		
46 ft. (Elevator)	1 Ea.	
23 ft. (Elevator)	1 Ea.	
0 ft. North	1 Ea.	
0 ft. South	1 Ea.	
Main Office Bldg. Third Floor	1 Ea.	
Main Gate Processing Center	1 Ea.	



Title

**EMERGENCY RESPONSE FACILITIES & EQUIPMENT MAINTENANCE**

Revision No.

**7**APPENDIX E (Continued)TRAUMA KIT LOCATIONSTB-EL46, RB-EL23, RB-EL119, CONTROL ROOM, MAIN GATE, BLDG. 12 OR 14, AMBULANCE

FACILITY LOCKER TRAUMA KIT CONTENTS:	NUMBER REQUIRED	COMMENTS
Container, Trauma Kit	1 Each	
Gloves (Pair)	5 Each	
Face Shields	2 Each	
Pocket Mask/(CPR Shield)	1 Each	
Arm Splints	2 Each	
Ice Packs	2 Each	
Stethoscope	1 Each	
Triangular Bandage	10 Each	
Ace Bandage, 3 inch	3 Each	
Gauze Bandage	3 Each	
Dressings Assorted	5 Each	
Combine Dressing	3 Each	
Eye Pads	2 Each	
Tape, 1 Inch Roll	1 Each	
Scissors	1 Each	

☐

No Deficiencies

☐Deficiencies were found,  
description/remarks/corrective action below

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Reason for inventory (Check as applicable).

☐

Quarterly

☐

Post Drill

☐Inventoried by: \_\_\_\_\_  
(Signature)\_\_\_\_\_  
(Date)Department Supervisor Review: \_\_\_\_\_  
(Signature)\_\_\_\_\_  
(Date)Emergency Preparedness Dept. Review \_\_\_\_\_  
(Initials)\_\_\_\_\_  
(Date)

Title

**EMERGENCY RESPONSE FACILITIES & EQUIPMENT MAINTENANCE**

Revision No.

**7**APPENDIX F

## ENVIRONMENTAL ASSESSMENT COMMAND CENTER MASTER CHECKLIST

The following Emergency Planning equipment has been checked:

ITEMCIRCLE ONE (YES OR NO)

Field Monitoring Team (FMT) radio present and operational?	YES / NO
COMMENTS:	
Telephone Lines including Environmental Direct Line Assessment Operational?	YES / NO
COMMENTS:	
EOF Dose Summary visual aid projector operational?	YES / NO
COMMENTS:	
Reuter-Stokes modem and printer operational?	YES / NO
COMMENTS:	
Emergency Planning Zone (EPZ) board clean?	YES / NO
COMMENTS:	

## Post-Drill Inventory Items

Ensure EPIP-OC-.31 and Emergency Dose Calculation Manual (6632-ADM-4010.03) are available?	YES / NO
COMMENTS:	
Ensure copies of EPIP-OC-.31 Exhibit 1, 2, 3, and 4 are available?	YES / NO
COMMENTS:	
Offsite Dose Assessment computer checklist complete?	YES / NO
COMMENTS:	

DATE OF TEST: \_\_\_\_\_

SIGNATURE OF TESTER: \_\_\_\_\_

EMERGENCY PREPAREDNESS

DEPARTMENT REVIEW: \_\_\_\_\_  
Initials

Title

**EMERGENCY RESPONSE FACILITIES & EQUIPMENT MAINTENANCE**

Revision No.

**7**

APPENDIX G

Emergency Facilities Equipment Inventory Checklist

Facility

Location

Section 1 - Site Direct Support Facilities:

Emergency Control Center (ECC)

OCNGS Control Room

Emergency Operations Facility (EOF)

Pineland Division Office  
Lakewood, New Jersey

Technical Support Center (TSC)

OCNGS Site Emergency Building

Operations Support Center (OSC)

Drywell Processing Center

Main Gate Processing Center (MGPC)

OCNGS

Title

**EMERGENCY RESPONSE FACILITIES & EQUIPMENT MAINTENANCE**

Revision No.

**7**APPENDIX G  
Section 1Emergency Facilities Equipment Inventory Checklist

ITEM:	ECC	EOF	TSC	OSC	MGPC
Emergency Preparedness Portable Radios w/charger Units	5		2	5	2
Emergency Preparedness Remote Base Radio Units	1	1	2	2	
State EMRAD Units		1			1
Facility Key Locker (Key Inventory Inside Locker)	1	1	1	1	
20' Battery Booster Cable		1			
Weather Radio					1
Flip Chart Pad		2	2	2	
Transparencies (Approx.)		50	50	50	
Emergency Operating Procs.		1	1		
DOCUMENTS:					
Emergency Staff Log Books	2	2	4	2	
Station Procedure Set	1	1	1		
Emergency Plan Implementation Procedure Set	2	1	3	1	1
Technical Specifications	1	1	1		
Updated Final Safety Analysis Report		1	1		
Emergency Plan (1000-PLN-1300.01)	1	1	1	1	
Selected Plant Prints File (ECC Complete Set)	1	1	1	1	
Position Specific Red Books		10	10		

☐

No Deficiencies

☐Deficiencies were found,  
description/remarks/corrective action below

Reason for inventory (Check as applicable)

☐

Quarterly

☐

Post Drill

☐

Inventoried by: \_\_\_\_\_

(Signature)

(Date)

Department Supervisor Review: \_\_\_\_\_

(Signature)

(Date)

Emergency Preparedness Dept. Review \_\_\_\_\_

(Initials)

(Date)

Title

**EMERGENCY RESPONSE FACILITIES & EQUIPMENT MAINTENANCE**

Revision No.

**7**

APPENDIX H

Emergency Offsite Dose Projection Computers

Facility

Location

Emergency Control Center (ECC) OCNGS

Control Room

Technical Support Center (TSC) and  
TSC Backup

OCNGS Site Emergency  
Building

Emergency Operations Facility (EOF) (EACC)

Pineland Division  
Office  
Lakewood, New Jersey

Title

**EMERGENCY RESPONSE FACILITIES & EQUIPMENT MAINTENANCE**

Revision No.

**7**

APPENDIX H  
(continued)

Emergency Offsite Dose Projection Computer Operability Test Instructions

Purpose:

The purpose of the following instructions is to assess the operability of the offsite dose projection computer to function as required to perform its emergency plan function. The offsite dose projection computing system should be tested four times a year by the person who is trained and assigned to use that system in its Emergency Plan capacity.

RESPONSIBILITIES:

It is the responsibility of the person performing the system test to:

- (1) Perform the test of the system per attached instructions and to create a record of that test which is to be forwarded to the Emergency Preparedness Manager for review.
- (2) Have the offsite dose projection system brought up to functional status if it fails any of the tests on three consecutive attempts.
- (3) Repeat the tests on those items that failed their initial quarterly test after repair has been effected.

**INSTRUCTIONS TO TEST OYSTER CREEK  
OFFSITE DOSE PROJECTION COMPUTER SYSTEM**

- (1) Have checklist available for use for offsite dose projection functionability test.
- (2) Check clock display on modem. If time is incorrect, follow attached instructions for setting of time.
- (3) Turn on IBM-PC, printer and screen and allow to warm up.
- (4) Initialize RAC program by entering "RAC" if not done automatically.
- (5) Update computer time and date if required.
- (6) Press "F3 Met Data" key
- (7) Wait for MET Data.
- (8) After final copy is automatically produced power down the computer, screen and printer.

Title

**EMERGENCY RESPONSE FACILITIES & EQUIPMENT MAINTENANCE**

Revision No.

**7**APPENDIX H  
(continued)

## Section 1

## CHECKLIST FOR OFFSITE DOSE PROJECTION COMPUTER

ECC

☐

TSC

☐

EACC

☐

Check if satisfactory, explain below if not:

- \_\_\_\_\_ IBM-PC present and has power available.
- \_\_\_\_\_ Modem present and operational.
- \_\_\_\_\_ Offsite dose projection program discs present.
- \_\_\_\_\_ Offsite dose projection program loads.
- \_\_\_\_\_ Printer present and has power.
- \_\_\_\_\_ Modem goes offhook and dial tone is heard.
- \_\_\_\_\_ Modem dials PCS number and PCS phone rings.
- \_\_\_\_\_ PCS answers and sends tone to modem.
- \_\_\_\_\_ Data from PCS Data is transmitted to IBM-PC.
- \_\_\_\_\_ Printer makes satisfactory copy.
- \_\_\_\_\_ Spare ream of paper available for printer.
- \_\_\_\_\_ Successful connection via LAN to national weather service  
Forecast Data (**EACC Only**).

Explanation of Deficiencies:

Date of test \_\_\_\_\_

Signature of tester \_\_\_\_\_

Emergency Preparedness Dept. Review \_\_\_\_\_ (Initials) \_\_\_\_\_ Date

Title  
**EMERGENCY RESPONSE FACILITIES & EQUIPMENT MAINTENANCE**

Revision No.  
**7**

APPENDIX I

Hospital Checklist

Hospital

Location

Southern Ocean County Hospital

1140 W. Bay Avenue  
Manahawkin, N.J. 08050

Community Medical Center

99 Highway 37 West  
Toms River, N.J. 08753



Title

**EMERGENCY RESPONSE FACILITIES & EQUIPMENT MAINTENANCE**

Revision No.

**7**APPENDIX I  
(Continued)HOSPITAL CHECKLISTFORSOUTHERN OCEAN COUNTY AND COMMUNITY MEDICAL CENTER

ITEM	QUANTITY EACH HOSPITAL	COMMENTS
SRD'S 0-200 Mr/Hr.	10	
SRD Reader	1	
Portable Dose Rate Meter 0-200Mr/Hr	1	
Minivol Air Sampler	1	
Count Rate Meter	1	
Air Sampler Particulate Filters	1 box	
Button Source	1	

☐ No Deficiencies☐ Deficiencies were found,  
description/remarks/corrective action below

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Reason for inventory (Check as applicable)

☐ Quarterly☐ Post Drill☐Inventoried by: \_\_\_\_\_  
(Signature)\_\_\_\_\_  
(Date)Department Supervisor Review: \_\_\_\_\_  
(Signature)\_\_\_\_\_  
(Date)Emergency Preparedness Dept. Review \_\_\_\_\_  
(Initials)\_\_\_\_\_  
(Date)

INVENTORY TRACKING FORM  
Appendix J

APP	LOCATION	DATE PERFORMED			
		1ST QUARTER	2ND QUARTER	3RD QUARTER	4TH QUARTER
A-1	Emergency Assembly Area (Warehouse)				
A-2	Emergency Control Center				
A-3	Remote Assembly Area (Berkeley)				
A-4	Operations Support Center				
A-5	Main Gate Processing Center				
A-6	Technical Support Center				
A-7	Emergency Operations Facility				
A-8	Emergency Respiratory Equipment Issue Facility				
A-9	Contaminated/Injured Worker Transport Kits Ambulance				
A-10	RWP Office				
A-11	RAA Transport Kit				
A-12	FRAA (Building 14)				
A-13	Emergency Assembly Area (OCAB Cafeteria)				
B-1	Field Monitoring Vans				
B-2	On Site Emergency Van				
C-1	Monitoring Kit 5 & 6				
C-2	Pass Room				
D	Emergency Maintenance Equipment				
E	First Aid/Rescue Equipment				
F	Environmental Assessment Command Center				
G-1	Emergency Control Center				
G-1	Emergency Operations Facility				
G-1	Tech Support Center				
G-1	Operations Support Center				
G-1	Main Gate Processing Center				
H-1	Emergency Control Center				
H-1	Tech Support Center				
H-1	Environmental Assessment Command Center				
I	Southern Ocean County Hospital				
I	Community Medical Center				

Emergency Preparedness Manager Quarterly Review

1ST QUARTER	2ND QUARTER	3RD QUARTER	4TH QUARTER

INITIAL AND DATE BLOCK.

Title

**PROMPT NOTIFICATION SYSTEM**

Revision No.

**2**

Applicability/Scope

Applies to work at Oyster Creek

Responsible Office

Emergency Preparedness

This document is within QA plan scope  
Safety Reviews Required

X Yes \_\_\_ No  
X Yes \_\_\_ No

Effective Date

Date of Sale

Prior Revision 1 incorporated the  
following Temporary Changes:

N/A

This Revision 2 incorporates the  
following Temporary Changes:

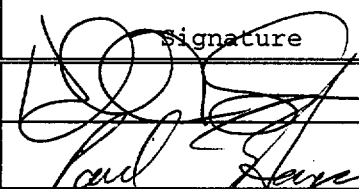

N/A

List of Pages (all pages rev'd to Rev. 2)

1.0 to 9.0  
E1-1  
E2-1  
E3-1 to E3-2  
E4-1 to E4-3  
E5-1 to E5-4  
E6-1 to E6-4  
E7-1 to E7-2  
E8-1  
E9-1 to E9-4  
E10-1  
E11-1

**NON-CONTROLLED  
This Document Will Not  
Be Kept Up To Date  
DCC Oyster Creek**

This procedure replaces Procedure 6430-ADM-1319.04

	Signature	Concurring Organization Element	Date
Originator		Emergency Planner	1/11/00
Approved By		Emergency Preparedness Mgr, OC	1/11/00



## Number

Title

Revision No.

## PROCEDURE HISTORY

REV	DATE	ORIGINATOR	SUMMARY OF CHANGE
7	10/94	A. Smith	Title change from Group Supervisor TE&M to Security OPS & Maint. Supervisor or DESIGNEE. Change heater surveillance from 3rd Qtr. to once a calendar year. Allow other person to perform tests other than GPU Energy Tech.
8	03/95	A. Smith	Clarify notification to the NJOEM and OCOEM concerning spurious siren activation. Add note not to reset sirens until field testing completed. Put yearly Growl Test by West Trenton in note form.
0	02/96	D. VanNortwick	Remove requirements/references for tone alert radios.
1	04/97	D. VanNortwick	Remove requirements/reference for Annual Growl Test from NJOEM Hqtrs West Trenton, NJ.
2	DOS	A. Smith	Change references from GPU or GPUN to OCNGS.

Title

**PROMPT NOTIFICATION SYSTEM**

Revision No.

**2****1.0 PURPOSE**

- 1.1 This procedure provides a basic description of the Oyster Creek Prompt Notification System (PNS), and describes the PNS Surveillance requirements.
- 1.2 The PNS consists of 42 sirens located throughout the 10 mile Emergency Planning Zone (EPZ) Exhibit 10. The sirens may be activated individually, or as an entire system. Full duration sounding (3 minutes) of the sirens alerts personnel in the EPZ to turn on their radios and/or televisions for emergency information provided under the Emergency Alert System (EAS). The PNS is maintained by OCNGS Nuclear and controlled at the Ocean County Sheriff's Office by appropriate County officials.

**2.0 APPLICABILITY/SCOPE**

- 2.1 This procedure applies to the routine administration and maintenance of the Prompt Notification System.
- 2.2 This procedure addresses the routine surveillance testing of the PNS system including System Status Test, Quarterly Growl Test, Annual Sounding, and testing of the Siren Freeze Protection.
- 2.3 Reports of Prompt Notification System malfunctions shall be reported in accordance with Procedure 126 "Procedure for Notification of Station Events".

**3.0 DEFINITIONS****3.1 Annual Test**

This verifies the Prompt Notification System operation with an actual activation of the system for three minutes and may be conducted in conjunction with a Plant exercise.

**3.2 Central Control Station (CCS)**

Module that consists of a microcomputer, color monitor, printer, and ATI REACT-1000 Central Control Unit (CCU) used to initiate activation and status monitoring functions.

**3.3 Central Control Unit (CCU)**

Module that consists of the processor system and an FM Radio that controls each Remote Station (Remote).

Title

**PROMPT NOTIFICATION SYSTEM**

Revision No.

**2****3.4 Growl**

Indicates that one of the two acoustic sensing devices has been triggered by the siren sounding.

**3.5 Mailing Year**

A period beginning January 1 and ending on December 31 of each year.

**3.6 No Reply**

Radio or Power Failure occurs when the Central Control Station cannot make radio contact with a Remote Unit.

**3.7 PNS - Oyster Creek Prompt Notification System.****3.8 Quarterly Growl Test**

This verifies the Prompt Notification System and including operation of the communications section the controller/motor of the siren. This test includes a short duration sounding of each siren.

**3.9 Radio Contact Status Normal**

Indicates that radio communication between the Central Control Station and the Remote Unit has been verified and that there are not abnormal sensor states at the Remote Unit.

**3.10 Remote Station (Remote)**

Module that consists of a Microprocessor Card, Input/Output Card, Communications Card, Bus Power Supply Card, Relay Control Card, Card Cage, Front Panel Assembly, Terminal Block Assembly Mounting Bracket, and an FM Radio.

**3.11 Siren Emergency**

A failure of PNS equipment that results in a loss of 10 or more sirens of the Prompt Notification System. This condition constitutes an emergency as described in the Agreement and Supplements between GPU Energy and Local Unions 327, -1289, 1298, 1303, 1309, 1314 (Clerical and Operation) of the International Brotherhood of Electrical Workers, Section 8.12.

3.11.1 IF 4 or more sirens Fail during a surveillance, repairs should begin as soon as possible.

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**2****3.12 Silent**

Indicates that the Silent Test Relay has been activated at the Remote Unit.

**3.13 Siren Overrun**

Indicates that the Siren Run condition has been sensed at the Remote unit for longer than the duration of the activation (3 minutes).

**3.14 Siren Run**

Indicates that the Remote Unit has sensed power to the siren.

**3.15 Sync Error**

Indicates that the Remote Unit has received a message which does not have the correct security code.

**3.16 System Status Test**

This verifies the operation of the communications section of the Prompt Notification System, but does not sound the siren.

**3.17 System Status Report**

A report displayed on the Central Control Station CRT and printed to the system printer providing the date and time and the status of each of the following siren functions.

- Siren Number
- Date
- Time
- AC Fail
- Door (Intrusion Alarm)

**4.0 PROCEDURE**

4.1 The Emergency Preparedness Manager - Oyster Creek shall ensure completion of the administrative actions identified in Exhibit 1 periodically as required.

4.2 Historical records will be maintained for each siren and major component of the PNS. This record will consist of periodic test results, maintenance history, and significant events affecting each siren such as inadvertent activation, damage, or vandalism.

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**2**

- 4.2.1 Records shall be maintained in accordance with the Divisions Records Retention Schedule.
- 4.3 Malfunctions of one or more sirens will be corrected in accordance with action identified in Exhibit 2.
- 4.4 Surveillances of the Prompt Notification System shall be completed using the appropriate exhibit for the specific surveillance required.
  - 4.4.1 Exhibit 3, Preliminary Setup
  - 4.4.2 Exhibit 4, System Status Test
  - 4.4.3 Exhibit 5, Quarterly Growl Test
  - 4.4.4 Exhibit 6, Annual Test
  - 4.4.5 Exhibit 7, Siren Freeze Protection
  - 4.4.6 Exhibit 8, Actions for Siren Malfunction During a Surveillance
- 4.5 Documentation
  - 4.5.1 The results of each test shall be documented by the Communications Technician or qualified person conducting the test by maintaining the System Status Reports and Activation Verification Reports.
  - 4.5.2 The completed reports and forms shall be reviewed by, Security/Opts. Maint. Supervisor or his designee.
    - 4.5.2.1 The reviewed documents shall be forwarded to the Oyster Creek Emergency Preparedness Section for retention.
  - 4.5.3 The Emergency Preparedness Section shall summarize the historical data for each siren.



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**2****5.0 RESPONSIBILITIES**

5.1 The Emergency Preparedness Manager - OC has overall responsibility for:

- 5.1.1 Ensuring periodic testing is performed in accordance with this procedure.
- 5.1.2 Ensuring records pertaining to the system are maintained.
- 5.1.3 Ensuring reports of test results are prepared in a timely manner.
- 5.1.4 Ensuring emergency repair for non-functioning PNS sirens are initiated.
- 5.1.5 Ensuring parts and materials required for system operation are maintained.

5.2 The Surveillance Coordinator is responsible for ensuring tracking completion of required surveillances described in this procedure.

5.3 In accordance with the New Jersey Radiological Emergency Response Plan (NJRRERP), the Emergency Management Coordinator, Ocean County is responsible for:

- 5.3.1 Directing the activation of the PNS during declared emergencies and when pre-arranged, during drills or exercises.
- 5.3.2 Arranging for alternate route alerting in municipalities affected by a non-functioning siren.
- 5.3.3 Notifying the Oyster Creek on-shift Site Shift Manager (SMM) of any report received of a spurious activation or malfunctioned siren.

- 5.4 Security, OPS & Maint. Supervisor or his designee.
- 5.4.1 Notifying the Emergency Preparedness Manager - OC during normal work hours, of any non-functioning system sirens.
- 5.4.1.1 The On-Duty Site Shift Manager (SMM) or designee shall be notified during off-normal work hours of any non-functioning system sirens.
- 5.4.2 Coordinating, scheduling, and supervising GPU Energy Telecommunications and Electronic Maintenance technicians in the activities required to maintain and test the system.
- 5.4.3 Providing the Emergency Preparedness Manager - OC with a list of spare parts and materials required to maintain the system operational.
- 5.4.4 Reviewing and forwarding Siren Test Results to Oyster Creek Emergency Preparedness Section upon completion of the appropriate tests.
- 5.5 The Oyster Creek on-shift Site Shift Manager (SSM) shall ensure the notifications specified in Procedure 126, "Procedure for Notification of Station Events" upon notification of an inadvertent activation or a failure of 4 or more sirens of the Prompt Notification System are performed.

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**2****6.0**    REFERENCES

- 6.1    2000-PLN-1300.01, OCNGS Emergency Plan.
- 6.2    NUREG 0654
- 6.3    10 CFR 50, Appendix E.
- 6.4    10 CFR 50.72
- 6.5    New Jersey Radiological Emergency Response Plan, Annex B, Oyster Creek.
- 6.6    Agreement between the County of Ocean and GPU Energy regarding Public Alert System - January 13, 1982.
- 6.7    OCNGS Procedure No. 126, Procedure for Notification of Station Events.

**7.0**    EXHIBITS

- 7.1    Exhibit 1, Prompt Notification System Administrative Tasks
- 7.2    Exhibit 2, Prompt Notification System Malfunctions
- 7.3    Exhibit 3, Prompt Notification System Surveillance Preliminary Setup
- 7.4    Exhibit 4, Prompt Notification System Surveillance System Status Test
- 7.5    Exhibit 5, Prompt Notification System Surveillance Quarterly Growl Test
- 7.6    Exhibit 6, Prompt Notification System Surveillance Annual Test
- 7.7    Exhibit 7, Prompt Notification System Surveillance Siren Freeze Protection
- 7.8    Exhibit 8, Prompt Notification System Surveillance actions for Siren Malfunction During a Surveillance
- 7.9    Exhibit 9, Prompt Notification System, Siren Location
- 7.10   Exhibit 10, Prompt Notification System Repair Record
- 7.11   Exhibit 11, PNS Historical Record

Title

**PROMPT NOTIFICATION SYSTEM**

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**2**EXHIBIT 1**PROMPT NOTIFICATION SYSTEM ADMINISTRATIVE TASKS**

- 1.0 Submit budgeting and funding request for maintenance and testing of the PNS.
- 2.0 Establish a surveillance schedule by December for the following year.
- 3.0 Ensure surveillances are conducted in accordance with established procedures.
- 4.0 Prepare a monthly report and distribute it to the New Jersey Office of Emergency Management. The report will summarize surveillance testing results and system operability, during the previous calendar month and year-to-date.
- 5.0 Prepare an annual report during the first quarter of each year that summarizes the PNS performance, improvements, and deficiencies encountered during the previous calendar year.
- 6.0 Prepare an annual certification that provides response to the requirement outlined in NUREG 0654 Appendix 3, Paragraph C.3.h. This report will be distributed to the New Jersey Office of Emergency Management.

Title

**PROMPT NOTIFICATION SYSTEM**

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**2**EXHIBIT 2

## PROMPT NOTIFICATION SYSTEM MALFUNCTIONS

- 1.0 When a siren malfunction is reported, the Control Room will notify the Emergency Preparedness Manager, who will in turn notify the Oyster Creek Security Shift Supervisor for repair.
- 1.1 Inadvertent Activation
- 1.1.1 The police organization of the affected municipality may notify the plant through site Security or the Control Room regarding the sounding of one or more sirens.
- 1.1.2 The Group Shift Supervisor shall ensure notifications of the inadvertent activation are made in accordance with Procedure 126, Enclosure 1, "Procedure for Notification of Station Events".
- 1.1.3 Connective Company has agreed to disconnect power to any siren within their territory that inadvertently activates and continues to sound.
- 1.1.4 The public should be notified of the inadvertent activation via the Emergency Alert System as delineated in the N.J. Radiological Emergency Response Plan via the N.J. Office of Emergency Management when verified by the Ocean County OEM via the Ocean County Sheriff's Department Communications Center. Upon verification, OCOEM or NJOEM will initiate the spurious siren activation EAS with the Gateway Radio Station.

Title

**PROMPT NOTIFICATION SYSTEM**

Revision No.

**2**EXHIBIT 3

## PROMPT NOTIFICATION SYSTEM SURVEILLANCE

## PRELIMINARY SETUP

The GPU Energy Technician or other qualified person shall perform the following actions prior to conducting a System Status Test, Quarterly Growl, or Annual Test of the prompt Notification System.

- 1.0 Power up the CCS if the system is secured and
  - 1.1 Observe self test of internal electronic indicated by momentary illumination of CCU front panel LED's
  - 1.2 Upon completion of diagnostic test, only the "STANDBY" LED should be illuminated.
  - 1.3 A problem with internal electronic is indicated by one or more flashing LED's.

Problem CardLED

I/O

ALERT

Communications

LOWER RIGHT  
ADDRESS SELECT

Microprocessor

THIRD FROM TOP  
ALARM SELECT

- 2.0 Insert the "Install Disk" in the disk drive.
- 3.0 Reboot the computer.
  - 3.1 Hold down the Control, Alternate, Delete keys simultaneously.
- 4.0 Type "START" and press "ENTER" key.
- 5.0 Observe the monitor displays:
- 6.0 "Welcome to the Oyster Creek Siren Monitoring System".

Title

**PROMPT NOTIFICATION SYSTEM**

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**2**EXHIBIT 3 (CONT'D)

## PROMPT NOTIFICATION SYSTEM SURVEILLANCE

## PRELIMINARY SETUP

- 7.0 Press any key.
- 8.0 Observe the monitor displays:
  - Monitor Mode On (current date) at (current time)
- 9.0 Observe the monitor displays Menu Box.
- 10.0 Set Date and Time
  - 10.1 Select OPTIONS, F1
  - 10.2 Select DATE/TIME
    - 10.2.1 Enter correct date in the form  
mm/dd/yyyy  
i.e. 01/15/1992
    - 10.2.2 Enter correct time in the form  
hh:mm:ss  
i.e. 09:30:00
    - 10.2.3 Observe correct time is displayed at top line following  
"Monitor Mode On"
- 11.0 Synchronize system.
  - 11.1 Select Siren Services, F3
  - 11.2 Select Synchronize Sirens
- 12.0 Reset Sirens
  - 12.1 Select Siren Services, F3
  - 12.2 Select Reset Sirens

Title

**PROMPT NOTIFICATION SYSTEM**

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**2**EXHIBIT 4

## PROMPT NOTIFICATION SYSTEM SURVEILLANCE

## SYSTEM STATUS TEST

- 1.0 The System Status Test is scheduled for Wednesday of every second week with a schedule tolerance of  $\pm 2$  days.
- 1.1 The System Status Test may be initiated as early as Monday of the scheduled week and shall be completed no later than Friday of the scheduled week. This provides a 5 day working window in which the test may be completed.
- 1.2 Conduct of System Status Test
- 1.2.1 Verify Date and Time displayed are correct.
- 1.2.2 If either requires correction complete the following steps:
- 1.2.2.1 Select OPTION, F1
- 1.2.2.2 Select DATE/TIME
- 1.2.2.3 Enter correct date in the form  
mm/dd/yyyy  
i.e. 01/15/1992
- 1.2.2.4 Enter correct time in the form  
hh:mm:ss  
i.e. 09:30:00
- 1.2.2.5 Observe correct date and time are displayed at the top line following "Monitor Mode On".



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EXHIBIT 4 (CONT'D)

PROMPT NOTIFICATION SYSTEM SURVEILLANCE

SYSTEM STATUS TEST

- 1.2.3 Poll Sirens
  - 1.2.3.1 Select Siren Services - F3
  - 1.2.3.2 Select Poll All Sirens Once
- 1.2.4 The GPU Energy Communications Technician or other qualified person conducting the System Status Test shall review the status of each siren on the System status Report to ensure all conditions are normal and shall conduct the following if an abnormal condition is reported:
  - 1.2.5 Synchronize Sirens
  - 1.2.6 Reset Sirens
  - 1.2.7 Poll each siren previously observed to have an abnormal condition reported.
  - 1.2.8 Select Siren Services F3.
  - 1.2.9 Select Poll a Single Siren.
  - 1.2.10 Enter Siren Address (Siren Number).
  - 1.2.11 Respond "Y" to Reset Siren Query.
  - 1.2.12 Respond "Y" to Print Single Poll Report Quarterly.
  - 1.2.13 Respond "Y" to Poll another Query if another requires individual testing otherwise respond "N".

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**PROMPT NOTIFICATION SYSTEM**

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**2**

EXHIBIT 4 (CONT'D)

PROMPT NOTIFICATION SYSTEM SURVEILLANCE

SYSTEM STATUS TEST

- 1.2.14 Identify each siren that continues to report an abnormal condition and notify the Security OPS & Maint. Supervisor that field testing is required.

NOTE

For malfunctioning sirens do not send a reset signal until field testing is completed.

- 1.2.15 The GPU Energy Technician or other qualified person shall collect the System Status Report and individual siren poll reports and forward to the Security, OPS & Maint. Supervisor. The following conditions are reportable as a failure of an individual siren:

- N/R No Reply
- AC Fail
- Uncorrectable Sync Error

Title

**PROMPT NOTIFICATION SYSTEM**

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**2**EXHIBIT 5

## PROMPT NOTIFICATION SYSTEM SURVEILLANCE

## QUARTERLY GROWL TEST

- 1.0 The Quarterly Growl Test is scheduled for one week every quarter (13 weeks) with a schedule tolerance of  $\pm 2$  weeks.
- 1.1 The Quarterly Growl Test may be initiated as early as Monday two weeks prior to the scheduled week and shall be completed no later than Sunday two weeks following the scheduled week. This provides a 5 week (35 day) working window in which the test may be completed.
- 1.2 The Quarterly Growl Test shall be conducted routinely via the Central Control Station at the Ocean County Sheriff's Office.
- 1.3 Growl Test Sirens
- 1.3.1 Verify Date and Time displayed are correct.
- 1.3.2 If either requires correction complete the following steps:
- 1.3.2.1 Select OPTION, F1
- 1.3.2.2 Select DATE/TIME
- 1.3.2.3 Enter correct date in the form  
mm/dd/yyyy  
i.e. 01/15/1992

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**PROMPT NOTIFICATION SYSTEM**

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**2**

EXHIBIT 5 (CONT'D)

PROMPT NOTIFICATION SYSTEM SURVEILLANCE

QUARTERLY GROWL TEST

1.3.2.4 Enter correct time in the form

hh:mm:ss

i.e. 09:30:00

1.3.2.5 Observe correct date and time are displayed at the top line following "Monitor Mode On".

1.3.3 Select ACTIVATION MODE F10.

1.3.4 Select ACTIVATE - F1.

1.3.5 Select GROWL - Press Enter.

1.3.6 Select TOTAL - Press Enter.

1.3.7 Observe ARM SIREN GROWL TEST and press ENTER.

1.3.8 Observe FIRE SIRENS GROWL TOTAL and press ENTER.

1.3.9 Observe GROWL - ALL SIRENS indicated.

1.3.10 Respond "Y" to Reset Sirens Query.

1.3.11 Respond "Y" to print ACTIVATION Summary/Report.

1.4 The GPU Energy Communications Technician or other qualified person conducting the Growl Test shall review the status of each siren on the Activation Summary Report to ensure the alarms are reported.

\* Siren Contactor

\* Growl

\* Siren Run

Title

**PROMPT NOTIFICATION SYSTEM**

Revision No.

**2**EXHIBIT 5 (CONT'D)

## PROMPT NOTIFICATION SYSTEM SURVEILLANCE

## QUARTERLY GROWL TEST

- 1.5 The GPU Energy Communications Technician or other qualified person performing test shall identify any siren that fails the Growl Test and shall notify Security, OPS & Maint. Supervisor that field testing is required.

NOTE

For malfunctioning sirens do not send a reset signal until field testing is completed.

- 1.6 The following conditions are reportable as a failure of an individual siren:

- \* N/R No Reply
- \* AC Fail with confirmed loss of one or more phases
- \* Uncorrectable Sync Error
- \* Siren Overrun Indication
- \* Lack of ALL of the following:
  - \*\* Siren Contactor Indication
  - \*\* Growl Indication
  - \*\* Sound Indication
  - \*\* Siren Run Indication

- 1.7 The GPU Energy Technician or other qualified person shall collect the Activation Verification Report and individual Siren Poll Reports and forward to The Security, OPS & Maint. Supervisor.

Title

**PROMPT NOTIFICATION SYSTEM**

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**2**EXHIBIT 5 (CONT'D)

## PROMPT NOTIFICATION SYSTEM SURVEILLANCE

## QUARTERLY GROW TEST

- 1.8 Following field repairs and testing, a GPU Energy Technician shall conduct an individual Growl Test from the Central Control Station for each siren requiring repair.
- 1.9 The individual Growl Test includes the following steps:
- 1.9.1 Select ACTIVATION MODE F10.
  - 1.9.2 Select ACTIVATE - F1.
  - 1.9.3 Select GROWL - Press Enter
  - 1.9.4 Select Single - Press Enter
  - 1.9.5 Observe SIREN ADDRESS ? is displayed.
  - 1.9.6 Enter siren number as address and press Enter.
  - 1.9.7 Observe ARM SIREN GROWL SIREN # is displayed and press Enter.
  - 1.9.8 Observe FIRE SIREN GROWL SIREN 3 is displayed and press Enter.
  - 1.9.9 Observe GROWL -Siren # is displayed.
  - 1.9.10 Respond "Y" to Reset Siren Query.
  - 1.9.11 Respond "Y" to Print ACTIVATION REPORT.
- 1.10 When completed testing all individual sirens, exit ACTIVATION MODE by completing the following steps:
- 1.10.1 Select Exit - F2
  - 1.10.2 Press Enter
  - 1.10.3 Observe the program has returned to the MONITOR MODE.
- 1.11 The GPU Energy Technician or qualified person performing test shall collect all the individual siren Growl Activation reports and forward to The Security, OPS & Maint. Supervisor.

EXHIBIT 6

PROMPT NOTIFICATION SYSTEM SURVEILLANCE

ANNUAL TEST

- 1.0 The Annual Test may be scheduled concurrently with the Plant Emergency Annual Exercise.
- 2.0 The Emergency Preparedness Manager - OC shall ensure the test requirements are established prior to the Annual Test.
- 3.0 The Annual Test is scheduled once every calendar year.
- 4.0 Conduct of Annual Test.
  - 4.1 Verify Date and Time displayed are correct.
  - 4.2 If either requires correction complete the following steps:
    - 4.2.1 Select OPTION, F1
    - 4.2.2 Select DATE/TIME
    - 4.2.3 Enter correct date in the form  
mm/dd/yyyy  
i.e. 01/15/1992
    - 4.2.4 Enter correct time in the form  
hh:mm:ss  
i.e. 09:30:00
    - 4.2.5 Observe correct date and time are displayed at the top line following "Monitor Mode On".
  - 4.3 Select Activation Mode (F10).
  - 4.4 Select Activate (F1).
  - 4.5 Select Alert and press ENTER.

Title

**PROMPT NOTIFICATION SYSTEM**

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**2**

EXHIBIT 6 (CONT'D)

PROMPT NOTIFICATION SYSTEM SURVEILLANCE

ANNUAL TEST

- 4.6 Select Total and press ENTER.
  - 4.7 Observe Arm Sirens and Alert Total is displayed and press ENTER.
  - 4.8 Observe Fire Sirens and Alert Total is displayed and press ENTER.
  - 4.9 Observe Count Down and Verifying Sirens is displayed.
  - 4.10 Observe individual status reports are displayed on CRT.
  - 4.11 Observe the Activation Verification Report is printed and CRT displays Monitor Mode.
- 5.0 The GPU Energy Communications Technician or other qualified person conducting the Annual Test shall review the status of each siren on the Activation Verification Report to ensure the alarms are reported.
- Siren Contactor
  - Growl
  - Siren Run
  - Sound
- 6.0 The Communications Technician or other qualified person conducting the Annual Test shall identify any siren that fails the Annual Test and shall notify The Security, OPS & Maint. Supervisor, that field testing is required.

NOTE

For malfunctioning sirens do not send a reset signal until field testing is completed.



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**PROMPT NOTIFICATION SYSTEM**

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**2**EXHIBIT 6 (CONT'D)

## PROMPT NOTIFICATION SYSTEM SURVEILLANCE

## ANNUAL TEST

7.0 The following conditions are reportable as a failure of an individual siren:

- \* N/R No Reply
- \* AC Fail with confirmed loss of one or more phases
- \* Uncorrectable Sync Error
- \* Siren Overrun Indication
- \* Lack of ALL of the following:
  - \*\* Siren Contactor Indication
  - \*\* Growl Indication
  - \*\* Sound Indication
  - \*\* Siren Run Indication

8.0 The Communications Technician or qualified person conducting test shall collect the Activation Verification Report and forward to The Security, OPS & Maint. Supervisor.

9.0 Following field repairs and testing, a Communications Technician or other qualified person shall conduct an individual ANNUAL TEST from the Central Control Station for each siren requiring repair.

10.0 The individual ANNUAL TEST includes the following steps:

- 10.1 Select ACTIVATION MODE F10.
- 10.2 Select ACTIVATE - F1.
- 10.3 Select ALERT - Press Enter
- 10.4 Select Single - Press Enter
- 10.5 Observe SIREN ADDRESS ? is displayed.

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**2**EXHIBIT 6 (CON'T)

## PROMPT NOTIFICATION SYSTEM SURVEILLANCE

## ANNUAL TEST

- 10.6 Enter siren number as address and press Enter.
- 10.7 Observe ARM SIREN ALERT SIREN # is displayed and press Enter.
- 10.8 Observe FIRE SIREN ALERT SIREN # is displayed and press Enter.
- 10.9 Observe ALERT -Siren # is displayed.
- 10.10 Respond "Y" to Reset Siren Query.
- 10.11 Respond "Y" to Print ACTIVATION REPORT.
- 11.0 When completed testing all individual sirens, exit ACTIVATION MODE by completing the following steps:
  - 11.1 Select Exit - F2
  - 11.2 Press Enter
  - 11.3 Observe the program has returned to the MONITOR MODE.
- 12.0 The Communications Technician or qualified person conducting test shall collect all the individual siren ALERT Activation reports and forward to The Security, OPS & Maint. Supervisor.

Title

**PROMPT NOTIFICATION SYSTEM**

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**2**

EXHIBIT 7

PROMPT NOTIFICATION SYSTEM SURVEILLANCE

SIREN FREEZE PROTECTION

- 1.0 The siren freeze protection consists of six 50 watt heaters connected in parallel for the single phase Banshee type sirens and eight 50 watt heaters connected in parallel for the three phase Cyclone type sirens.
- 2.0 The resistance and current value of each siren shall be measured by a GPU Energy communications tech or other qualified technician, at least once during each calendar year by completing the following steps:
  - 2.1 Remove the power fuse from the heaters.
  - 2.2 Using an appropriate VOM, measure the resistance of the parallel heaters.
  - 2.3 Record the resistance in the "Comments" section on Exhibit 11, Prompt Notification System Repair Record.
  - 2.4 Attach the appropriate VOM across the fuse block terminals to measure current.
  - 2.5 Ensure thermostat contact is closed. It may be necessary to use a cooling agent such as "Circuit Freeze" to reduce the physical temperature of the thermostat to ensure contact closure.
  - 2.6 Determine the current value and record in the "Comments" section on Exhibit 11.
  - 2.7 Remove the VOM.
  - 2.8 Reinstall the power fuse.
  - 2.9 Ensure the thermostat is set to approximately 400F.

Title

**PROMPT NOTIFICATION SYSTEM**

Revision No.

**2**EXHIBIT 7  
(continued)

## PROMPT NOTIFICATION SYSTEM SURVEILLANCE

## SIREN FREEZE PROTECTION

## 3.0 Heater Surveillance Test Result Criteria.

## 3.1 Acceptable measurement values for a one phase Banshee Siren are:

3.1.1 Amps  $2.6 \pm 20\%$  (2.1 - 3.1).3.1.2 Resistance (Ohms)  $45.5 \pm 20\%$  (36.4 - 54.6).

## 3.2 Acceptable measurement values for a three phase Cyclone Siren are:

3.2.1 Amps  $3.5 \pm 20\%$  (2.8 - 4.2).3.2.2 Resistance (Ohms)  $34.3 \pm 20\%$  (27.4 - 41.2).

Title

**PROMPT NOTIFICATION SYSTEM**

Revision No.

**2**EXHIBIT 8

## PROMPT NOTIFICATION SYSTEM SURVEILLANCE

## ACTIONS FOR SIREN MALFUNCTION DURING A SURVEILLANCE

- 1.0 The Communications Technician or person conducting test shall complete Exhibit 11. Record for any abnormal condition observed for the siren including:
  - Siren number
  - Description of malfunction to include method used to correct deficiencies
  - Date of observation
  - Date of repair
- 2.0 Determine Municipality and Location of Siren
  - 2.1 Select ACTIVATION MODE, F10
  - 2.2 Select LOCATION, F7
  - 2.3 Enter siren number and press Enter
    - 2.3.1 Observe Municipality and location
    - 2.3.2 Press Any Key to Continue
  - 2.4 Either enter another siren number or 0 (zero) and Enter to exit
  - 2.5 Select EXIT, F2
    - 2.5.1 Observe EXIT is displayed
    - 2.5.2 Press Enter to return to Monitor Mode.
- 3.0 The Communications Technician or person conducting test shall ensure the Emergency Preparedness Manager OC or his designee is informed during normal work hours or the On Duty Site Shift Manager during non-normal work hours of any non-function system sirens.

Title

**PROMPT NOTIFICATION SYSTEM**

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**2**EXHIBIT 9**PROMPT NOTIFICATION SYSTEM  
SIREN LOCATION**

SIREN NUMBER	LOCATION	MUNICIPALITY	TYPE	POWER SOURCE
1	South side of Rose Hill Rd. at Railroad Ave. 0.1 miles west of US Rt. 9	Barnegat	Cyclone	GPU Energy
3	East side of US Rt. 9 at Taylor Ln. 2.7 miles south of Bayshore Dr.	Barnegat	Banshee	GPU Energy
4	West side of Bayshore Dr. 1.8 miles east of US Rt. 9	Barnegat	Banshee	GPU Energy
5	South side of Bay Ave. at 10th St. 1.0 miles west of Garden State Parkway 2.5 miles west of US Rt. 9	Barnegat	Cyclone	GPU Energy
6	South side of State Rt. 72 0.2 miles east of Pancoast Rd.	Barnegat	Cyclone	Connective
7	Sough side of State Rt. 72 1.1 miles west of State Rt. 532 & State Rt. 610 Warren Grove Rd.	Barnegat	Cyclone	Connective
9	10th St. 0.1 miles west of Central Blvd.	Barnegat	Cyclone	Connective
11	East side of Berkeley Ave. at Birch St.	Beachwood	Cyclone	GPU Energy
13	South side of Butler at East Blvd. 0.9 miles east of US Rt. 9	Berkeley	Cyclone	GPU Energy
14	East side of Veteran's Blvd. at Downing Ave. Fire Station Park Lot	Berkeley	Cyclone	GPU Energy
15	East side of Rt. 9 at Ocean Gate Dr. near McDonald's Rest.	Berkeley	Cyclone	GPU Energy
16	East side of Bayview Ave. 3.0 miles east of US Rt. 9 1st road north at AT&T Building.	Berkeley	Cyclone	GPU Energy

Title

**PROMPT NOTIFICATION SYSTEM**

Revision No.

**2**EXHIBIT 9 (CONT'D)**PROMPT NOTIFICATION SYSTEM  
SIREN LOCATION**

SIREN NUMBER	LOCATION	MUNICIPALITY	TYPE	POWER SOURCE
17	Silver Ridge Community Building Westbrooke Dr. at Surrey Ct.	Berkeley	Banshee	GPU Energy
18	Ocean County OEM at Miller Air Park	Berkeley	Cyclone	GPU Energy
19	North side of Pinewald Keswick Rd. 2.3 miles west of Garden State Parkway	Berkeley	Cyclone	GPU Energy
20	Manitou Substation	Berkeley	Cyclone	GPU Energy
21	Ajay Appliance Rt. 37 West 0.2 miles west of Mule Road	Dover	Cyclone	GPU Energy
22	Christ Church parking lot South side Washington St. 0.5 miles east of Hooper Ave.	Dover	Cyclone	GPU Energy
23	Island Heights Substation Adams Ave. 0.1 miles east of Coolidge Ave.	Dover	Cyclone	GPU Energy
25	80th St. at Anchor 0.1 miles west of Long Beach Blvd.	Harvey Cedars Boro	Cyclone	Connective
26	Bay Blvd. at Porter 0.1 miles west of Central Ave.	Seaside	Cyclone	GPU Energy
27	Forked River Site West of Bldg. 3	Lacey	Cyclone	GPU Energy
28	Elks Lodge 2518B Beach Blvd. at Clubhouse Rd. 0.9 miles east of US Rt. 9	Lacey	Cyclone	GPU Energy
29	Capstan Dr. at Conifer Dr.	Lacey	Cyclone	GPU Energy
30	East Hickory Dr. at Plimsoll Pt.	Lacey	Banshee	GPU Energy

Title

**PROMPT NOTIFICATION SYSTEM**

Revision No.

**2**EXHIBIT 9 (CONT'D)**PROMPT NOTIFICATION SYSTEM  
SIREN LOCATION**

SIREN NUMBER	LOCATION	MUNICIPALITY	TYPE	POWER SOURCE
31	South St. at US Rt. 9	Lacey	Cyclone	GPU Energy
32	North side of Lacey Rd. at Newark Conway Auto Parking Lot	Lacey	Cyclone	GPU Energy
33	North side Lakeside Dr. South at Earle Way	Lacey	Banshee	GPU Energy
34	South side Lacey Rd. 0.2 miles west of State Rt. 618-Dover Rd.	Lacey	Cyclone	GPU Energy
35	North side Lacey Rd. 1.2 miles west of Garden State Pkwy 2.2 miles east of Carriage Way	Lacey	Cyclone	GPU Energy
37	East side of Central Blvd. at Lighthouse Way	Long Beach Island	Cyclone	Connective
38	East side of Long Beach Blvd. at Roxie Ave.	Long Beach Island	Cyclone	Connective
43	Waretown Substation East side of US Rt. 9 0.6 miles south Bryant Rd. State Rt. 532	Ocean	Cyclone	GPU Energy
44	Ocean County Vocational School South side of State Rt. 532 0.5 miles west of Garden State Pkwy	Ocean	Cyclone	GPU Energy
45	Lighthouse Dr. at Nautilus Rd. 0.8 miles east of US Rt. 9	Ocean	Banshee	GPU Energy
47	13th St. Substation 13th St. at Barnegat	Seaside Park	Cyclone	GPU Energy
48	OCSA end of Mill Creek Rd. 1.1 miles south of US Rt. 72	Stafford	Cyclone	Connective



Title

**PROMPT NOTIFICATION SYSTEM**

Revision No.

**2**EXHIBIT 9 (CONT'D)**PROMPT NOTIFICATION SYSTEM  
SIREN LOCATION**

SIREN NUMBER	LOCATION	MUNICIPALITY	TYPE	POWER SOURCE
49	OCSA Cedar Run Blvd. 0.5 miles east of US Rt. 9	Stafford	Cyclone	Connective
51	East side of US Rt. 9 2.6 miles south of Bayshore Dr. 1.1 miles north of Hilliard Blvd.	Stafford	Cyclone	Connective
53	South side US Rt. 72 Opposite SOCH 0.7 miles west of Garden State Pkwy.	Stafford	Cyclone	Connective
56	Palatine Gun Club West side St. Rt. 539 3.3 miles south of US Rt.72	Stafford	Cyclone	Connective
58	OCSA S. 2nd St. at Barnegat Ave. 0.3 miles west Long Beach Blvd.	Surf City Boro	Cyclone	Connective

Title

**PROMPT NOTIFICATION SYSTEM**

Revision No.

**2**

EXHIBIT 10

**PROMPT NOTIFICATION SYSTEM  
REPAIR RECORD**

SIREN #	MALFUNCTION DESCRIPTION/COMMENTS	DATE OF OBSERVATION	DATE OF REPAIR

Signature: \_\_\_\_\_  
Communications Technician

Received: \_\_\_\_\_  
Security OPS & Maintenance  
Supervisor Oyster Creek

**EXHIBIT 11**  
**SAMPLE**  
**PNS HISTORICAL RECORD**

OEP-ADM-1319.04  
Rev. 2

**Siren Number:** \_\_\_\_\_

**Siren Location:** \_\_\_\_\_

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[illegible]

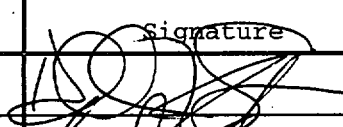
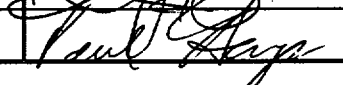
Page \_\_\_\_\_ of \_\_\_\_\_

ELI-1

**OYSTER CREEK  
EMERGENCY PLAN  
IMPLEMENTING PROCEDURE**Number  
**OEP-ADM-1319.05**

Title <b>EMERGENCY PREPAREDNESS EVENT REPORTS</b>		Revision No. <b>1</b>
Applicability/Scope Applies to work at Oyster Creek		Responsible Office Emergency Preparedness
This document is within QA plan scope Safety Reviews Required	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	Effective Date Date of Sale

Prior Revision 0 incorporated the following Temporary Changes:N/AThis Revision 1 incorporates the following Temporary Changes:N/AList of Pages (all pages rev'd to Rev. 1)1.0 to 4.0  
E1-1 to E1-2  
E2-1**NON-CONTROLLED  
This Document Will Not  
Be Kept Up To Date  
DCC Oyster Creek**

	Signature	Concurring Organization Element	Date
Originator		EMERGENCY PLANNER	1/11/00
Approved By		Emergency Preparedness Mgr, OC	1/11/00



## Number

**OEP-ADM-1319.05**

Revision No.

**1**

[illegible]

Title

**PROCEDURE TITLE**

Revision No.

**1**

1.0 PURPOSE

1.1 This document provides guidance to ensure a consistent and thorough review of declared emergencies and events at the OCNGS.

2.0 APPLICABILITY/SCOPE

2.1 This procedure applies to the Emergency Preparedness Department Personnel.

3.0 DEFINITIONS

3.1 Event - A formal emergency situation that was declared in accordance with the OCNGS Emergency Plan or an event that perhaps should have been declared as a formal emergency but was not.

4.0 PROCEDURE

4.1 The Emergency Preparedness Manager shall ensure a critique is conducted of declared emergencies and events, as requested by Plant Management, occurring at his respective site of responsibility.

4.2 An Event Report should be written and distributed approximately two weeks following close-out of the event.

4.3 An Event Report and Chronology of Events should be prepared using the format shown as Exhibit 1 and Exhibit 2. The Event Report shall include a review of EP related forms and logs documenting the event.

4.4 The Event Report should include circumstances prior to the event, causative factors, event description, extent of damage, extent of involvement of off-site (non-company) personnel, and the response of affected personnel. The report shall describe remedial action necessary to preclude recurrence or reduce the consequences of a similar event. Response of affected personnel will be judged as satisfactory or in need of improvement in relation to adherence to approved procedures and commonly accepted work practices.

4.5 Deficiencies shall be entered into the (CAP) Corrective Action Process System, per Procedure 1000-ADM-7216.01, to ensure proper and timely resolution.

4.6 The Event Report and all recoverable EP documents related to the event shall be forwarded to document control for retention.

Title	Revision No.
<b>PROCEDURE TITLE</b>	<b>1</b>

5.0 RESPONSIBILITIES

5.1 The Site Emergency Preparedness Manager has administrative control and is responsible for implementation of this procedure.

6.0 REFERENCES

- Procedure 1000-ADM-7216.01, Corrective Action Process (CAP)

7.0 EXHIBITS

- 7.1 Exhibit 1 - EPD Event Report Format
- 7.2 Exhibit 2 - Chronology of Events

Title <b>PROCEDURE TITLE</b>	Revision No. <b>1</b>
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EXHIBIT 1

EPD EVENT REPORT FORMAT

TO: Director, Radiological Health and Safety  
FROM: Emergency Preparedness Manager  
SUBJECT:

EMERGENCY DECLARATION: \_\_\_\_\_

SUMMARY: \_\_\_\_\_  
\_\_\_\_\_  
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BACKGROUND: \_\_\_\_\_  
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Title

**PROCEDURE TITLE**

Revision No.

**1**

EXHIBIT 1  
(continued)

EPD EVENT REPORT FORMAT

DISCUSSION:

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LESSONS LEARNED/  
RECOMMENDATIONS:

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\_\_\_\_\_  
EP Manager

/

\_\_\_\_\_  
Date

cc: Affected Management Personnel  
Affected Division Director(s)  
EP Staff

