

EMERGENCY PLAN PROCEDURE INDEX

PROCEDURE NUMBER	REV. NO.	TITLE	DATE SIGNED BY SUPER.	DATE OF LAST PERIODIC REVIEW
EP-101	2	Classification of Emergencies		09/27/84
EP-102	4	Unusual Event Response		07/20/84
EP-103	4	Alert Response		07/20/84
EP-104	4	Site Emergency Response		07/20/84
EP-105	4	General Emergency Response		07/20/84
EP-106	1	Written Summary Notification		06/08/84
EP-110	2	Personnel Assembly and Accountability		06/08/84
EP-120	1	Site Emergency Coordinator		06/08/84
EP-201	1	Technical Support Center (TSC) Activation		06/08/84
EP-202	2	Operations Support Center (OSC) Activation		09/25/84
EP-203	2	Emergency Operations Facility (EOF) Activation		09/27/84
EP-208	2	Security Team Activation		06/08/84
EP-210	1	Dose Assessment Team		06/08/84
EP-220		CANCELLED		
EP-221	1	Personnel Dosimetry, Bioassay, and Respiratory Protection Group		06/08/84
EP-222	2	Field Survey Group		07/17/84
EP-230	3	Chemistry Sampling and Analysis Team Activation		07/20/84
EP-231	4	Operation of Post-Accident Sampling Systems (PASS)		08/07/84
EP-232		CANCELLED		
EP-233	3	Retrieving and Changing Sample Filters and Cartridges from the Containment Leak Detector During Emergencies		07/20/84

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EP-292	3	Chemistry Sampling and Analysis Team Phone List	09/27/84	
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PROCEDURE NUMBER	REV. NO.	TITLE	DATE SIGNED BY SUPER.	DATE OF LAST PERIODIC REVIEW
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EP-330	2	Emergency Response Facility Habitability	07/20/84	
EP-401	1	Entry for Emergency Repair and Operations	06/08/84	
EP-410	1	Recovery Phase Implementation	06/08/84	
EP-500	1	Review and Revision of Emergency Plan	06/08/84	

JM Lead 9/27/84

PHILADELPHIA ELECTRIC COMPANY
LIMERICK GENERATING STATION
EMERGENCY PLAN IMPLEMENTING PROCEDURE

EP-101 CLASSIFICATION OF EMERGENCIES

1.0 PURPOSE

The purpose of this procedure is to provide guidelines for classifying an event or condition into one of four emergency classifications as described in the Emergency Plan. Additionally this procedure details the method to change from one emergency action level to another and to enter the recovery phase, if applicable.

2.0 RESPONSIBILITIES

2.1 Shift Supervision acting as Interim Emergency Director is responsible to:

2.1.1 Classify the event according to this procedure.

2.1.2 Periodically re-evaluate the event for a change in classification.

2.1.3 Implement the Emergency Plan if the situation warrants.

2.2 The Station Superintendent acting as Emergency Director has the same responsibilities as in 2.1.

3.0 APPENDICES

3.1 EP-101-1 Hazards to Station Operation

3.2 EP-101-2 Environmental

3.3 EP-101-3 Loss of Power

3.4 EP-101-4 Personnel Injury

3.5 EP-101-5 Fire

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- 3.6 EP-101-6 Radioactive Release
- 3.7 EP-101-7 Evacuation of Control Room
- 3.8 EP-101-8 Damage of Fuel
- 3.9 EP-101-9 Instrument Failure
- 3.10 EP-101-10 Scram Failure
- 3.11 EP-101-11 Boundary Degradation/LOCA
- 3.12 EP-101-12 Unusual Shutdown
- 3.13 EP-101-13 Loss of Hot or Cold Shutdown Capacity
- 3.14 EP-101-14 Security

4.0 PREREQUISITES

None

5.0 SPECIAL EQUIPMENT

None

6.0 SYMPTOMS

None

7.0 ACTION LEVEL

This procedure shall be implemented whenever Shift Supervision detects conditions which meet the Emergency Action Levels in Appendix EP-101, Classification Table.

IMPLEMENTATION OF THIS PROCEDURE DOES NOT CONSTITUTE IMPLEMENTATION OF THE EMERGENCY PLAN.

8.0 PRECAUTIONS

THE JUDGEMENT OF THE (INTERIM) EMERGENCY DIRECTOR IS VITAL IN PROPER CONTROL OF AN EMERGENCY AND TAKES PRECEDENCE OVER GUIDANCE IN THIS EMERGENCY PLAN PROCEDURE.

9.0 PROCEDURE

9.1 ACTIONS

9.1.1 Shift Supervision or Emergency Director shall:

9.1.1.1 Select categories related to station events or conditions.

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Hazards to Station Operation	6
Environmental	7
Loss of Power	8
Personnel Injury	9
Fire	10
Radioactive Release	11
Evacuation of Control Room	12
Damage of Fuel	13
Instrument Failure	14
Scram Failure	15
Boundary Degradation/LOCA	16
Unusual Shutdown	18
Loss of Hot or Cold Shutdown Capacity	19
Security	20

9.1.1.2 Beginning at the indicated page in Appendix EP-101, review the Emergency Action Levels for categories selected.

- 9.1.1.3 If the most severe events or conditions are classified as an Unusual Event, implement EP-102, "Unusual Event Response."
- 9.1.1.4 If the most severe events or conditions are classified as an Alert, implement EP-103, "Alert Immediate Response."
- 9.1.1.5 If the most severe events or conditions are classified as a Site Emergency, implement EP-104, "Site Emergency Response."
- 9.1.1.6 If the most severe events or conditions are classified as a General Emergency, implement EP-105, "General Emergency Response."

9.2 ACTIONS

- 9.2.1 If event is classified as Alert, Site Emergency, or General Emergency, Shift Supervision or Emergency Director shall:
 - 9.2.1.1 Periodically evaluate the event classification as listed on attached Appendix EP-101. Based upon results of corrective action taken to recover from the emergency situation, escalation or de-escalation of the emergency classification will be decided upon by the (Interim) Emergency Director. (It is preferable, but not mandatory, to obtain concurrence from the Site Emergency Coordinator and Corporate Headquarters prior to classification reduction). The NRC and appropriate off-site authorities shall be informed of the decision to move from one emergency class to the next. As appropriate, agencies or personnel listed in checkoff lists of EPs 102, 103, 104, and 105 shall be informed.

Notified within 15 minutes once the emergency level is declared.
 - 9.2.1.2 Have a written summary sent to the NRC within eight hours of closeout or reductin of the emergency clasification in accordance with EP-106, Written Summary Notification.

9.2.2 When the emergency has been controlled and the power plant and auxiliaries have been placed in a safe shutdown condition, only then will a decision be made as to whether a recovery phase is justified. To enter the recovery phase after the emergency or accident situation is considered no longer in effect, the concurrence of the Site Emergency Coordinator, Emergency Director, the Emergency Support Officer at Corporate Headquarters, and Federal and State Government Liaison is required per EP-410. The recovery phase is a departure from an emergency situation. The Site Emergency Coordinator and Emergency Director evaluate plant operating conditions as well as the in-plant and out-of-plant radiological conditions in this decision. Notifications to the various individuals and agencies that the recovery phase has been implemented is the responsibility of the Site Emergency Coordinator.

10.0 REFERENCES

- 10.1 Limerick Generating Station Emergency Plan
- 10.2 NUREG 0654 Criteria for Preparation and Evaluation
Rev. 1 of Radiological Emergency Response
Plans and Preparedness in Support
of Nuclear Power Plants
- 10.3 EP-102 Unusual Event Response
- 10.4 EP-103 Alert Response
- 10.5 EP-104 Site Emergency Response
- 10.6 EP-105 General Emergency Response
- 10.7 EP-410 Recovery Phase Implementation

HAZARDS TO STATION OPERATION

UNUSUAL EVENT

ALERT

WHEN BOTH UNITS ARE IN COLD SHUTDOWN

- | | |
|---|--|
| <ol style="list-style-type: none">1. Aircraft crash in or unusual aircraft activity over the site.2. Train derailment within the site boundary.3. Explosion within or near the site boundary.4. Toxic or flammable gas release within or near the site boundary. | <ol style="list-style-type: none">1. Aircraft crash or missile impact on the Reactor Enclosure, Control Enclosure, Turbine Enclosure, Diesel Generator Enclosure or Spray Pond Pump House.2. Known explosion damage affecting plant operation.3. Toxic, flammable gases or chlorine detected in the Control Room as indicated by 'High Toxic Chemical Concentration' Alarm or 'Control Room Chlorine Isolation Initiated' Alarm on 00C881. |
|---|--|

SITE EMERGENCY

GENERAL EMERGENCY

WHEN EITHER UNIT IS NOT IN COLD SHUTDOWN

1. Aircraft crash or missile impact on the Reactor Enclosure, Control Enclosure, Turbine Enclosure, Diesel Generator Enclosure or Spray Pond Pump House.
2. Known explosion damage affecting plant operation.
3. Toxic, flammable gases or chlorine detected in the Control Room as indicated by 'High Toxic Chemical Concentration' Alarm or 'Control Room Chlorine Isolation Initiated' Alarm on 00C881.

ENVIRONMENTAL

UNUSUAL EVENT

ALERT

- | | |
|---|--|
| <ol style="list-style-type: none">1. An actual earthquake detected by the Seismic Monitoring System (00C693) at or below operating basis earthquake (.075g).2. A tornado is observed within or near site boundary.3. A hurricane is expected to be in the vicinity of the site. | <ol style="list-style-type: none">1. An actual earthquake detected by the Seismic Monitoring System (00C693) beyond the operating basis earthquake (.075g).2. Tornado strikes the Reactor Enclosure, Turbine Enclosure, Spray Pond Pump House, Control Enclosure or Diesel Generator Enclosure.3. Sustained high winds greater than 70 mph as indicated on OBC699. |
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SITE EMERGENCY

GENERAL EMERGENCY

- | | |
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| <ol style="list-style-type: none">1. Sustained high winds greater than 90 mph as indicated on OBC699 if either unit is not in Cold Shutdown.2. An actual earthquake detected by the Seismic Monitoring System (00C693) beyond the safe shutdown earthquake (.15g) if either unit is not in Cold Shutdown. | <ol style="list-style-type: none">1. Earthquake beyond the safe shutdown earthquake (.15g) or other natural disaster which causes massive damage leading to other General Emergencies. |
|--|--|

LOSS OF POWER

UNUSUAL EVENT	ALERT
1. Loss of all off-site power or loss of all on-site AC power for greater than 60 seconds.	N/A

SITE EMERGENCY	GENERAL EMERGENCY
1. Loss of all on-site AC power and loss of off-site power	N/A
2. Loss of all safety-related DC power as indicated by: a) Loss of all Control Room annunciators.	

PERSONNEL INJURY

UNUSUAL EVENT	ALERT
1. Transportation of contaminated injured individual from site to off-site hospital.	N/A

SITE EMERGENCY	GENERAL EMERGENCY
N/A	N/A

FIRE

UNUSUAL EVENT

ALERT

-
- | | |
|--|---|
| <p>1. Fires involving permanent plant structures within the protected area lasting 10 minutes or more after initial attempts to extinguish it.</p> | <p>1. Fire which could make an ECCS inop as indicated by observation.</p> |
|--|---|

SITE EMERGENCY

GENERAL EMERGENCY

-
- | | |
|--|--|
| <p>1. Fire which makes an ECCS inop and requires or causes immediate plant shutdown as indicated by observation.</p> | <p>1. Fire which causes massive damage leading to other General Emergencies.</p> |
|--|--|

UNUSUAL EVENT

1. Report indicates liquid effluent release exceeds technical specification 3.11.1.1 or 3.11.1.2.
2. Report indicates gaseous effluent release exceeds technical specification 3.11.2.1 or 3.11.2.2 or 3.11.2.3

ALERT

1. Radiological effluents release greater than 0.5 mR/hr at site boundary as indicated by an uncontrollable release for greater than 20 minutes with:
 - a) North stack effluent radiation monitor exceeds 1.0N2 uCi/cc or
 - b) South stack effluent radiation monitor exceeds 1.2N2 uCi/cc.

SITE EMERGENCY

1. Radiological effluent release greater than 50 mR/hr at site boundary as indicated by an uncontrollable release for greater than 20 minutes with:
 - a) North stack effluent radiation monitor exceeds 1.0 uCi/cc.
2. Projected whole body dose greater than .1 rem or thyroid dose greater than .5 Rem at or beyond the site boundary over course of the event utilizing RMMS procedure calculating offsite doses.

GENERAL EMERGENCY

1. Radiological effluent release greater than 500 mR/hr at site boundary as indicated by an uncontrollable release for greater than 20 minutes with:
 - a) North stack effluent radiation monitor exceeds 10 uCi/cc.
2. Projected whole body dose greater than 1 Rem or thyroid dose greater than 5 Rem at or beyond the site boundary over course of the event utilizing RMMS procedure calculating offsite doses.

EVACUATION OF CONTROL ROOM

UNUSUAL EVENT

ALERT

N/A

1. Evacuation of Control Room anticipated or required with control established at remote shutdown panel.

SITE EMERGENCY

GENERAL EMERGENCY

1. Evacuation of Control Room and control of shutdown systems not established from remote shutdown panel in 15 minutes.

N/A

DAMAGE OF FUEL

UNUSUAL EVENT	ALERT
1. Steam Jet Air Ejector Discharge radiation monitor exceeds 2.1P4 mR/hr.	1. Steam Jet Air Ejector Discharge radiation monitor exceeds 2.1P5 mR/hr
2. Steam Jet Air Ejector Discharge radiation monitor has an unexpected increase of 4000 mR/hr over 30 minutes.	2. I-131 dose equivalent in the reactor coolant exceeds 300 uCi/g from sample and main steam line high-high radiation with resultant scram.
3. I-131 dose equivalent in the reactor coolant exceeds 0.2 uCi/g from sample analysis.	3. Spent fuel damage resulting in a refueling floor area ventilation exhaust monitor alarm.
	4. Containment Post LOCA Radiation Monitors greater than 1P2 R/hr.

SITE EMERGENCY	GENERAL EMERGENCY
1. Major damage to spent fuel: a) Observation of major damage to spent fuel <u>or</u> b) Water loss below fuel level in spent fuel pool.	1. Containment Post LOCA Radiation Monitors greater than 1P4 R/hr.
2. Containment Post LOCA Radiation Monitors greater than 1P3 R/hr.	

INSTRUMENT FAILURE

UNUSUAL EVENT	ALERT
1. Complete loss of all Main Control Room communication equipment.	N/A
2. Significant loss of assessment capability in the Main Control Room as indicated by:	
a) Loss of all flow or all radiation monitors for the North, South stacks or radwaste discharge while a release is in progress.	

SITE EMERGENCY	GENERAL EMERGENCY
N/A	N/A

SCRAM FAILURE

UNUSUAL EVENT

ALERT

N/A

1. Failure of the Reactor protection system to automatically initiate and complete a scram and

Scram fails to bring Reactor subcritical as indicated by APRM's greater than 4%, one minute after scram initiates.

SITE EMERGENCY

GENERAL EMERGENCY

1. Transient requiring standby liquid control system to initiate with failure to scram. Failure to Scram is indicated by APRM'S greater than 4% one minute after a scram initiates.

1. Transient requiring standby liquid control system to initiate with failure to scram and Reactor does not become sub-critical. As indicated by APRM's greater than 4% 10 minutes after scram initiates.

BOUNDARY DEGRADATION/LOCA
PAGE 1 of 2

UNUSUAL EVENT	ALERT
1. Failure of a main steam relief valve or ADS valve to close following reduction of applicable pressure.	1. Scram with small leak as indicated by:
As indicated by:	a) Scram alarm <u>and</u>
a) SRV 1 head vent valve leaking alarm on 10C826 (20C826) <u>or</u>	b) Reactor level less than -129" <u>and</u>
b) Acoustic monitor valve position indication <u>and</u> (safety relief valve open alarm on 10C826 (20C826)	c) Containment pressure greater than 1.68 psig and pressure is increasing.
c) Increase in suppression pool temperature above 95 <u>and</u>	2. Reactor coolant leak rate exceeds 60 gpm total leakage averaged over any 24 hour period as indicate by surveillance test report.
d) Reactor pressure below 1130 psig	3. High airborne contamination in the Reactor Enclosure as indicated by:
2. Reactor coolant leak rate exceeds 30 gpm total leakage average over any hour period as indicated by surveillance test report.	a) Reactor Enclosure vent exhaust RAD monitor A/B or C/D Hi-Hi ALARM on 10C800 (20C800) <u>or</u>
	b) 1000 fold increase of airborne radiation in a major area of the reactor enclosure as determined by health physics.

BOUNDARY DEGRADATION/LOCA
PAGE 2 of 2

SITE EMERGENCY

GENERAL EMERGENCY

- | | |
|---|--|
| <p>1. Scram with LOCA as indicated by:</p> <ul style="list-style-type: none">a) Scram alarm <u>and</u>b) Reactor level less than -129" <u>and</u>c) Containment pressure greater than 10 psig <p>2. Main steam line break outside containment without isolation as indicated by:</p> <ul style="list-style-type: none">a) High Main Steam Line Flow (108.7 psid) <u>and</u>b) High Steam Tunnel Temp (165 deg F) <u>and</u>c) Main Steam Line Low Pressure (756 psig) | <p>1. Scram with LOCA & no ECCS as indicated by:</p> <ul style="list-style-type: none">a) Scram alarm <u>and</u>b) Reactor level less than -129" <u>and</u>c) Failure to bring Reactor level above -129" after 3 minutes <u>and</u>d) Containment pressure greater than 20 psig <p>2. Scram with LOCA & Containment Failure as indicated by:</p> <ul style="list-style-type: none">a) Scram with Reactor level less than -129" <u>and</u>b) Reactor Enclosure Vent Exhaust Rad Monitor A/B or C/D Hi-Hi alarm on 10C800 (20C800) |
|---|--|

UNUSUAL SHUTDOWN

UNUSUAL EVENT	ALERT
1. Controlled shutdown due to failure to meet limiting condition of operation.	N/A
2. Shutdown other than normal controlled shutdown <u>and</u> for the purpose of placing the plant in a safer condition.	
3. Cooldown rate exceeds technical specification limits.	

SITE EMERGENCY	GENERAL EMERGENCY
N/A	N/A

LOSS OF HOT OR COLD SHUTDOWN CAPABILITY

UNUSUAL EVENT	ALERT
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N/A

1. Complete loss of any function needed for plant Cold Shutdown and main condenser unavailable as indicated by:
 - a) Loss of RHRSW or
 - b) Loss of shutdown cooling.

SITE EMERGENCY	GENERAL EMERGENCY
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1. Complete loss of any function needed to maintain the plant in Hot Shutdown if Hot Shutdown condition is required as indicated by:
 - a) HPCI and RCIC not available or
 - b) All Reactor vessel relief valves inoperable or
 - c) Loss of Suppression Pool cooling.
- 1) Shutdown occurs but Decay Heat Removal Systems not available as indicated by:
 - a) Reactor operating and scram occurs and
 - b) RHR shutdown cooling not available and
 - c) All SRV's INOP and
 - d) HPCI and RCIC not available

SECURITY

UNUSUAL EVENT

ALERT

1. Security threat or attempted entry or attempted sabotage.

1. Ongoing security compromise

- Event 1 - Sabotage or Bomb Threat
- Event 2 - Intrusion and Attach Threat
- Event 7 - Suspected Intrusion
- Event 8 - Actual Intrusion
- Event 9 - Suspected Bomb or Sabotage Device Discovered
- Event 15 - Guard Strike
- Event 16 - Onsite Hostage Situation

SITE EMERGENCY

GENERAL EMERGENCY

1. Imminent loss of physical control of the plant. Escalation of Event 8 - Actual Intrusion or Event 9 - Suspected Bomb or Sabotage Device Discovered depending on location and size of device and radiological consequences.

1. Loss of physical control of the facility. Escalation of Event 8 - Actual Instrusion or Event 9 - Suspected Bomb or Sabotage Device Discovered depending on location and size of device and radiological consequences.

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PHILADELPHIA ELECTRIC COMPANY
LIMERICK GENERATING STATION
EMERGENCY PLAN IMPLEMENTING PROCEDURE

EP-202 OPERATIONS SUPPORT CENTER (OSC) ACTIVATION

1.0 PURPOSE

The purpose of this procedure is to provide guidelines for the actions required by the Operations Support Center Coordinator to activate, man and manage the Operations Support Center (OSC).

2.0 RESPONSIBILITIES

2.1 The Operations Support Center Coordinator shall activate the OSC by performing the necessary steps in this procedure.

3.0 APPENDICES

- 3.1 Appendix EP-202-1 OSC - Operator Assignment Status Board
- 3.2 Appendix EP-202-2 OSC - HP Assignment Status Board
- 3.3 Appendix EP-202-3 OSC - Plant Status Board
- 3.4 Appendix EP-202-4 OSC - Telephone Check List

4.0 PREREQUISITES

None

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5.0 SPECIAL EQUIPMENT

5.1 Portable Area Radiation Monitor

6.0 SYMPTOMS

None

7.0 ACTION LEVEL

7.1 The Operations Support Center is activated when an event has been classified as an Alert, Site or General Emergency in accordance with EP-101, Classification of Emergencies, or at the discretion of the Emergency Director.

8.0 PRECAUTIONS

8.1 Verify habitability of Operations Support Center in accordance with EP-330, Emergency Response Facility Habitability.

8.2 Personnel shall log in and out of the Operations Support Centers in order to maintain personnel accountability.

9.0 PROCEDURE

9.1 ACTIONS

9.1.1 Operations Support Center Coordinator shall:

9.1.1.1 Assign an individual the duties of Operations Support Center Communicator and Status Board Keeper. Use Appendices EP-202-1, EP-202-2, EP-202-3 for status board formats.

9.1.1.2 Direct the establishment and maintenance of a log of pertinent events. The log keeper can be any available maintenance person or technician.

- 9.1.1.3 Direct the Operations Support Center communicator to verify operability of the telephones between the OSC and the TSC and Control Room (in accordance with Appendix EP-202-4, OSC Telephone Check List) and maintain the status board.
- 9.1.1.4 Notify the (Interim) Emergency Director when the Operations Support Center is manned and communications are satisfactory between the Control Room, Technical Support Center and the Operations Support Center.
- 9.1.1.5 Have Health Physics check out equipment.
- 9.1.1.6 Have Health Physics set up a portable area radiation monitor (if available) or use a survey meter to monitor radiation levels.

9.2 FOLLOW-UP

- 9.2.1 Operations Support Center Coordinator shall:
 - 9.2.1.1 Remain available for contact with the Control Room or TSC in order to provide personnel for emergency teams.
 - 9.2.1.2 Direct personnel entering or leaving the Operations Support Center to log in or out using the Operations Support Center log.
 - 9.2.1.3 Contact the Emergency Director for additional manpower, if needed.
 - 9.2.1.4 If the OSC becomes overcrowded, assign excess personnel to report to the Auxiliary OSC on Elevator 239 (P.O. Shack) and have phones there checked.
 - 9.2.1.5 Upon leaving the Operations Support Center for any reason, delegate the duties to the senior remaining operator or HP technician.
 - 9.2.1.6 Assign Health Physics to periodically confirm habitability using EP-330, Emergency Response Facility Habitability.
 - 9.2.1.7 In the event the OSC becomes uninhabitable, direct personnel as follows:
 - A. The OSC-Coordinator, Plant Survey Group Leader and up to 5 HP Technicians and 5

Operators report to the MRF Room in the Control Room.

B. All others report to the Maintenance Shop.

10.0 REFERENCES

- 10.1 Limerick Generating Station Emergency Plan
- 10.2 NUREG 0654, Rev. 1 - Criteria for Preparation and Evaluation of Radiological Emergency Response Plans and Preparedness in Support of Nuclear Power Plants.
- 10.3 NUREG 0696 - Functional Criteria for Emergency Response Facilities.
- 10.4 EP-330 - Emergency Response Facilities Habitability

APPENDIX EP-202-3
OSC PLANT STATUS BOARD

UNIT _____
 RX LEVEL _____ TIME _____ EMERGENCY CLASS: _____

13 KV Bus	1:	2:	HPCI:	
Condensate Pumps	A:	B:	C:	RCIC:
Recirc Pumps	A:	B:		
4 KV Bus	D 1:	D 2:	D 3:	D 4:
Diesel	D 1:	D 2:	D 3:	D 4:
RHR	A:	B:	C:	D:
RHRSW	A:	B:	C:	D:
Core Spray	A:	B:	C:	D:
ESW	A:	B:	C:	D:
CRD	A:			B:
SBLC	Pumps	A:	B:	C:
	Valves	A:	B:	C:
SBGT Fans	A:	B:	SBGT Filter A SBGT Filter B	
Containment H2 Recomb.	A:	B:		
Air Compressors:	A:	B:	Service Air:	
Backup Service Air:				


APPENDIX EP-202-4


OSC - EMERGENCY EQUIPMENT INVENTORY LIST

Check the following phones for dial tone:

OSC Prelude Phones:

YES/NO

 Control Room/OSC (Beige Phone)

 OSC/TSC (Light Blue Phone)

OSC Station Phones (Black):

YES/NO







| AUXOSC Phones - if AUXOSC is used

YES/NO

| 

| 

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PHILADELPHIA ELECTRIC COMPANY
LIMERICK GENERATING STATION
EMERGENCY PLAN IMPLEMENTING PROCEDURE

EM Lead 9/27/84

EP-203 EMERGENCY OPERATIONS FACILITY (EOF) ACTIVATION

1.0 PURPOSE

The purpose of this procedure is to provide guidelines for the activation, manning, and conduct of operations of the Emergency Operations Facility (EOF).

2.0 RESPONSIBILITIES

- 2.1 The first person arriving at the EOF shall activate the EOF by performing the necessary steps in this procedure.
- 2.2 The Site Emergency Coordinator's Communicator shall man communication lines and log information.
- 2.3 The Site Emergency Coordinator shall direct operation at the EOF.
- 2.4 The Status Board Recorders shall obtain and post information.

3.0 APPENDICES

- 3.1 EP-203-1 LGS Plant Parameter Status Board
- 3.2 EP-203-2 Plant Parameter Trends Board
- 3.3 EP-203-3 Event Chronology Status Board
- 3.4 EP-203-4 Staff Assignment Status Board
- 3.5 EP-203-5 Headquarters Support Requests Status Board
- 3.6 EP-203-6 Offsite Communications Status Board
- 3.7 EP-203-7 Radiological Status Board

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- 3.8 EP-203-8 EOF Phone Check List
- 3.9 EP-203-9 EOF Equipment Activation

4.0 PREREQUISITES

None

5.0 SPECIAL EQUIPMENT

None

6.0 SYMPTOMS

None

7.0 ACTION LEVEL

- 7.1 The EOF is activated when an event has been classified as a Site Emergency or General Emergency in accordance with EP-101, Classification of Emergencies, or at the discretion of the Site Emergency Coordinator or (Interim)! Emergency Director.

8.0 PRECAUTIONS

- 8.1 Maintain accountability of personnel and staff reporting to the EOF throughout the incident.

9.0 PROCEDURE

9.1 ACTIONS

PERSONNEL ARE DESIGNATED AND ASSIGNED GENERAL DUTIES IN THE EOF BY EP-279, EOF GROUP PHONE LIST.

- 9.1.1_ The first person arriving shall:

- 9.1.1.1 Obtain keys, if necessary, for EOF from the Plymouth Dispatch office and open EOF.
- 9.1.1.2 Perform appendices EP-208-8 and EP-208-9.
- 9.1.1.3 Assign the first available person to the entrance of the EOF to control access until security arrives and to establish a log for the purposes of personnel accountability.

ENSURE THAT PERSONNEL SIGN IN AND OUT AND THAT ONLY INDIVIDUALS ON ACCESS LIST OR CLEARED BY SENIOR PERSON PRESENT ARE ALLOWED TO ENTER THE EOF. ACCESS LIST IS IN SECURITY DESK.

- 9.1.1.4 Assign an individual (as soon as one is available), the duties of the Site Emergency Coordinator Communicator. The communicator shall perform the steps outlined in Section 9.1.2.

9.1.2 The Site Emergency Coordinator Communicator shall:

- 9.1.2.1 Use EP-279, Emergency Operations Facility Group Phone List to call in additional personnel to staff the EOF, if necessary.
- 9.1.2.2 Inform the Site Emergency Coordinator when the above communications capabilities have been verified or of any problems.
- 9.1.2.3 As personnel arrive, man communications lines on the Site Emergency Coordinator's desk and maintain a communications log containing information received from and sent to other facilities and other organizations.

ENSURE ALL PERTINENT ACTIONS AND NOTIFICATIONS ARE LOGGED.

- 9.1.3 Security personnel shall:
 - 9.1.3.1 Post themselves at front and back of EOF.
 - 9.1.3.2 Control access to EOF by allowing only people who are on access list or cleared by senior person in EOF access to EOF. Access list is in Security Desk.

9.2 FOLLOW-UP

SITE EMERGENCY COORDINATOR SHALL ASSUME CONTROL AFTER HE HAS ARRIVED AND IS COGNIZANT OF THE SITUATION.

9.2.1 Site Emergency Coordinator shall:

9.2.1.1 Assign personnel to be status board keepers and direct them to perform the steps outlined in section 9.2.4 of this procedure.

- A. LGS Plant Parameter Status Board
- B. Plant Parameter Trends Board
- C. Event Chronology Status Board
- D. Staff Assignment Status Board
- E. Headquarters Support Requests Status Board
- F. Offsite Communications Status Board
- G. Radiological Status Board

9.2.1.2 Ensure that an individual has been assigned as the Site Emergency Coordinator's Communicator.

9.2.1.3 Inform the Technical Support Center when the Emergency Operations Facility is operational, manned and in control of its designated responsibilities.

9.2.1.4 Brief the EOF Staff periodically on the status of the emergency and pertinent plant conditions.

9.2.1.5 Direct transmission of all Status Board information to appropriate Headquarters Emergency Support Center Status Board Recorders.

9.2.1.6 Perform actions in EP-120 Site Emergency Coordinator.

9.2.3 Dose Assessment Team Leader shall:

9.2.3.1 Complete the Dose Assessment Team Activation in accordance with EP-210, Dose Assessment Team Activation.

9.2.4 Status Board Recorders shall:

9.2.4.1 Fill in their assigned status board(s).

Format and content of the Status Boards are given in the following appendices:

- A. Appendix EP-203-1, LGS Plant Parameter Status Board
- B. Appendix EP-203-2, Plant Parameter Trends Status Board
- C. Appendix EP-203-3, Event Chronology Status Board
- D. Appendix EP-203-4, Staff Assignment Status Board
- E. Appendix EP-203-5, Headquarters Support Requests Status Board
- F. Appendix EP-203-6, Offsite Communications Status Board
- G. Appendix EP-203-7, Radiological Data Status Board

9.2.4.2 Contact the following individuals for the various Status information.

- A. TSC Plant Parameter Status Board Recorder for Plant Status information.
- B. TSC Event Chronology Status Board Recorder for Event Chronology information.
- C. Site Emergency Coordinator's Communicator for Staff Assignment Information and Headquarters Support Requests.
- D. Emergency Director's Communicator Site Emergency Coordinator's Communicator or Control Room Communicator for offsite communication information.

- E. Field Survey Group Leader for field survey data.
- F. Dose Assessment Team Leader for Radiological data.
- 9.2.4.3 Post appropriate information on assigned status board and maintain a log of all status board entries.
- 9.2.4.4 Review and update the status boards as changes in plant conditions or information warrant.
- 9.2.4.5 Inform the appropriate Coordinator, Team or Group Leader as significant changes in status board information are noted.

10.0 REFERENCES

- 10.1 Limerick Generating Station Emergency Plan
- 10.2 NUREG 0654 - Criteria for Preparation and Rev. 1 Evaluation of Radiological Emergency Response Plans and Preparedness in Support of Nuclear Power Plants.
- 10.3 NUREG 0696 - Functional Criteria for Emergency Response Facilities.
- 10.4 EP-279 - Emergency Operations Facility Group Phone List
- 10.5 EP-210 - Dose Assessment Team Activation

APPENDIX EP-203-1
LGS PLANT PARAMETER STATUS - UNIT NO.

DATE: _____

Radiological Parameters Time
 North Stack _____ uCi/cc _____ uCi/sec
 North Stack Flow _____ cfm
 South Stack _____ uCi/cc _____ uCi/sec
 South Stack Flow _____ cfm
 D/W Rad Monitor _____ R/hr
 R/X Encl Exh _____ mr/hr
 Refuel Floor Exh. _____ mr/hr
 Air Ejector Offgas _____ mr/hr
 R/W Monitor _____ cpm

Reactor Parameters Time
 Power _____ %
 Level _____ inches
 Pressure _____ psig

Reactivity Control Time
 # Of Rods not inserted _____

Level Control Time _____

Meteorological Parameters Time

Ave. Wind Direction _____ (from)
 Ave. Ambient Temp. _____ degrees F
 Precipitation _____
 Stability Class _____
 Wind Speed () _____ (Tower 1)
 Wind Speed () _____ (Tower 2)
 Wind Speed () _____ (Satellite)

SBLC Inj. Unavail/Reason
 A _____
 B _____
 C _____

SBLC Tank Level _____

Pressure Control Time _____

#Bypass Valves Open _____

F.W.A. on Unavail/Reason

B _____
 C _____
 CRD A _____
 B _____

HPCI _____
 RCIC _____
 Cond. A _____

B _____
 C _____

C.S.A

B _____
 C _____
 D _____

LPCI A

B _____
 C _____
 D _____

RHRSW A

B _____
 C _____
 D _____

Cond.

Trans.

Refuel

Trans.

SBLC

<u>POWER SUPPLIES Time</u>		
Source	Supplying	Unavail/Reason
220 kv		
1 offsite		
500 kv		
2 offsite		
D-1		
D-2		
D-3		
D-4		

SRV's A B C D E F G H J K L M N S
 Open _____
 Closed _____
 Was Open _____

Bus	Offsite	Diesel#	Unavail
D1 1			
D1 2			
D1 3			
D1 4			

APPENDIX EP-203-1
 LGS PLANT PARAMETER STATUS - UNIT NO. (CONT'D)

DATE: _____

Containment Parameters
 Drywell pressure _____ psig
 Drywell Temp _____ f
 Suppression Pool Temp _____ f
 Suppression Pool Level _____ ft
 Containment _____ %H2

Containment Control Time _____
 Sup. Sup. Pool Pool D/W S/D Unavail/
 RHR Cool Spray Spray Cool Reason
 A _____
 B _____
 C _____
 D _____

RHRSW On Unavail/Reason
 A _____
 B _____
 C _____
 D _____

Isolations Isolated/Exceptions
 I MSIV _____
 II RHR _____
 III RWCU _____
 VII Containment _____
 VII MISC _____

SGTS On Unavail/Reason
 Train A _____
 B _____
 Fan A _____
 B _____

Containment H2 Recombiners
 On Unavail/Reason
 A _____
 B _____

APPENDIX EP-203-4
STAFF ASSIGNMENT STATUS BOARD

Date:

TITLE	NAME	LOCATION
SHIFT SUPERINTENDENT		
SHIFT SUPERVISOR		
EMERGENCY DIRECTOR		
PERSONNEL SAFETY TEAM LEADER		
FIRE/DAMAGE TEAM LEADER		
SITE EMERG. COORD.		
HEALTH PHYSICS/CHEM. COORD.		
DOSE ASSESSMENT TEAM LEADER		
CHEMISTRY SAMPLING & ANALYSIS TEAM LDR.		
FIELD SURVEY GROUP LEADER		
EOF LIAISON - CORP. COMM.		
PROCEDURE SUPPORT COORDINATOR		
PLANNING AND SCHEDULING COORDINATOR		
MECH. ENGR. LIAISON		
ELEC. ENGR. LIAISON		
EMERGENCY SUPPORT OFFICER		
EOF SECURITY		
EMERGENCY PREPAREDNESS COORDINATOR		

RADIOLOGICAL STATUS BOARD

DATE _____ TIME _____ AM _____ PM

RELEASE _____ OCCURRING _____ ANTICIPATED WHEN _____ Am _____ Pm
 LOCATION OF RELEASE: _____ NORTH STACK _____ U1 SOUTH STACK _____ OTHER
 _____ U2 SOUTH STACK
 ESTIMATED DURATION ON RELEASE _____ HRS.

COMMENTS

RELEASE MONITORED _____ YES _____ NO

	NORTH VENT	U1 SOUTH VENT	U2 SOUTH VENT	DESCRIBE
NOBLE GAS	_____ UCI/CC _____ UCI/SEC	_____ UCI/CC	_____ UCI/CC	
IODINE	_____ UCI/CC	_____ UCI/CC	_____ UCI/CC	
FLOW RATE	_____ CFM	_____ CFM	_____ CFM	

WIND SPEED _____ MPH DIRECTION (FROM) _____

STABILITY CLASS _____

CENTERLINE DOSE PROJECTION	PLUME ARRIVAL TIME	DOSE RATE		ESTIMATED INTERGRATED DOSE (BASE RELEASE DURATION)		TIME TO REACH PAG		AFFECTED SECTORS
		W.B.	THY	W.B.	THY.	W.B.	THY.	

RECOMMENDED PROTECTIVE ACTION RECOMMENDATIONS:

APPENDIX EP-203-8 (CONT'D)
EOF. PHONE CHECKOFF LIST

[REDACTED]	NRC Desk	----
[REDACTED]	NRC Table	----
[REDACTED]	NRC Table	----
[REDACTED]	NRC Table	----
[REDACTED]	SEC Communicator's Desk	----
[REDACTED] CR & TSC/EOF (Orange)	SEC Communicator's Desk	----
[REDACTED] Corp. Spokesman (Ash)	SEC Communicator's Desk	----
[REDACTED] Management (Grey)	Sec's Desk	----
[REDACTED] TSC/EOF (Ivory-Spk)	Sec's Desk	----
[REDACTED]	Emergency Preparedness	----
[REDACTED]	EOF Corp. Comm. Liaison	----
[REDACTED]	EOF Corp. Comm. Liaison	----
[REDACTED]	Security	----
[REDACTED]	Security	----
[REDACTED]	EOF Engineering Liaison	----
[REDACTED]	EOF Engineering Liaison	----
[REDACTED]	Procedures Support	----
[REDACTED]	Planning & Scheduling Coord.	----
[REDACTED]	Planning & Scheduling Coord.	----
[REDACTED]	End Tables	----
[REDACTED]	Sec. Office	----
[REDACTED] TSC/EOF (Ivory-Spk)	Sec. Office	----
[REDACTED] CR & TSC/EOF (Orange)	Sec. Office	----
[REDACTED] Management (Grey)	Sec. Office	----

APPENDIX EP-203-8 (CONT'D)
EOF. PHONE CHECKOFF LIST

[REDACTED] (Brown-Spk)	Sec. Office	----
[REDACTED]	NRC Office	----
[REDACTED]	NRC Office	----
[REDACTED]	NRC Office	----
[REDACTED]	NRC Office	----
[REDACTED]	NRC Office	----
[REDACTED]	Conference Room	----
[REDACTED]	State/Local Government Office	----
[REDACTED]	State/Local Government Office	----
[REDACTED]	State/Local Government Office	----
[REDACTED] BRP Rad (Green		----
[REDACTED]	Reception Desk (Near Plant Status Printer)	----
[REDACTED]	Telecopier	----
[REDACTED]	Telecopier	----

APPENDIX EP-203-9
EOF EQUIPMENT ACTIVATION

1. Turn on Lights in EOF using switch(es) to the left of the door.
2. Turn on CRT's using posted procedures.
3. Check radio base station for operability.
4. Inform Site Emergency Coordinator or Site Emergency Coordinator Communicator when activation is complete, and of any problems discovered.

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VAW/MPG/rgs

JM Lital 9/27/84

PHILADELPHIA ELECTRIC COMPANY
LIMERICK GENERATING STATION
EMERGENCY PLAN IMPLEMENTING PROCEDURE

EP-280 TECHNICAL SUPPORT CENTER PHONE LIST

1.0 PURPOSE

The purpose of this procedure is to provide guidelines and information to call in Technical Support Center (TSC) personnel.

2.0 RESPONSIBILITIES

2.1 The Emergency Director shall be responsible to have group members notified.

2.2 The Communicator shall call in TSC personnel.

3.0 APPENDICES

None

4.0 PREREQUISITES

None

5.0 SPECIAL EQUIPMENT

None

6.0 SYMPTOMS

None

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7.0 ACTION LEVEL

7.1 The procedure may be used when:

7.1.1 The Technical Support Center is to be activated.

7.1.2 Additional Technical Support Group people must be called in.

8.0 PRECAUTIONS

None

9.0 PROCEDURE

9.1 ACTIONS

9.1.1 The Communicator shall call people from the following list until appropriate positions are filled.

9.1.2 EMERGENCY DIRECTOR (ONE)

	<u>Home</u>	<u>Work</u>
Station Superintendent ████████████████████	████████████████	████████████
Assistant Station Superintendent ████████████████	████████████	██████████

9.1.3 TECHNICAL SUPPORT GROUP PERSONNEL (FOUR)

	<u>Home</u>	<u>Work</u>
Technical Engineer ████████████████	████████████████	██████████
Performance Engineer ████████████████	████████████	██████████
- ██████████████████	████████████	██████████
I & C Engineer ████████████████	████████████	██████████

	<u>Home</u>	<u>Work</u>
Reactor Engineer	[REDACTED]	[REDACTED]
[REDACTED]	[REDACTED]	[REDACTED]
[REDACTED]	[REDACTED]	[REDACTED]
[REDACTED]	[REDACTED]	[REDACTED]
[REDACTED]	[REDACTED]	[REDACTED]
[REDACTED]	[REDACTED]	[REDACTED]
[REDACTED]	[REDACTED]	[REDACTED]
[REDACTED]	[REDACTED]	[REDACTED]
[REDACTED]	[REDACTED]	[REDACTED]
[REDACTED]	[REDACTED]	[REDACTED]

9.1.4 PERSONNEL SAFETY TEAM LEADER (ONE)

	<u>Home</u>	<u>Work</u>
Sr. Health Physicist	[REDACTED]	[REDACTED]
[REDACTED]		
Applied Health Physicist	[REDACTED]	[REDACTED]
[REDACTED]		

9.1.5 FIRE and DAMAGE TEAM LEADER (ONE)

	<u>Home</u>	<u>Work</u>
Engineer - Maintenance	[REDACTED]	[REDACTED]
[REDACTED]	[REDACTED]	[REDACTED]

9.1.6 SECURITY TEAM LEADER (1)

	<u>Home</u>	<u>Work</u>
Security Administrative Assistant [REDACTED]	[REDACTED]	[REDACTED]
Security Coordinator [REDACTED]	[REDACTED]	[REDACTED]
Site Captain - Operations Security (Protected Area) [REDACTED]	[REDACTED]	[REDACTED]

9.1.7 DOSE ASSESSMENT TEAM LEADER (ONE)

	<u>Home</u>	<u>Work</u>
Health Physicist [REDACTED] [REDACTED]	[REDACTED]	[REDACTED]

9.1.8 CHEMISTRY SAMPLING AND ANALYSIS TEAM LEADER (ONE)

	<u>Home</u>	<u>Work</u>
Sr. Chemist [REDACTED]	[REDACTED]	[REDACTED]
Supervisory Chemist [REDACTED]	[REDACTED]	[REDACTED]

9.1.9 COMMUNICATORS AND STATUS BOARD KEEPERS (FIVE MINIMUM)

Lead Communicators		
[REDACTED]	<u>Home</u>	<u>Work</u>
[REDACTED]	[REDACTED]	[REDACTED]

[REDACTED]	[REDACTED]	[REDACTED] or
[REDACTED]	[REDACTED]	[REDACTED]
[REDACTED]	[REDACTED]	[REDACTED]
[REDACTED]	[REDACTED]	[REDACTED]
[REDACTED]	[REDACTED]	[REDACTED] or
[REDACTED]	[REDACTED]	[REDACTED]
[REDACTED]	[REDACTED]	[REDACTED]
[REDACTED]	[REDACTED]	[REDACTED]
[REDACTED]	[REDACTED]	[REDACTED]
[REDACTED]	[REDACTED]	[REDACTED]
[REDACTED]	[REDACTED]	[REDACTED]
[REDACTED]	[REDACTED]	[REDACTED]
[REDACTED]	[REDACTED]	[REDACTED]
[REDACTED]	[REDACTED]	[REDACTED]
[REDACTED]	[REDACTED]	[REDACTED]
[REDACTED]	[REDACTED]	[REDACTED]

9.1.10 DATA DISPLAY OPERATOR (TWO)

	<u>Home</u>	<u>Work</u>
(ERFDS) [REDACTED]	[REDACTED]	[REDACTED]
[REDACTED]	[REDACTED]	
[REDACTED]	[REDACTED]	

10.0 REFERENCES

None

*AM Littel 9/27/64*PHILADELPHIA ELECTRIC COMPANY
LIMERICK GENERATING STATION
EMERGENCY PLAN IMPLEMENTING PROCEDURE| EP-284 COMPANY CONSULTANTS AND CONTRACTORS PHONE LIST1.0 PURPOSE

The purpose of this procedure is to provide information to contact PECO consultants and contractors.

2.0 RESPONSIBILITIES

2.1 The Communicator shall be responsible to contact contractor or consultants as their services are needed.

3.0 APPENDICES

None

4.0 PREREQUISITES

None

5.0 SPECIAL EQUIPMENT

None

6.0 SYMPTOMS

None

7.0 ACTION LEVEL

7.1 This procedure may be used when it is necessary to contact a company consultant or contractor.

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8.0 PRECAUTIONS

8.1 Requests for consultants or contractors shall be approved by the Site Emergency Coordinator or Emergency Director.

9.0 PROCEDURE

9.1 Actions

9.1.1 The Communicator shall contact the needed contractor or consultant by using the following list.

	<u>Address</u>	<u>Phone</u>
9.1.2	Chemistry Contractor (Later)	
9.1.3	Health Physics Contractor(s) (Later)	
9.1.4	General Electric Nuclear Energy Company, Emergency Support Program	[REDACTED] (24 hour emergency number)

[REDACTED]
[REDACTED]
Working Hours:
Manager of BWR
Product Service
Off Hours:
Answering
Service for
immediate call
back from GE

9.1.5 Underwater Technics, Inc. [REDACTED]
[REDACTED] (24 hour emergency numbers)

[REDACTED]
[REDACTED]
(home)

[REDACTED]
(home)

		<u>Address</u>	<u>Phone</u>
9.1.6	Radiation Management Corporation [Redacted] [Redacted] [Redacted]	[Redacted] [Redacted] [Redacted]	[Redacted] Emergency Business
9.1.7	Yoh, Inc. (Security Services)	On Site also: [Redacted] also: [Redacted]	[Redacted] or [Redacted] or [Redacted] [Redacted] [Redacted] (adminis- trative)
9.1.8	Institute of Nuclear Power Operations (INPO)	[Redacted] [Redacted] [Redacted]	[Redacted] (24 hrs.) Emergency [Redacted] (Business)
9.1.9	Babcock and Wilcox Lynchburg Research Ctr.		Emergency Control Officer [Redacted] Work [Redacted] Home [Redacted] Alternate [Redacted] Work [Redacted] Home [Redacted]
9.1.10	Bechtel Power Corporation	Security Control Center	[Redacted] [Redacted]

	<u>Address</u>	<u>Phone</u>
9.1.11	<u>Pooled Inventory Management</u>	(PIMS)
	Program Manager	
	[REDACTED]	[REDACTED]
		(Telecopier)
		(home)
	Alternate	
	[REDACTED]	[REDACTED]
		(Telecopier)
	off hours	(home)
	Alternate	
	[REDACTED]	[REDACTED]
		(work)

10.0 REFERENCES

None

*JM Latta 9/27/84*PHILADELPHIA ELECTRIC COMPANY
LIMERICK GENERATING STATION
EMERGENCY PLAN IMPLEMENTING PROCEDUREEP-291 STAFFING AUGMENTATION1.0 PURPOSE

The purpose of this procedure is to provide guidelines and information necessary to perform staff augmentation.

2.0 RESPONSIBILITIES

2.1 The shift clerk or other assigned person shall perform the following procedure.

3.0 APPENDICES

None

4.0 PREREQUISITES

None

5.0 SPECIAL EQUIPMENT

None

6.0 SYMPTOMS

None

7.0 ACTION LEVEL

This procedure shall be implemented at an Alert, a Site Emergency or a General Emergency.

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8.0 PRECAUTIONS

None

9.0 PROCEDURE

9.1 ACTIONS

- 9.1.1 The Shift Clerk or other assigned person shall:
- 9.1.1.1 Ask the (Interim) Emergency Director if the TSC and EOF or the TSC only is to be activated so this information can be given to the Dose Assessment Team Leader and Communicators.
- 9.1.1.2 Contact in sequence the personnel listed in Section 9.1.2.
- 9.1.1.3 Inform each person contacted of the event classification and that they are to respond to their assigned location. If the person is unable to respond, go to the next person on the list.
- 9.1.1.4 Attempt to contact personnel who have pagers, by that method if they are known to be "on the page", or the phone is busy or there is no answer.
- 9.1.1.5 Inform (Interim) Emergency Director of results including discrepancies.
- 9.1.2 Personnel to be contacted are:
- 9.1.2.1 SHIFT I&C TECHNICIAN

Communicator shall request that the TSC be activated. (Shift I&C Technician ext. [REDACTED] or [REDACTED])

<u>I&C Technician</u>	<u>Time</u>	<u>By</u>
_____	_____	_____
_____	_____	_____

9.1.2.2 EMERGENCY DIRECTOR

The Station Superintendent or Assistant Station Superintendent is contacted by communicator and is one contact. Do not re-contact if he has been successfully reached.

	<u>Time Called</u>	<u>Disposition-Busy, No Ans.-Contacted</u>	<u>Called By</u>
Station Supt. [REDACTED]	[REDACTED]		
	or [REDACTED]		
Asst. Station Supt. [REDACTED]	[REDACTED]		
	or [REDACTED]		

9.1.2.3 OPERATIONS ENGINEER

	<u>Time Called</u>	<u>Disposition-Busy, No Ans.-Contacted</u>	<u>Called By</u>
Operations Eng. [REDACTED]	[REDACTED]		
	or [REDACTED]		
[REDACTED]	[REDACTED]		

9.1.2.4 PERSONNEL SAFETY TEAM LEADER (ONE)

Communicator shall request call in of Personnel Safety Team Members.

	<u>Time Called</u>	<u>Disposition-Busy, No Ans.-Contacted</u>	<u>Called By</u>
Senior Health Physicist [REDACTED]	[REDACTED]		
	or [REDACTED]		
Applied HP [REDACTED]	[REDACTED]		
	or [REDACTED]		

9.1.2.5 DOSE ASSESSMENT TEAM LEADER (ONE)

Communicator shall request to call in team, and to report to the TSC or EOF as determined by Step 9.1.1.1.

	<u>Time Called</u>	<u>Disposition-Busy, No Ans.-Contacted</u>	<u>Called By</u>
Technical Support Health Physicist [REDACTED]	[REDACTED]	[REDACTED]	[REDACTED]
Sr. Physicist Corp. [REDACTED]	[REDACTED]	[REDACTED]	[REDACTED]

9.1.2.6 SHIFT MAINTENANCE SUB-FOREMAN

Extension [REDACTED] or page. Communicator shall request the Maintenance Sub-foreman to call three maintenance mechanics, preferably, one electrician and two machinists or fitters.

<u>Sub-foreman</u>	<u>Time</u>	<u>By</u>
_____	_____	_____

9.1.2.7 TECHNICAL SUPPORT PERSONNEL (ONE)

Communicator shall request call in of Technical Support Group Members.

	<u>Time Called</u>	<u>Disposition-Busy, No Ans.-Contacted</u>	<u>Called By</u>
Engineer [REDACTED]	[REDACTED]	[REDACTED]	[REDACTED]
Engineer Hopkins [REDACTED]	[REDACTED]	[REDACTED]	[REDACTED]
Engineer [REDACTED]	[REDACTED]	[REDACTED]	[REDACTED]
Reactor Engineer [REDACTED]	[REDACTED]	[REDACTED]	[REDACTED]

9.1.2.8 COMMUNICATORS (ONE)

Communicator shall request call in of members for the TSC or EOF as determined by Step 9.1.1.1.

	<u>Time Called</u>	<u>Disposition-Busy, No Ans.-Contacted</u>	<u>Called By</u>
Technical Support Center (TSC) Communicator	[REDACTED]	[REDACTED]	[REDACTED]
		or	[REDACTED]
Alternate	[REDACTED]	[REDACTED]	[REDACTED]
		or	[REDACTED]
EOF Communicator	[REDACTED]	[REDACTED]	[REDACTED]
		or	[REDACTED]
Alternate	[REDACTED]	[REDACTED]	[REDACTED]
		or	[REDACTED]

9.1.2.9 CHEMISTRY SAMPLING and ANALYSIS TEAM LEADER (ONE)

Communicator shall request call in of Chemistry Sampling and Analysis Team Members.

	<u>Time Called</u>	<u>Disposition-Busy, No Ans.-Contacted</u>	<u>Called By</u>
Sr. Chemist	[REDACTED]	[REDACTED]	[REDACTED]
		or	[REDACTED]
Supv.-Chemist	[REDACTED]	[REDACTED]	[REDACTED]
		or	[REDACTED]

9.1.2.10 FIRE AND DAMAGE TEAM LEADER (ONE)

Communicator shall request call in of Fire and Damage Team Members.

	<u>Time Called</u>	<u>Disposition-Busy, No Ans.-Contacted</u>	<u>Called By</u>
Engineer Maintenance	[REDACTED]		
[REDACTED]	or [REDACTED]		
[REDACTED]	[REDACTED]		
[REDACTED]	or [REDACTED]		

9.1.2.11 SECURITY TEAM LEADER (ONE)

	<u>Time Called</u>	<u>Disposition-Busy, No Ans.-Contacted</u>	<u>Called By</u>
Security Administrative Assistant	[REDACTED]		
[REDACTED]	or [REDACTED]		
Security Coordinator	[REDACTED]		
[REDACTED]	or [REDACTED]		
Site Captain (Protected Area)	[REDACTED]		
[REDACTED]	or [REDACTED]		

10.0

REFERENCES

- 10.1 NUREG 0654 Criteria for Preparation and Evaluation of Radiological Emergency Response Plans and Preparedness in Support of Nuclear Power Plants
Rev. 1

PHILADELPHIA ELECTRIC COMPANY
LIMERICK GENERATING STATION
EMERGENCY PLAN IMPLEMENTING PROCEDURE

Y.W/mla
9/27/84

EP-292 CHEMISTRY SAMPLING AND ANALYSIS TEAM PHONE LIST

1.0 PURPOSE

The purpose of this procedure is to provide guidelines and information for notification of the Chemistry Sampling and Analysis Team.

2.0 RESPONSIBILITIES

2.1 The Chemistry Sampling and Analysis Team Leader shall be responsible to call team members.

3.0 APPENDICES

None

4.0 PREREQUISITES

None

5.0 SPECIAL EQUIPMENT

None

6.0 SYMPTOMS

None

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7.0 ACTION LEVEL

This procedure can be used when the Chemistry Sampling and Analysis Team is activated or when additional personnel are needed.

8.0 PRECAUTIONS

None

9.0 PROCEDURE

9.1 ACTIONS

9.1.1 The Chemistry Sampling and Analysis Team Leader shall call in people from the following list until appropriate positions are filled.

9.1.1.1 CHEMISTRY SAMPLING AND ANALYSIS TEAM LEADER

Home

Work

[REDACTED]

[REDACTED]

[REDACTED]

9.1.1.2 CHEMISTRY SAMPLING AND ANALYSIS GROUP LEADER (One)

Home

Work

[REDACTED]

[REDACTED]

[REDACTED]

9.1.1.3 CHEMISTRY SAMPLING AND ANALYSIS GROUP MEMBERS

Home

Work

[REDACTED]

[REDACTED]

[REDACTED]

Home

Work

[REDACTED]

[REDACTED]

[REDACTED]

10.0 REFERENCES

None

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J. Reed 9/25/84

PHILADELPHIA ELECTRIC COMPANY
LIMERICK GENERATING STATION
EMERGENCY PLAN IMPLEMENTING PROCEDURE

EP-305 SITE EVACUATION

1.0 PURPOSE

The purpose of this procedure is to define the actions to be performed if a site evacuation is required.

2.0 RESPONSIBILITIES

- 2.1 The (Interim) Emergency Director shall direct the evacuation of the site by performing the necessary steps in this procedure.
- 2.2 Security shall perform accountability of personnel during the evacuation.
- 2.3 Bechtel/Subcontractor personnel shall evacuate in accordance with Bechtel procedures.
- 2.4 Non-essential Unit 1 and Unit 2 personnel shall evacuate.

3.0 APPENDICES

None

4.0 PREREQUISITES

None

5.0 SPECIAL EQUIPMENT

None

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6.0 SYMPTOMS

- 6.1 An actual or potential release exceeding that specified as an Alert or Site Emergency levels in EP-101 Classifications of Emergencies.

7.0 ACTION LEVEL

This procedure shall be implemented when a symptom of section 6.0 occurs or at the discretion of the (Interim) Emergency Director.

8.0 PRECAUTIONS

- 8.1 The decision to evacuate personnel as a protective action should be based on the determination that it will result in the lowest personnel exposure in comparison with other protective action options.
- 8.2 Consider the dose rates at the personnel assembly areas, onsite, and along evacuation routes, number of personnel onsite, and the potential for mitigating or terminating the emergency prior to personnel receiving exposures in excess of the protective action guides.
- 8.3 Initiate site evacuations before or after the passage of the release, and when practical, evacuation routes shall be given to lead personnel away from the path of the plume.

9.0 PROCEDURE

9.1 ACTIONS

- 9.1.1 (Interim) Emergency Director shall:
- 9.1.1.1 Determine the offsite assembly area based on wind direction, weather conditions, and other pertinent information:
- Cromby Generating Station or,
Limerick Airport

- 9.1.1.2 Determine route to be used to leave site i.e. main gate on back gate. If wind is from south consider using back gate any other direction consider the main gate.

IF THE WIND DIRECTION IS FROM SOUTHWEST, CONSIDER USING CROMBY GENERATING STATION. ANY OTHER WIND DIRECTION CONSIDER USING LIMERICK AIRPORT.

- 9.1.1.3 Notify and inform the (Interim) Security Team Leader of the following information:

- A. Chosen exit points and routes and selected offsite assembly areas.
- B. Implement EP-208, Security Team Activation for Site Evacuation. (step 9.1.1.6)

- 9.1.1.4 Notify and inform the (Interim) Personnel Safety Team Leader of the following information:

- A. Chosen exit points routes and selected offsite assembly areas.
- B. Implement the applicable actions in EP-254, Vehicle and Evacuee Control Group.

- 9.1.1.5 Evacuate all construction personnel by contacting Bechtel Safety [REDACTED] or security [REDACTED] and direct them to call for a "Total Project Evacuation" in accordance with Bechtel procedures, if not already done and direct them to report to the selected offsite assembly areas using the selected routes for leaving the site.

- 9.1.1.6 Implement the evacuation of the information center in accordance with EP-306 Evacuation of the Information Center [REDACTED] or [REDACTED], if not already done.

- 9.1.1.7 When the (Interim) Security Leader is ready (see 9.1.1.3), direct the ACTIVATION OF THE ALARM in accordance with EP-301, Operating the Evacuation and River Warning System.

ACTIVATE BOTH THE SIREN AND THE RIVER
WARNING MESSAGE.

9.1.1.8 When the alarms are silent, ANNOUNCE
EVACUATION as follows:

"ATTENTION. ALL PERSONNEL. THIS (IS)(IS NOT)
A DRILL. THIS (IS)(IS NOT) A DRILL. THIS
IS A SITE EVACUATION. DESIGNATED EMERGENCY
PERSONNEL REPORT TO ASSIGNED EMERGENCY
RESPONSE FACILITIES. ALL OTHER PERSONNEL
EVACUATE THE SITE IMMEDIATELY. ALL
EVACUATING PERSONNEL SHALL RE-ASSEMBLE AT
THE (CROMBY GENERATING STATION OR THE
LIMERICK AIRPORT). THIS (IS)(IS NOT) A
DRILL. THIS (IS)(IS NOT) A DRILL.

9.1.1.9 Activate alarms again.

9.1.1.10 Repeat announcement. Make announcement on
unit 2 page

9.1.1.11 Direct the workers at the RMC facility on
[REDACTED] to evacuate [REDACTED]

9.2 FOLLOW-UP

9.2.1 Security shall:

9.2.1.1 Perform accountability of personnel in
accordance with EP-110, Personnel Assembly
and Accountability.

9.2.1.2 Inform the (Interim) Emergency Director of
unaccounted for personnel.

9.2.2 (Interim) Emergency Director shall:

9.2.2.1 Direct the (Interim) Personnel Safety Team
Leader to initiate search and rescue
operations for any unaccounted for personnel
in accordance with EP-252, Search &
Rescue/First Aid.

9.2.3 Bechtel/Subcontractor (Unit 2) Personnel
shall:

9.2.3.1 Evacuate in accordance with Bechtel
procedures, using personal vehicle to leave
the site.

- 9.2.4 Non-Essential Unit 1 personnel shall:
 - 9.2.4.1 Exit the protected area through the Admin Guard House or Technical Support Center by depositing security badges and dosimetry into containers, and report to the selected offsite assembly area, using personal vehicles.
 - 9.2.4.2 Follow vehicle evacuation routes as directed by Security personnel.
- 9.2.5 Designated Emergency Team Personnel shall:
 - 9.2.5.1 Report to their designated assembly area in accordance with Appendix EP-110-1, Emergency Assembly Areas.

10.0 REFERENCES

- 10.1 Limerick Generating Station Emergency Plan
- 10.2 NUREG 0654, Criteria for Preparation and Evaluation of Rev. 2 Radiological Emergency Response Plans and Preparedness in Support of Nuclear Power Plants.
- 10.3 EP-252 Search and Rescue/First Aid
- 10.4 EP-101 Classification of Emergencies
- 10.5 EP-110 Personnel Assembly and Accountability
- 10.6 EP-208 Security Team Activation
- 10.7 EP-254 Vehicle And Evacuee Control Group
- 10.8 EP-301 Operation of the Evacuation Alarm and River Warning System
- 10.9 EP-306 Evacuation of the Information Center