

EP-201 Rev. 0
11/1/83

PHILADELPHIA ELECTRIC COMPANY
LIMERICK GENERATING STATION
EMERGENCY PLAN IMPLEMENTING PROCEDURE

EP-201 TECHNICAL SUPPORT CENTER (TSC) ACTIVATION

1.0 PURPOSE

The purpose of this procedure is to describe the instructions and actions required for the activation, manning, and operation of the Technical Support Center (TSC).

2.0 RESPONSIBILITIES

- 2.1 The Emergency Director or Interim Emergency Director shall direct the activation of the Technical Support Center by performing the necessary steps of this procedure.
- 2.2 Shift I & C Technician shall activate the equipment in the TSC.
- 2.3 Communicators shall man assigned phones and communications log.
- 2.4 Status Board Recorders shall obtain and post information on assigned status boards.
- 2.5 Health Physics Technician shall perform a habitability check of the TSC.

3.0 APPENDICES

- 3.1 EP-201-1 Technical Support Center HVAC System 'Emergency' Mode
- 3.2 EP-201-2 TSC Equipment Activation
- 3.3 EP-201-3 Plant Parameter Status Board
- 3.4 EP-201-4 Event Chronology Status Board
- 3.5 EP-201-5 Offsite Communications Status Board



- 3.6 EP-201-6 Staff Assignment Status Board
- 3.7 EP-201-7 Site Radiological Status Board
- 3.8 EP-201-8 Field Survey Status Board
- 3.9 EP-201-9 Fire/Damage Status Board
- 3.10 EP-201-10 Dose Assessment Status Board
- 3.11 EP-201-11 TSC Telephone Check List

4.0 PREREQUISITES

None

5.0 SPECIAL EQUIPMENT

None

6.0 SYMPTOMS

None

7.0 ACTION LEVEL

- 7.1 Activate the TSC when an event has been classified as an Alert, Site Emergency 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 TSC habitability prior to or during activation.
- 8.2 Ensure TSC ventilation system is operating and that air samples are taken periodically to measure potential airborne contamination.
- 8.3 Incoming personnel should enter the protected area through the TSC Guard Station.

- 8.4 If the security computer is not operable, maintain a sign-in, sign-out log for personnel reporting to the TSC.
- 8.5 Ensure that pertinent actions and notifications are logged.

9.0 PROCEDURE

9.1 IMMEDIATE ACTIONS

- 9.1.1 Emergency Director or Interim Emergency Director shall:
 - 9.1.1.1 Assign an I & C Technician to perform the steps in Appendix EP-201-1 Placing the Technical Support Center HVAC System in the 'Emergency' Mode and to perform the steps outlined in Appendix EP-201-2 TSC Equipment Activation.
 - 9.1.1.2 Assign an individual the duties of Emergency Director's Communicator and direct the individual to perform the steps outlined in Section 9.1.3 of this procedure.
 - 9.1.1.3 Direct a HP Technician to perform a habitability check of the TSC per EP-330 Emergency Response Facility Habitability.
 - 9.1.1.4 Obtain status updates on plant conditions from the Control Room and have a log of significant events and actions maintained.

The Event Chronology Log shall include at least the following:
 - A. Date and Time (use 24 hr. notation)
 - B. Significant Event
 - C. Significant Action
- 9.1.2 Shift I&C Technician shall:
 - 9.1.2.1 Use attached Appendices EP-201-1 and EP-201-2 to turn on lighting, and Particulate, Iodine and Noble Gas Monitor (PING), and to place the HVAC in Emergency Mode.

- 9.1.3 Emergency Director's Communicator shall:
 - 9.1.3.1 Using Appendix EP-201-11 TSC Telephone Checkoff List, verify communications capability exists from the Technical Support Center.
 - 9.1.3.2 Inform the Emergency Director when the communications capabilities have been verified or of any discrepancies.
 - 9.1.3.3 Man communications lines as directed by the Emergency Director and maintain a Communications Log containing information received from and sent to Emergency Centers and offsite agencies.

The log shall include as a minimum the following information:

- A. Date and Time (use 24 hour time notation)
 - B. Messages received or sent
 - C. Name of person information was received or sent to and location
 - D. Name and initials of person making entries
- 9.1.3.4 Inform the Emergency Director promptly of all information received from on site groups and offsite agencies.

9.2 FOLLOW-UP ACTIONS

- 9.2.1 Emergency Director shall:
 - 9.2.1.1 Ensure that the TSC Guard Station is activated.
 - 9.2.1.2 Direct the communicator to call in additional personnel if needed. Use EP-280 Technical Support Center Group Phone List.
 - 9.2.1.3 Assure that individuals are available as Status Board Recorders for necessary status boards.
 - A. Plant Parameter Status Board

- B. Event Chronology Status Board
- C. Offsite Communications Status Board
- D. Staff Assignment Status Board
- E. Plant Radiological Status Board.
- F. Field Survey Status Board.
- G. Fire/Damage Status Board.
- H. Dose Assessment Status Board.

- 9.2.1.4 Direct the Status Board Recorder(s) to perform the steps outlined in Section 9.2.2 of these Follow-up Actions.
- 9.2.1.5 Assign an individual to man the communication lines to the Control Room and Operations Support Center and direct the individual to perform the steps outlined in Section 9.2.3 of this procedure.
- 9.2.1.6 If necessary, assign two individuals to man the telephone consoles and direct the individual to perform the steps outlined in Section 9.2.3 of this procedure.
- 9.2.1.7 If necessary, assign a communicator to the Field Survey Group Leader for sending field survey data, and other information to the Emergency Operations Facility (EOF). And, to perform the steps outlined in Section 9.2.3 of this procedure.
- 9.2.1.8 Assign individuals to be data display operators.
- 9.2.1.9 Inform the control room when the Technical Support Center is operational and manned and assuming control.
- 9.2.1.10 Brief the TSC staff on their arrival and periodically (normally every 30 minutes) on the status of the emergency and pertinent plant conditions.
- 9.2.1.11 Contact the various Team Leaders for status updates.

9.2.2 Status Board Recorders shall:

9.2.2.1 Fill in their assigned status board(s).

Format and content of the status board are given in the following appendices:

- A. Appendix EP-201-3, Plant Parameter Status Board
- B. Appendix EP-201-4, Event Chronology Status Board
- C. Appendix EP-201-5, Offsite Communications Status Board
- D. Appendix EP-201-6, Staff Assignment Status Board
- E. Appendix EP-201-7, Plant Radiological Status Board
- F. Appendix EP-201-8, Field Survey Status Board
- G. Appendix EP-201-9, Fire/Damage Status Board
- H. Appendix EP-201-10, Dose Assessment Status Board

9.2.2.2 Contact the following individuals for the various status board information.

- A. Data Display Operators for plant status information.
- B. Emergency Director's Communicator to Control Room for event chronology information.
- C. Emergency Director's Communicator for offsite communication information.
- D. Emergency Director's Communicator for staff assignment information.
- E. OSC Coordinator for site radiological status.
- F. Field Survey Group Leader for Field Survey Status.

G. Fire and Damage Team Leader for
Fire/Damage Status Board.

H. Dose Assessment Team Leader for Dose
Assessment Status Board.

- 9.2.2.3 As information is received, post on assigned
status board and maintain a log record of
all status board entries.

Transmit plant status information and event
chronology information to appropriate Status
Board Recorders at the EOF, if activated.

- 9.2.2.4 Review and update the status board as
changes in plant conditions or information
warrant.

- 9.2.2.5 Inform the Emergency Director as significant
changes in status board information are
noted.

- 9.2.3 Communicators shall:

- 9.2.3.1 When directed, use EP-280 Technical Support
Center Group Phone List to call in
additional personnel.

- 9.2.3.2 Man assigned communication lines.

- 9.2.3.3 Maintain a Communications Log containing
information received from and sent to other
emergency response facilities and other
support organizations.

The log shall include as a minimum the
following information:

- A. Date and time (use 24 hour time
notation)
- B. Summary of messages received or sent
- C. Name of person information was received
from or sent to
- D. Name and initials of person making
entries

- 9.2.3.4 Inform the Emergency Director or appropriate Team Leader promptly of all information received from or sent to members of the emergency response organization or support organizations.
- 9.2.4 HP Technician shall:
 - 9.2.4.1 Periodically reverify habitability per EP-330 Emergency Response Facilities Habitability.

10.0 REFERENCES

- 10.1. Limerick Generating Station Emergency Plan
- 10.2 NUREG 0654, Criteria for Preparation and Evaluation of
Rev. 1 Radiological Emergency Response Plans
and Preparedness in Support of Nuclear
Nuclear Power Plants.
- 10.3 NUREG 0696 Functional Criteria for Emergency
Response Facilities.
- 10.4 EP-280 Technical Support Center Group Phone List.
- 10.5 EP-330 Emergency Response Facilities Habitability
- 10.6 S81.1.B Startup of the Technical Support Center
Heating, Ventilation and Air Conditioning System

APPENDIX EP-201-1
TECHNICAL SUPPORT CENTER HVAC SYSTEM 'EMERGENCY MODE'

1. The TSC HVAC System should be operating in the 'Normal' mode per procedure S81.1.B Startup of The Technical Support Center Heating, Ventilating, and Air Conditioning System. If not, start up the system per S81.1.B.

A TWO POSITION MANUAL SWITCH, LOCATED IN THE DISPLAY AREA ON THE EASTERN COLUMN IS PROVIDED FOR SWITCHING THE TECHNICAL SUPPORT CENTER'S HEATING, VENTILATION & AIR CONDITIONING SYSTEM FROM THE NORMAL MODE OF OPERATION TO THE EMERGENCY MODE OF OPERATION.

2. Turn the control switch on the eastern column of the display area to its "EMERGENCY" position in order to actuate the emergency mode.
3. Inform the Emergency Director that the HVAC System is functioning in the 'Emergency' mode.

IMMEDIATELY FOLLOWING INITIATION OF THE EMERGENCY MODE, THE FOLLOWING ACTIONS WILL OCCUR IN THE MECHANICAL EQUIPMENT ROOM. VERIFY VISUALLY THAT ACTIONS B, E and F TAKE PLACE.

- A. The filter for Unit ME-03 is activated provided its respective On-Off-Standby Switch is in the "STANDBY" position.
- B. Once Fan ME-03 is activated, Dampers (MD4, MD5, and MD6) open to prescribed positions.
- C. MD4 modulates under the control of the airflow monitor to maintain a 3000 cfm flow rate as read on the airflow monitor panel in the mechanical equipment room.
- D. MD5 and MD6 open to admit 2000 cfm and 1000 cfm respectively.
- E. MD1 closes and MD2 opens to a new prescribed position to admit 5200 cfm.
- F. Exhaust Fan ME-07 stops.

APPENDIX EP-201-2
TSC EQUIPMENT ACTIVATION

1. Enter the TSC Display area and turn on display area lighting switches on the wall by the enter door and by the conference room.
2. Turn on the Particulate-Iodine-Noble Gas Monitor (PING) located in the equipment room.
3. Turn on CRT's per posted procedures.
4. Check the radios in the equipment room for operability.
5. Inform the Emergency Director when the TSC Equipment setup is complete and of any equipment problems.

APPENDIX EP-201-3
LGS PLANT PARAMETER STATUS - UNIT NO. _____

DATE: _____

<u>Radiological Parameters</u> Time _____	<u>Reactor Parameters</u> Time _____	<u>Meteorological Parameters</u> Time _____
North Stack _____ cps _____ mr/hr	Power _____ %	Ave. Wind _____
Speed _____ mph		
North Stack Flow _____ cfm	Level _____ inches	Ave. Wind Direction _____ (from)
South Stack _____ cps _____ mr/hr	Pressure _____ psig	Ave. Radiation Reading _____ mr/hr
South Stack Flow _____ cfm	<u>Containment Parameters</u>	Ave. Ambient Temp. _____ f
D/W Rad Monitor _____ mr/hr	Drywell pressure _____ psig	Precipitation _____
Refuel Floor Exh. _____ mr/hr	Drywell Temp _____ f	Stability Class _____
Air Ejector Offgas _____ mr/hr	Suppression Pool Temp _____ f	Wind Speed () _____ (Tower 1)
R/W Monitor _____ cpm	*Suppression Pool Level _____ in	Wind Speed () _____ (Tower 2)
	Containment _____ %O _____ %H2	

<u>Reactivity Control</u> Time _____	<u>Level Control</u> Time _____	<u>Containment Control</u> Time _____
# Of Rods not inserted _____	F.W.A. On Unavail/Reason	Sup. Sup.
	B	Pool Pool D/W S/D Unavail/
	C	RHR Cool Spray Spray Cool Reason
<u>SBLC Inj. Unavail/Reason</u>	CRD A	A
A	B	B
B	HPCI	C
C	RCIC	D
	Cond. A	
<u>SBLC Tank Level</u> _____	B	<u>RHR SW On Unavail/Reason</u>
	C	A
<u>Pressure Control</u> Time _____	C.S.A.	B
	B	C
	C	D
<u>#Bypass Valves Open</u> _____	D	

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

Source	Supplying	Unavail/Reason
220 kv		
1 offsite		
500 kv		
2 offsite		
D- 1		
D- 2		
D- 3		
D- 4		

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

LPCI A		
B		
C		
D		
RHRW A		
B		
C		
D		
Cond.		
Trans.		
Refuel		
Trans.		
SBL/C		

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-201-6
STAFF ASSIGNMENT STATUS BOARD

DATE:

TITLE	NAME	LOCATION
Shift Superintendent		
Shift Supervisor		
Emergency Director		
Personnel Safety Team Leader		
Fire/Damage Team Leader		
Site Emergency Coordinator		
Health Physics/Chemistry Coordinator		
Radiation Protection Team Leader		
Dose Assessment Team Leader		
Chemistry Sampling & Analysis Team Leader		
Field Survey Group Leader		
EOF Liaison		
Procedure Support Coordinator		
Planning and Scheduling Coordinator		
Mechanical Engineer Liaison		
Electrical Engineer Liaison		
Emergency Support Officer		

FIELD SURVEY STATUS BOARD

DATE :

TIME	LOCATION	BETA & GAMMA(mr/hr)	IODINE (uCi/cc)	COMMENT

APPENDIX EP-201-10
DOSE ASSESSMENT DATA STATUS BOARD

Wind Direction:

NOBLE GAS

IODINE

Turb. Class:

T= T= T= T= T= T= T= T= T= T=

Windspeed (mph)

Dose Rate (mr/hr)

Integrated Dose (r)

Dose in T+2 hr (r)

Dose in T+6 hr (r)

Dose Rate (mr/hr)

Integrated Dose (r)

Dose in T+2 hr (r)

Dose in T+6 hr (r)

Dose Rate (mr/hr)

Integrated Dose (r)

Dose in T+2 hr (r)

Dose in T+6 hr (r)

Dose Rate (mr/hr)

Integrated Dose (r)

Dose in T+2 hr (r)

Dose in T+6 hr (r)

Dose Rate (mr/hr)

Integrate Dose (r)

Dose in T+2 hr (r)

Dose in T+6 hr (r)

Dose Rate (mr/hr)

Integrated Dose (r)

Dose in T+2 hr (r)

Date:

Release Point:

Est. Release

Potential Release

Source Term Study

Est. Activity:

Est. Release Rate:

Highest Off Site

Dose Rate:

[Signature] 11/11/53

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

4.0 PREREQUISITES

None

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 IMMEDIATE 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 Ensure that a log of pertinent actions is kept.

- 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 and maintain the OSC log and status board.
- 9.1.1.4 Notify the Control Room when the Operations Support Center is manned and that communications are satisfactory between the Technical Support Center and the Operations Support Center.
- 9.1.1.5 Procure equipment and supplies necessary to assist in responding to the emergency.
- 9.1.1.6 Have an HP Technician set up a portable area radiation monitor (if available) or use a survey meter to monitor radiation levels.

9.2 FOLLOW-UP ACTIONS

- 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 assistance as needed by 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 Upon leaving the Operations Support Center for any reason, delegate the duties to the remaining senior operator or HP technician.
 - 9.2.1.5 Assign a HP Technician to periodically reverify habitability using EP-330 Emergency Response Facility Habitability.

10.0 REFERENCES

- 10.1 Limerick Generating Station Emergency Plan

- 10.2 Nureg 0654, Criteria for Preparation and Evaluation of
Rev. 1 Radiological Emergency Response Plans and
Preparedness in Support of Nuclear Power Plants.
- 10.3 Nureg 0696 Functional Criteria for Emergency Response
Facilities.
- 10.4 10 CFR 20
- 10.5 EP-330 Emergency Response Facilities Habitability

APPENDIX EP-202-1
OSC - OPERATOR ASSIGNMENT STATUS BOARD

DATE:

<u>TIME</u>	<u>JOB DESCRIPTION</u>	<u>OPERATORS SENT (NAME)</u>	<u>MAINTENANCE CALLED</u>	<u>ESTIMATED RETURN TIME</u>
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APPENDIX EF-202-2
OSC - HP ASSIGNMENT STATUS BOARD

DATE:

<u>TIME</u>	<u>JOB DESCRIPTION</u>	<u>HP'S SENT (NAMES)</u>	<u>RADIATION PROBLEMS</u>	<u>ESTIMATED RETURN TIME</u>
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APPENDIX EP-202-3
OSC PLANT STATUS BOARD

UNIT _____	TIME: _____			
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	A:	B:	C:	
SBGT Fans	A:	B:	A SBGT Filter B SBGT Filter	
Containment H2 Recomb.	A:	B:		
HPCI:				
RCIC:				
SBGT Filter:	A:	B:		

Span
11/1/83

PHILADELPHIA ELECTRIC COMPANY
LIMERICK GENERATING STATION
EMERGENCY PLAN IMPLEMENTING PROCEDURE

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 Dose Assessment Team Leader or other individual appointed by Emergency Director shall activate the EOF by performing the necessary steps in this procedure.
- 2.2 The Site Emergency Coordinator 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 Plant Parameter Status Board
- 3.2 EP-203-2 Event Chronology Status Board
- 3.3 EP-203-3 Staff Assignment Status Board
- 3.4 EP-203-4 Headquarters Support Requests Status Board
- 3.5 EP-203-5 Offsite Communications Status Board
- 3.6 EP-203-6 Field Survey Status Board
- 3.7 EP-203-7 Dose Assessment Data Status Board

- 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 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 IMMEDIATE ACTIONS

9.1.1 The Dose Assessment Team Leader or alternate shall:

9.1.1.1 Obtain keys for EOF from the Plymouth Dispatch office.

NOTE: ENSURE THAT ONLY INDIVIDUALS WITH OFFICIAL BUSINESS ARE ALLOWED TO ENTER THE EOF. IF THE DOOR IS TO BE LEFT OPEN, AN INDIVIDUAL WILL BE STATIONED AT THE DOOR TO CONTROL ACCESS.

9.1.1.2 Assign an individual if available, the duties of the Site Emergency Coordinator Communicator and direct the individual to perform the steps outlined in Section 9.1.2 of these immediate actions or perform them himself.

9.1.1.3 Obtain status updates on plant conditions from the Control Room or Technical Support Center and maintain a record of all significant events and actions.

9.1.2 The Site Emergency Coordinator Communicator shall:

9.1.2.1 Use Appendix EP-203-9 to activate the EOF equipment.

9.1.2.2 Verify communications capability by completing Appendix EP-203-8, EOF Phone Check List.

9.1.2.3 Use EP-279, Emergency Operations Facility Group Phone List to call in additional personnel to staff the EOF, if necessary.

9.1.2.4 Inform the Dose Assessment Team Leader or alternate when the above communications capabilities have been verified or of any problems.

- 9.1.2.5 Man communications lines in the Site Emergency Coordinator Office and maintain a communications log containing information received from and sent to other facilities and other organizations.

NOTE: ENSURE ALL PERTINENT ACTIONS AND NOTIFICATIONS ARE LOGGED.

- 9.1.2.6 Establish a log book for purposes of accountability in which people can sign-in and out as they enter or leave the EOF.

9.2 FOLLOW-UP ACTIONS

NOTE: 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 an individual to each of the following status board groups and direct the individual to perform the steps outlined in section 9.2.4 of this procedure.

- A. Plant Parameter Status Board
- B. Event Chronology Status Board
- C. Staff Assignment Status Board
- D. Headquarters Support Requests Status Board
- E. Offsite Communications Status Board
- F. Field Survey Status Board
- G. Dose Assessment Data Status Board

- 9.2.1.2 Ensure that an individual is assigned as the Site Emergency Coordinator Communicator.

- 9.2.1.3 Inform the Technical Support Center when the Emergency Operations Facility is operational and manned and will assume 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 a Communicator to transmit all Status Board information to the Headquarters Emergency Support Center Status Board Recorder.

9.2.3 Dose Assessment Team Leader shall:

9.2.3.1 Assign individuals to perform Dose Projection Calculations at the EOF in accordance with EP-210, Dose Assessment Team Activation, if a release of radioactive material has occurred or is expected.

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, Plant Parameter Status Board
- B. Appendix EP-203-2, Event Chronology Status Board
- C. Appendix EP-203-3, Staff Assignment Status Board
- D. Appendix EP-203-4, Headquarters Support Requests Status Board
- E. Appendix EP-203-5, Offsite Communications Status Board
- F. Appendix EP-203-6, Field Survey Status Board
- G. Appendix EP-203-7, Dose Assessment Data Status Board

9.2.4.2 Contact the following individuals for the various Status Board 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 Communicator for Staff Assignment Information and Headquarters Support Requests.
 - D. Emergency Director, Site Emergency Coordinator, or Control Room for offsite communication information.
 - E. Field Survey Group Leader for field survey data.
 - F. Dose Assessment Team Leader for Dose Assessment Data.
- 9.2.4.3 Post appropriate information on assigned status board and maintain a log record of all Status Board entries.
 - 9.2.4.4 Review and update the Status Board as changes in plant conditions or information warrants.
 - 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 Evaluation of
Rev. 1 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

<u>Radiological Parameters</u> Time _____	<u>Reactor Parameters</u> Time _____	<u>Meteorological Parameters</u> Time _____
North Stack _____ cps _____ mr/hr	Power _____ %	Ave. Wind _____
Speed _____ mph	Level _____ inches	Ave. Wind Direction _____ (from)
North Stack Flow _____ cfm	Pressure _____ psig	Ave. Radiation Reading _____ mr/hr
South Stack _____ cps _____ mr/hr	<u>Containment Parameters</u>	Ave. Ambient Temp. _____ f
South Stack Flow _____ cfm	Drywell pressure _____ psig	Precipitation _____
D/W Rad Monitor _____ mr/hr	Drywell Temp _____ f	Stability Class _____
Refuel Floor Exh. _____ mr/hr	Suppression Pool Temp _____ f	Wind Speed () _____ (Tower 1)
Air Ejector Offgas _____ mr/hr	*Suppression Pool Level _____ in	Wind Speed () _____ (Tower 2)
R/W Monitor _____ cpm	Containment _____ %O _____ %H2	

<u>Reactivity Control</u> Time _____	<u>Level Control</u> Time _____	<u>Containment Control</u> Time _____
# Of Rods not inserted _____	F.W.A. On Unavail/Reason _____	Sup. Sup. _____
	B _____	Pool Pool D/W S/D Unavail/
	C _____	RHR Cool Spray Spray Cool Reason
SBLC Inj. Unavail/Reason _____	CRD A _____	A _____
A _____	B _____	B _____
B _____	HPCI _____	C _____
C _____	RCIC _____	D _____
SBLC Tank Level _____	Cond. A _____	
	B _____	RHR SW On Unavail/Reason _____
	C _____	A _____
Pressure Control Time _____	C.S.A. _____	B _____
	B _____	C _____
	C _____	D _____
#Bypass Valves Open _____	D _____	

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

Open _____
Closed _____
Was Open _____
Power Supplies Time _____

Source Supplying Unavail/Reason

220 kv _____
1 offsite _____
500 kv _____
2 offsite _____

D- 1 _____

D- 2 _____

D- 3 _____

D- 4 _____

Bus Offsite Diesel# Unavail

D1 1 _____

D1 2 _____

D1 3 _____

D1 4 _____

LPCI A

B _____

C _____

D _____

RHRSW A

B _____

C _____

D _____

Cond. _____

Trans. _____

Refuel _____

Trans. _____

SBLC _____

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-203-2
EVENT CHRONOLOGY STATUS BOARD

Date:

TIME	EVENT	EVENT
	NO.	

APPENDIX EP-203-3
STAFF ASSIGNMENT STATUS BOARD

Date:

<u>TITLE</u>	<u>NAME</u>	<u>LOCATION</u>
SHIFT SUPERINTENDENT		
SHIFT SUPERVISOR		
EMERGENCY DIRECTOR		
FIRE/DAMAGE TEAM LDR.		
PERSONNEL SAFETY TEAM LDR.		
SITE EMERG. COORD.		
HEALTH PHYSICS/CHEM. COORD.		
RADIATION PROTECTION TEAM LDR.		
DOSE ASSESSMENT TEAM LEADER		
FIELD SURVEY GROUP LEADER		
EOF LIAISON - CORP. COMM.		
PROCEDURE SUPPORT COORDINATOR		
<u>PLANNING AND SCHEDULING</u> COORDINATOR		
MECH. ENGR. LIAISON		
ELEC. ENGR. LIAISON		
EMERGENCY SUPPORT OFFICER		
CORP. SPOKESMAN		
OSC COORDINATOR		

APPENDIX EP-203-4
HEADQUARTERS SUPPORT REQUESTS STATUS BOARD

Date:

<u>TIME</u>	<u>SUBMITTED TO</u>	<u>ITEM</u>	<u>RESPONSE STATUS</u>
-------------	---------------------	-------------	------------------------

APPENDIX EP-203-5
OFFSITE COMMUNICATIONS STATUS BOARD

Date:

<u>TIME</u>	<u>OFFSITE COMMUNICATIONS</u>	<u>RESPONSE/COMMENT</u>
-------------	-----------------------------------	-------------------------

APPENDIX EP-203-6
FIELD SURVEY STATUS BOARD

Date:

TIME	LOCATION	BETA & GAMMA(mr/hr)	IODINE (uCi/cc)	COMMENT
------	----------	------------------------	--------------------	---------

APPENDIX EP-203-7
DOSE ASSESSMENT DATA STATUS BOARD

Wind Direction:

NOBLE GAS

IODINE

Turb. Class:

T= T= T= T= T= T= T= T= T=

Windspeed (mph)

Date:

Release Point:

Dose Rate (mr/hr)

Integrated Dose (r)

Dose in T+2 hr (r)

Dose in T+6 hr (r)

Dose Rate (mr/hr)

Integrated Dose (r)

Dose in T+2 hr (r)

Dose in T+6 hr (r)

Dose Rate (mr/hr)

Integrated Dose (r)

Dose in T+2 hr (r)

Dose in T+6 hr (r)

Dose Rate (mr/hr)

Integrated Dose (r)

Dose in T+2 hr (r)

Dose in T+6 hr (r)

Dose Rate (mr/hr)

Integrate Dose (r)

Dose in T+2 hr (r)

Dose in T+6 hr (r)

Dose Rate (mr/hr)

Integrated Dose (r)

Dose in T+2 hr (r)

Est. Release

Potential Release

Source Term Study

Est. Activity

Est. Release Rate

Highest Off Site

Dose Rate:

APPENDIX EP-203-8
EOF PHONE CHECKOFF LIST

<u>Test Prelude Phones For Dial Tone</u>	<u>Yes/No</u>
178 OSC (Light Blue Phone)	_____
163 CR & TSC/EOF (Orange)	_____
168 TSC/EOF (Ivory)	_____
153 Management (Grey)	_____
143 Corp. Spokesman (Ash)	_____
123 Field Survey (Yellow)	_____
133 BRP Tech. (White)	_____
138 BRP Rad (Green)	_____
153 SEC's Office (Brown)	_____
 <u>Test Station Phones For Dial Phone</u>	
____ SEC's Desk	_____
____ SEC's Communicator	_____
____ NRC Office	_____
____ NRC Office	_____
____ Dose Assessment Team Leader	_____
____ Dose Assessment Team	_____
____ HP&C Coordinator	_____
____ Field Data Monitoring	_____
____ State & Local Office	_____
____ PEMA	_____

___ EOF Telecopier	_____
___ EOF Telecopier	_____
___ Electrical Eng. Liaison	_____
___ Mechanical Eng. Liaison	_____
___ Procedure Support Coordinator	_____
___ INPO	_____
___ Planning Coordinator	_____
6345 EOF Liaison (Corp. Comm.)	_____
___ BRP	_____
___ Conference Room	_____
___ SEC's Office	_____
___ Emergency Preparedness	_____
___ Medical Director	_____
___ Montgomery	_____
___ Chester	_____
___ Berks	_____
___ ERFDS Terminal	_____
___ RMMS Terminal	_____

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 Dose Assessment Team Leader or Site Emergency Coordinator when activation is complete and of any problems discovered.

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PHILADELPHIA ELECTRIC COMPANY
LIMERICK GENERATING STATION
EMERGENCY PLAN IMPLEMENTING PROCEDURE

EP-210 DOSE ASSESSMENT TEAM

1.0 PURPOSE

The purpose of this procedure is to provide guidelines for the Dose Assessment Team.

2.0 RESPONSIBILITIES

2.1 The Dose Assessment Team Leader shall direct the Dose Assessment Team, and formulate any protective action recommendations.

3.0 APPENDICES

None

4.0 PREREQUISITES

None

5.0 SPECIAL EQUIPMENT

None

6.0 SYMPTOMS

6.1 An actual or potential release of radioactive material beyond the site boundary in excess of technical specifications.

7.0 ACTION LEVEL

- 7.1 The Dose Assessment Team shall be activated at the discretion of the Emergency Director.

8.0 PRECAUTIONS

None

9.0 PROCEDURE

9.1 IMMEDIATE ACTIONS

- 9.1.1 The Dose Assessment Team Leader shall:
- 9.1.1.1 WHEN THE TSC ONLY IS BEING ACTIVATED
assemble the team at the Technical Support Center.
- 9.1.1.2 WHEN THE TSC AND EOF ARE BEING ACTIVATED TOGETHER activate the EOF in accordance with EP-203 Emergency Operations Facility (EOF) Activation and assemble the team there.
- 9.1.1.3 Direct the team members to perform dose calculations with the RMMS computer or manually using the following procedures:
- EP-316 Cumulative Population Dose Calculations for Airborne Releases
- EP-318 Liquid Release Dose Calculation Method for Drinking Water
- EP-319 Fish Ingestion Pathway Dose Calculation
- EP-325 Use of Containment Radiation Monitor to Estimate Release Source Term

9.2 FOLLOW-UP ACTIONS

- 9.2.1 The Dose Assessment Team Leader shall:
- 9.2.1.1 When the Dose Assessment Team has been activated, call the Shift Technical Advisor and relieve him of performing dose calculations.

9.2.1.2 IF THE TEAM IS PRESENTLY AT THE TSC AND NOW THE EOF IS TO BE ACTIVATED, call an Alternate Dose Assessment Team Leader and direct him to do the following steps:

- A. Call in additional Dose Assessment Team members using EP-294 Dose Assessment Team Phone List.
- B. Activate the EOF in accordance with EP-203 Emergency Operations Facility (EOF) Activation.
- C. When the EOF team is ready, the team in the TSC may be relieved or may transfer to the EOF.
- D. Perform the necessary steps of this procedure.

9.2.1.3 Report results of calculations to Site Emergency Coordinator and Emergency Director. If requested by the Site Emergency Coordinator, report results to Bureau of Radiation Protection.

These results should include a comparison of actual field survey data (received from Radiation Protection Team Leader) and discussion of source terms (received from Chemistry Sampling & Analysis Team Leader).

9.2.1.4 Direct Dose Assessment Team to perform additional calculations as necessary.

9.2.1.5 Have the Status Board Keeper post calculations.

9.2.1.6 Receive results of field surveys from the Radiation Protection Team Leader and sample analysis from the Chemistry Sampling and Analysis Team Leader for use in calculations.

9.2.1.7 Use EP-317 Determination of Protective Action Recommendations to recommend protective action, if any, to the Site Emergency Coordinator or the Emergency Director for forwarding to state authorities.

10.0 REFERENCES

- 10.1 Limerick Generating Station Emergency Plan
- 10.2 NUREG 0654, Preparation and Evaluation
Rev. 1 of Radiological Emergency Response
Plans in Support of Nuclear Power Plants
- 10.3 EP-316 Cumulative Population Dose Calculations
for Airborne Releases
- 10.4 EP-317 Determination of Protective Action
Recommendations
- 10.5 EP-318 Liquid Release Dose Calculations
Method for Drinking Water
- 10.6 EP-319 Fish Ingestion Pathway Dose Calculation
- 10.7 EP-325 Use of Containment Radiation
Monitor to Estimate Release Source Team

J. M. Kist 11/14/83

PHILADELPHIA ELECTRIC COMPANY
LIMERICK GENERATING STATION
EMERGENCY PLAN IMPLEMENTING PROCEDURE

EP-220 RADIATION PROTECTION TEAM ACTIVATION

1.0 PURPOSE

The purpose of this procedure is to provide guidelines for the actions required to activate the Radiation Protection Team.

2.0 RESPONSIBILITIES

- 2.1 The shift HP Senior Technician shall assume the role of the Interim Radiation Protection Team Leader and perform the steps necessary in this procedure until relieved by the Radiation Protection Team Leader.
- 2.2 The Radiation Protection Team Leader shall relieve the Interim Radiation Protection Team Leader and perform the steps of this procedure not completed by the Interim Radiation Protection Team Leader.

3.0 APPENDICES

- 3.1 EP-220-1 Emergency Exposure Guidelines.

4.0 PREREQUISITES

None

5.0 SPECIAL EQUIPMENT

None

6.0 SYMPTOMS

None

7.0 ACTION LEVELS

- 7.1 The Radiation Protection Team shall be activated by the Emergency Director or Interim Emergency Director when necessary.

8.0 PRECAUTIONS

- 8.1 Planned radiation exposures should be limited to the administrative guide levels in Appendix EP-220-1, Emergency Exposure Guidelines.

9.0 PROCEDURE

9.1 IMMEDIATE ACTIONS

- 9.1.1 Shift HP Senior Technician shall:
- 9.1.1.1 After discussing the situation with the Emergency Director or Interim Emergency Director, assume the role of Interim Radiation Protection Team Leader.
- 9.1.1.2 Form a team from available people. Have the team members report to the Technical Support Center or a location designated by the Emergency Director.
- 9.1.1.3 Form functional groups as necessary in accordance with the following groups:
- EP-222 Field Survey Group Functions
- EP-221 Dosimetry, Bioassay and Respiratory Protection Group Actions.
- 9.1.1.4 Direct group to their assigned emergency locations and direct them to check out and ready equipment.

- 9.1.1.5 When the groups report back that they are ready to begin group assignments, inform the (Interim) Emergency Director.

9.2 FOLLOW-UP ACTIONS

THE RADIATION PROTECTION TEAM LEADER MAY RELIEVE THE INTERIM RADIATION PROTECTION TEAM LEADER AT ANY POINT IN THE PROCEDURE AND REPORT TO THE TSC.

9.2.1 Radiation Protection Team Leader shall:

- 9.2.1.1 Coordinate dispatching the survey teams under direction of the Site Emergency Coordinator or the Emergency Director. Report field survey data to the Dose Assessment Team Leader and Emergency Director, as necessary.
- 9.2.1.2 Evaluate actions of the Personnel Dosimetry, Bioassay and Respiratory Protection Group.
- 9.2.1.3 Provide Radiation Protection Team Members with periodic plant or field status changes which may affect the functions of the team.
- 9.2.1.4 Periodically evaluate the situation to determine if additional groups need to be assembled and assemble such groups.
- 9.2.1.5 Obtain additional personnel support, if necessary use EP-275 Radiation Protection Team Phone List.

10.0 REFERENCES

- 10.1 Limerick Generating Station Emergency Plan
- 10.2 NUREG 0654, Criteria for Preparation and Evaluation of Radiological Emergency Response Plans and Preparedness in Support of Nuclear Power Plants.
Rev. 1

- 10.3 EP-222 Field Survey Group Functions
- 10.4 EP-221 Dosimetry, Bioassay and Respiratory
Protection Group Actions
- 10.5 EP-275 Radiation Protection Team Phone List

APPENDIX EP 220-1
Emergency Exposure Guidelines

<u>Function</u>	<u>Projected Whole Body Dose</u>	<u>Thyroid Dose</u>	<u>Authorized By</u>
1. Life Saving and Reduction of Injury	75 rem*	375 rem	Emergency** Director
2. Operation of Equipment to Mitigate an Emergency	25 rem*	125 rem	Emergency** Director
3. Protection of Health and Safety of the Public	5 rem	25 rem	Emergency Director
4. Other Emergency Activities	10 CFR 20 limits	10 CFR 20 limits	Emergency Director
5. Re-entry/Recovery Activities	Station Administra- tive Guide- lines	Station Adminis- trative Guide- lines	N/A

*Reference: EPA-520/1-75-001 Table 2.1

** Such exposure shall be on a voluntary basis

[Signature] 11/1/83

PHILADELPHIA ELECTRIC COMPANY
LIMERICK GENERATING STATION
EMERGENCY PLAN IMPLEMENTING PROCEDURE

EP-222 FIELD SURVEY GROUP

1.0 PURPOSE

The purpose of this procedure is to provide guidelines for the actions of the Field Survey Group.

2.0 RESPONSIBILITIES

- 2.1 The Field Survey Group leader shall be responsible to direct the field survey squads by performing the necessary steps in this procedure.
- 2.2 The Field Survey Squad members shall be responsible to conduct field surveys as directed by the Field Survey Group leader.

3.0 APPENDICES

- 3.1 EP-222-1, Emergency Exposure Guidelines

4.0 PREREQUISITES

None

5.0 SPECIAL EQUIPMENT

- 5.1 Radio
- 5.2 Field survey kits
- 5.3 Vehicle

6.0 SYMPTOMS

- 6.1 An actual or potential release of radioactive material beyond the site boundary in excess of technical specifications.

7.0 ACTION LEVEL

- 7.1 The Field Survey Group shall be activated by the Radiation Protection Team leader, when necessary.

8.0 PRECAUTIONS

- 8.1 The group members exposure should be limited to the guidelines in EP-222-1, Emergency Exposure Guidelines.

9.0 PROCEDURE

9.1 Immediate Actions

- 9.1.1 The Field Survey Group leader shall:

- 9.1.1.1 Report to the Technical Support Center (TSC).

- 9.1.1.2 Discuss the situation with the Radiation Protection Team leader. This discussion should include: the release rate of radioactive material, wind direction and possible wind shifts.

- 9.1.1.3 Form the necessary number of field survey squads from available personnel. A squad consists of a Health Physics Technician and a driver.

- 9.1.1.4 Give each squad a radio and direct them to take the necessary field survey equipment with them. The radios are located in the Communication Room in the Technical Support Center and the field survey kits are located in the storage closets in the Personnel Entry Area of the Technical Support Center.

- 9.1.1.5 Discuss the situation with each squad and direct them to specific locations in the field.

9.1.2 Field Survey Squad members shall:

- 9.1.2.1 Report to the Field Survey Group leader at the Technical Support Center.
- 9.1.2.2 Obtain a field survey kit. Be sure that a map and radio is available.
- 9.1.2.3 Inventory the kit and check equipment for operability.
- 9.1.2.4 Card or sign out (if the security computer is not available) of the Technical Support Center, but keep dosimetry. Ensure that the direct reading dosimeters are zeroed.
- 9.1.2.5 Contact Security for the keys to a vehicle.

9.2 Follow-up Actions


9.2.1 The Field Survey Group leader shall:

- 9.2.1.1 Maintain contact with the field survey squads and monitor squad members accumulated exposures.
- 9.2.1.2 Report results to the Radiation Protection Team leader and Field Survey Status Board keeper.
- 9.2.1.3 Provide the field survey squads with status updates as to release rate, wind direction, etc. Direct the field survey squads to other locations as necessary.
- 9.2.1.4 Inform the Radiation Protection Team leader for the need of additional personnel, if necessary.

9.2.2 Field Survey Group members shall:

- 9.2.2.1 Conduct surveys at the sites specified by the Field Survey Group leader in accordance with Health Physics Procedures.

When conducting field surveys from inside a vehicle, readings must be taken with the probe outside the vehicle.

- 9.2.2.2 Report survey results to the Field Survey Group leader by radio. If the radio does not function properly, locate a telephone and report survey information. Use 327-1200 and ask for the Field Survey Group Leader on extension 
- 9.2.2.3 Await further instructions from the Field Survey Group leader.
- 9.2.2.4 Before returning the vehicle, survey vehicle for contamination. If contamination is found, inform the Personnel Safety Team leader and take the vehicle to the Vehicle Decontamination Facility located at the batch plant.

10.0 REFERENCES

- 10.1 Limerick Generating Station Emergency Plan
- 10.2 NUREG 0654, Criteria for Preparation and Evaluation of Radiological Emergency Response Plans and Preparedness in Support of Nuclear Power Plants.
Rev. 1

APPENDIX EP-222-1
Emergency Exposure Guidelines

<u>Function</u>	<u>Projected Whole Body Dose</u>	<u>Thyroid Dose</u>	<u>Authorized By</u>
1. Life Saving and Reduction of Injury	75 rem*	375 rem	Emergency** Director
2. Operation of Equipment to Mitigate an Emergency	25 rem*	125 rem	Emergency** Director
3. Protection of Health and Safety of the Public	5 rem	25 rem	Emergency Director
4. Other Emergency Activities	10 CFR 20 limits	10 CFR 20 limits	Emergency Director
5. Re-entry/Recovery Activities	Station Administra- tive Guide- lines	Station Adminis- trative Guide- lines	N/A

* Reference: EPA-520/1-75-001 Table 2.1

** Such exposure shall be on a voluntary basis

Handwritten signature and date: 11/11/53

PHILADELPHIA ELECTRIC COMPANY
LIMERICK GENERATING STATION
EMERGENCY PLAN IMPLEMENTING PROCEDURE

EP-230 CHEMISTRY SAMPLING AND ANALYSIS TEAM ACTIVATION

1.0 PURPOSE

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

2.0 RESPONSIBILITIES

- 2.1 The Emergency Director shall direct the Chemistry Sampling and Analysis Team Leader to activate a team, when required.
- 2.2 The Chemistry Sampling and Analysis Team Leader shall appoint a group leader and perform the steps necessary in this procedure.
- 2.3 The Chemistry Sampling and Analysis Group Leader shall direct the group members by performing the steps necessary in this procedure.

3.0 APPENDICES

- 3.1 EP-230-1 Emergency Exposure Guidelines
- 3.2 EP-230-2 Chemistry Sampling and Analysis COL
- 3.3 EP-230-3 Offsite Post Accident Sampling Analysis

4.0 PREREQUISITES

None

5.0 SPECIAL EQUIPMENT

None

6.0 SYMPTOMS

None

7.0 ACTION LEVEL

- 7.1 The Chemistry Sampling and Analysis Group will be activated at the discretion of the Emergency Director.

8.0 PRECAUTIONS

- 8.1 Planned radiation exposures should be limited to the administrative guide levels in Appendix EP-230-1 Emergency Exposure Guidelines.
- 8.2 Continuous coverage by the Health Physics Technician may substitute for the Radiation Work Permit.

9.0 PROCEDURE

9.1 IMMEDIATE ACTIONS

- 9.1.1 The Emergency Director shall:
- 9.1.1.1 Direct the Chemistry Sampling and Analysis Team Leader to collect samples, as necessary, and analyze the samples or use offsite support groups for the analyses.
- 9.1.2 Chemistry Sampling and Analysis Team Leader shall:
- 9.1.2.1 Report to the Technical Support Center, if activated or other location to activate the Chemistry Sampling and Analysis Team.
- 9.1.2.2 Appoint a group leader and have the group leader assemble a group. The Chemistry Lab, if habitable, should be used.
- 9.1.2.3 Discuss the type and sample frequency needed with the group leader. This discussion should also include a status of plant conditions and hazards.

9.1.3 Chemistry Sampling and Analysis Group Leader shall:

9.1.3.1 Assemble the Chemistry Sampling and Analysis Group. Ensure that a Health Physics Technician or HP Qualified Chemistry Technician is available.

9.1.3.2 Direct the HP Technician to determine habitability of the Chemistry Lab. Use the area in accordance with EP-330 Emergency Response Facility Habitability.

IF THE CHEMISTRY LAB HABITABILITY IS DEGRADED, THE TEAM SHALL ASSEMBLE AT ANOTHER LOCATION SUCH AS THE TSC. TIME SPENT IN THE LAB ANALYZING SAMPLES SHOULD BE MINIMIZED AND PROTECTIVE MEASURES SHALL BE EMPLOYED. CONSIDERATION SHOULD BE GIVEN TO SENDING THE SAMPLES OFFSITE FOR ANALYSIS.

9.1.3.3 Direct the monitoring and sampling of release points, air monitors, and process monitors as required and in accordance with ALARA.

9.1.4 Chemistry Sampling and Analysis Group Members shall:

9.1.4.1 Assemble the necessary equipment needed to obtain and analyze samples. Label all sample containers before sampling. Use Appendix EP-230-2 as guidance to follow the progress of samples drawn and analyzed onsite.

9.1.4.2 Sample primary coolant and drywell atmosphere as necessary with the following procedures:

EP-231 Operation of Post Accident Sampling Station Following Accident Conditions

EP-232 Obtaining Drywell Gas Samples From Containment Atmosphere Control System

EP-233 Retrieving And Changing Sample Filters And Cartridges From The Drywell Radiation Monitor

EP-234 Obtaining Drywell Gas Samples From
the Drywell Radiation Monitor
Sampling Station

EP-235 Obtaining Reactor Water Samples From
Sample Sinks Following Accident
Conditions

9.1.4.3 In the event of a large radioactive liquid
spill with potential for discharge to the
Schuylkill River, obtain samples of the
river water in accordance with:

EP-236 Obtaining Blowdown Discharge Water
Samples Following Radioactive Liquid
Releases Following Accident
Conditions

9.1.4.4 Use the following procedures to obtain
samples, as necessary, from the various
sample points.

North and South Stack

EP-237 Obtaining the Iodine and Particulate
Samples from The North and South
Stack following Accident Conditions

Liquid Radwaste

EP-238 Obtaining Liquid Radwaste Samples
from the Radwaste Sample Sink
Following Accident Conditions

Off Gas

EP-240 Off Gas Samples from the Off Gas
Hydrogen Analyzer Following Accident
Conditions

RX Building or Suppression Pool

EP-231 Operation of Post Accident Sampling
Station

9.1.4.5 Use the following procedures for the
preparation and analysis of highly
radioactive samples.

EP-241 Sample Preparation and Chemical
Analysis of Highly Radioactive Liquid
Samples

EP-242 Sample Preparation and Analysis of
Highly Radioactive Particulate
Filters and Iodine Cartridges

EP-243 Sample Preparation and Analysis of
Highly Radioactive Gas Samples

- 9.1.4.6 Attach data sheets and analysis reports to Appendix EP-230-2 Chem Sampling & Analysis COL for each sample taken. Give this information to the Chem Sampling and Analysis Group Leader.

9.2 FOLLOW-UP ACTIONS

- 9.2.1 The Chemistry Sampling and Analysis Team Leader shall:
 - 9.2.1.1 Report the results of these analyses to the Emergency Director, the Radiation Protection Team Leader and Dose Assessment Team Leader.
 - 9.2.1.2 Provide group members with periodic plant status changes including significant radiation exposure and radioactive contamination problems which may affect the functions of the team.
 - 9.2.1.3 If necessary, use the post accident sampling analysis capabilities of Babcox and Wilcox by referring to Appendix EP-230-3 Offsite Post Accident Sampling Analysis for proper notification.
 - 9.2.1.4 Provide additional personnel support, if necessary, using EP-292 Chemistry Sampling and Analysis Team Phone List.
- 9.2.2. Chemistry Sampling and Analysis Group Leader shall:
 - 9.2.2.1 Report results of samples and analysis to the Chemistry Sampling and Analysis Team Leader.

10.0 REFERENCES

- 10.1 Limerick Generating Station Emergency Plan

- 10.2 NUREG 0654, Preparation and Evaluation of Radiological
Rev. 1 Emergency Response Plans and Preparedness
In Support of Nuclear Power Plants
- 10.3 EP-231 Operation of Post Accident Sampling Station
- 10.4 EP-232 Obtaining Drywell Gas Samples From
the Containment Atmosphere Control System
- 10.5 EP-233 Retrieving and Changing Sample Filters
and Cartridges from the Drywell Radiation Monitor
- 10.6 EP-234 Obtaining Drywell Gas Samples from Drywell
Radiation Monitor Sampling Station
- 10.7 EP-235 Obtaining Reactor Water Samples from Sample
Sinks Following Accident Conditions
- 10.8 EP-236 Obtaining Blowdown Line Samples Following
Radioactive Liquid Releases Following Accident
Conditions
- 10.9 EP-237 Obtaining the Iodine and Particulate Samples
from the North and South Stack following Accident
Conditions
- 10.10 EP-238 Obtaining Liquid Radwaste Samples from the
Radwaste Sample Sink Following Accident Conditions
- 10.11 EP-240 Off Gas Samples from the Off Gas Hydrogen
Analyzer following Accident Conditions
- 10.12 EP-241 Sample Preparation and Chemical Analysis
of Highly Radioactive Liquid Samples
- 10.13 EP-242 Sample Preparation and Analysis of Highly
Radioactive Particulate Filters and Iodine
Cartridges
- 10.14 EP-243 Sample Preparation and Analysis of
Highly Radioactive Gas Samples
- 10.15 EP-292 Chemistry Sampling and Analysis Team Phone
List

APPENDIX EP-230-1
Emergency Exposure Guidelines

<u>Function</u>	<u>Projected Whole Body Dose</u>	<u>Thyroid Dose</u>	<u>Authorized By</u>
1. Life Saving and Reduction of Injury	75 rem*	375 rem	Emergency** Director
2. Operation of Equipment to Mitigate an Emergency	25 rem*	125 rem	Emergency** Director
3. Protection of Health and Safety of the Public	5 rem	25 rem	Emergency Director
4. Other Emergency Activities	10 CFR 20 limits	10 CFR 20 limits	Emergency Director
5. Re-entry/Recovery Activities	Station Administra- tive Guide- lines	Station Adminis- trative Guide- lines	N/A

* Reference: EPA-520/1-75-001 Table 2.1

** Such exposure shall be on a voluntary basis

APPENDIX EP-230-2
CHEM SAMPLING & ANALYSIS COL

TEAM ACTIONS

1. SAMPLE TYPE: _____ LOCATION: _____
DATE: _____ TIME: _____
2. ANALYSIS TO BE PERFORMED (LIST)

3. PROCEDURES NEEDED (LIST)	<u>REVIEWED</u>	<u>PREREQUISITES</u>	<u>SPECIAL EQUIPMENT</u>
_____	_____	_____	_____
_____	_____	_____	_____
_____	_____	_____	_____

SAMPLE GROUP ACTIONS

INITIALS

1. TRAVEL ROUTE PLANNED _____
2. HP COVERAGE AVAILABLE _____
3. PROTECTIVE EQUIPMENT & DOSIMETRY ISSUED _____
4. SAMPLE SURVEY BY HP _____
5. SAMPLE TRANSPORTED TO LAB _____

ANALYSIS GROUP ACTIONS

INITIALS

1. LAB READY TO RECEIVE SAMPLE _____
2. HP COVERAGE AVAILABLE IN LAB _____
3. PROTECTIVE EQUIPMENT & DOSIMETRY ISSUED _____
4. SAMPLE RECEIVED IN LAB _____
5. DOSE RATE SURVEY DONE IN LAB AFTER SAMPLE RECEIPT _____
6. RESULTS FORWARDED TO TEAM LEADER _____

APPENDIX EP-230-3
Offsite Post Accident Sampling Analysis
Babcox and Wilcox Lynchburg Research Center

Message:

This is _____ (Name) _____ representing the Chemistry Sampling & Analysis Team of Limerick Generating Station. This is a request to provide post accident sample analysis at the Lynchburg Research Center. All inquiries should be directed to _____ (Name) _____ at the following phone number _____. The following information is known concerning the samples:

Unit _____
Number of samples _____
Estimated shipping time _____
Method of transportation (air or land) _____
Name of carrier _____

Sample	1	2	3	4
--------	---	---	---	---

Type (liquid, gaseous, cartridge)

Measured Radiation Levels

- surface
- 3 feet

Remarks:

Notifications:

Emergency Control Officer

J. P. Doran

Alternate Emergency Control Officer

A. F. Olsen

Work

Home



[Signature] 11/11/83

PHILADELPHIA ELECTRIC COMPANY
LIMERICK GENERATING STATION
EMERGENCY PLAN IMPLEMENTING PROCEDURE

EP-250 PERSONNEL SAFETY TEAM ACTIVATION

1.0 PURPOSE

The purpose of this procedure is to provide guidelines for the actions required to activate and assemble the Personnel Safety Team.

2.0 RESPONSIBILITIES

- 2.1 A Shift Health Physics Technician shall assume the role of the Interim Personnel Safety Team Leader and perform the necessary steps in this procedure.
- 2.2 The Personnel Safety Team Leader shall relieve the Interim Personnel Safety Team Leader and perform the necessary steps in this procedure.

3.0 APPENDICES

- 3.1 EP-250-1 Emergency Exposure Guidelines

4.0 PREREQUISITES

None

5.0 SPECIAL EQUIPMENT

None

6.0 SYMPTOMS

None

7.0 ACTION LEVEL

- 7.1 The Emergency Director or Interim Emergency Director shall activate the Personnel Safety Team at his discretion.

8.0 PRECAUTIONS

- 8.1 Planned radiation exposures should be limited to the administrative guide levels in Appendix EP-250-1 Emergency Exposure Guidelines.

9.0 PROCEDURE

9.1 IMMEDIATE ACTIONS

- 9.1.1 A Shift HP Technician shall:
- 9.1.1.1 Assume the role of the Interim Personnel Safety Leader and discuss the situation with the Emergency Director or Interim Emergency Director.
- 9.1.1.2 Assign available personnel from the Operations Support Center (OSC) or Control Room to the required Personnel Safety Team Groups to carry out the following procedures, as necessary.
- EP-251 Plant Survey Group Functions
- EP-252 Search and Rescue/First Aid
- EP-254 Vehicle and Evacuee Control Group
- EP-255 Vehicle Decontamination Procedure
- 9.1.1.3 Direct the group leaders to report the status and results of group activities via radios, telephone or plant page system.

9.2 FOLLOW-UP ACTIONS

- 9.2.1 Personnel Safety Team Leader shall:
 - 9.2.1.1 Report to the Technical Support Center and relieve the Interim Personnel Safety Team Leader.
 - 9.2.1.2 Coordinate with Personnel Safety Team to provide Emergency Director with site radiological data/personnel injury/contamination status and site evacuation status.
 - 9.2.1.3 Ensure Personnel Safety Team members are available at assembly areas (OSC on 269, Elev. Turbine Enclosure or designated evacuation assembly area). Use EP-277 Personnel Safety Team Phone List to call additional personnel, if necessary.
 - 9.2.1.4 Assign additional team members to functional groups as necessary per step 9.1.1.2 of this procedure.
 - 9.2.1.5 Designate group leaders for the functional groups formed.
 - 9.2.1.6 Maintain communications via any available means with the groups after they have been sent to perform their assigned tasks.

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-251 Plant Survey Group Functions
- 10.4 EP-252 Search and Rescue/First Aid
- 10.5 EP-254 Vehicle and Evacuee Control Group
- 10.6 EP-255 Vehicle Decontamination Procedure
- 10.7 EP-277 Personnel Safety Team Phone List

APPENDIX EP-250-1
Emergency Exposure Guidelines

<u>Function</u>	<u>Projected Whole Body Dose</u>	<u>Thyroid Dose</u>	<u>Authorized By</u>
1. Life Saving and Reduction of Injury	75 rem*	375 rem	Emergency** Director
2. Operation of Equipment to Mitigate an Emergency	25 rem*	125 rem	Emergency** Director
3. Protection of Health and Safety of the Public	5 rem	25 rem	Emergency Director
4. Other Emergency Activities	10 CFR 20 limits	10 CFR 20 limits	Emergency Director
5. Re-entry/Recovery Activities	Station Administra- tive Guide- lines	Station Adminis- trative Guide- lines	N/A

* Reference: EPA-520/1-75-001 Table 2.1

** Such exposure shall be on a voluntary basis

John L. Litch 11/1/83

PHILADELPHIA ELECTRIC COMPANY
LIMERICK GENERATING STATION
EMERGENCY PLAN IMPLEMENTING PROCEDURE

EP-261 DAMAGE REPAIR GROUP

1.0 PURPOSE

The purpose of this procedure is to provide guidelines for the actions of the Damage Repair Group.

2.0 RESPONSIBILITIES

- 2.1 The Shift Supervisor shall assume the role of the Interim Fire and Damage Team Leader when directed by the Emergency Director or Interim Emergency Director and perform the necessary steps in this procedure.
- 2.2 The maintenance shift assistant foreman shall assume the role of the Damage Repair Group Leader when directed and perform the necessary steps in this procedure.
- 2.3 The Fire and Damage Team Leader shall relieve the Interim Fire and Damage Team Leader and perform the steps necessary in this procedure.

3.0 APPENDICES

- 3.1 EP-261-1 Emergency Exposure Guidelines

4.0 PREREQUISITES

None

5.0 SPECIAL EQUIPMENT

None

6.0 SYMPTOMS

None

7.0 ACTION LEVEL

- 7.1 The Damage Repair Group shall be activated whenever the (Interim) Emergency Director or Fire and Damage Team Leader deems their services necessary.

8.0 PRECAUTIONS

- 8.1 Planned radiation exposures should be limited to the administrative guide levels in Appendix EP-261-1 Emergency Exposure Guidelines.
- 8.2 Continuous coverage by Health Physics Technician may substitute for the Radiation Work Permit.

9.0 PROCEDURE

9.1 IMMEDIATE ACTIONS

- 9.1.1 The Shift Supervisor shall:
- 9.1.1.1 Assume the role of Interim Fire and Damage Team Leader.
- 9.1.1.2 Contact the maintenance shift assistant foreman. Explain the situation and direct him to assemble a Damage Repair Group.
- 9.1.2 Maintenance Shift Assistant Foreman shall:
- 9.1.2.1 Assume the role of the Damage Repair Group Leader.
- 9.1.2.2 Assemble the Damage Repair Group. Contact the HP-OSC Coordinator for an HP Technician.
- 9.1.2.3 Explain the situation and what has to be done, to the group.
- 9.1.2.4 Obtain necessary keys for the group.

- 9.1.2.5 Review applicable maintenance procedures and advise group members.
- 9.1.2.6 Provide information to the group on equipment and supplies.
- 9.1.2.7 Request system blocking as needed from the OSC Coordinator.
- 9.1.2.8 If necessary, request additional personnel or equipment from the Fire and Damage Team Leader.
- 9.1.2.9 Periodically update the Fire and Damage Team Leader of the status of the repair work.
- 9.1.3 Damage Repair Group Members shall:
 - 9.1.3.1 Report to the area designated by the team leader.
 - 9.1.3.2 Assemble necessary equipment (i.e., tools, parts, etc. for the pending operations) from locations on or off-site designated by the Damage Repair Group Leader. The Operations Support Center (on 269' elevation Turbine Enclosure) should be contacted for radiation monitoring equipment needed to support the repair effort.
 - 9.1.3.3 Follow the directions of the group leader.
 - 9.1.3.4 Keep the Damage Repair Group Leader updated as to current status of emergency repair efforts.
 - 9.1.3.5 The HP Technician should obtain the necessary equipment from the OSC. When the group is conducting operations, the HP Technician shall advise group members of stay times based on current radiological conditions.

9.2 FOLLOW-UP ACTIONS

- 9.2.1 Interim Fire and Damage Team Leader shall:
 - 9.2.1.1 Periodically update the (Interim) Emergency Director of the status of the repair work.

- 9.2.2 Fire and Damage Team Leader shall:
 - 9.2.2.1 Report to the Technical Support Center or as directed by the Emergency Director.
 - 9.2.2.2 Obtain an update of the situation and relieve the Interim Fire and Damage Leader.
 - 9.2.2.3 Direct and coordinate emergency repair operations as necessary.
 - 9.2.2.4 Provide team members with periodic plant status changes including significant radiation and contamination problems which may affect the functions of the team.
 - 9.2.2.5 Periodically update the Emergency Director of the status of the repair work. Ensure that the plant status board in the TSC is updated as necessary.
 - 9.2.2.6 Provide additional personnel support if necessary. Use EP-276 Fire And Damage Team Phone List for additional qualified maintenance personnel.

10.0 REFERENCES

- 10.1 Limerick Generating Station Emergency Plan
- 10.2 EP-401 Entry for Emergency Repair, Operations, and Search and Rescue.
- 10.3 NUREG 0654, Criteria for Preparation and Evaluation of Radiological Emergency Response Plans and Preparedness in Support of Nuclear Power Plants.
Rev. 1
- 10.4 EP-276 Fire And Damage Team Phone List

APPENDIX EP-261-1
Emergency Exposure Guidelines

<u>Function</u>	<u>Projected Whole Body Dose</u>	<u>Thyroid Dose</u>	<u>Authorized By</u>
1. Life Saving and Reduction of Injury	5 rem*	375 rem	Emergency** Director
2. Operation of Equipment to Mitigate an Emergency	25 rem*	125 rem	Emergency** Director
3. Protection of Health and Safety of the Public	5 rem	25 rem	Emergency Director
4. Other Emergency Activities	10 CFR 20 limits	10 CFR 20 limits	Emergency Director
5. Re-entry/Recovery Activities	Station Administra- tive Guide- lines	Station Adminis- trative Guide- lines	N/A

* Reference: EPA-520/1-75-001 Table 2.1

** Such exposure shall be on a voluntary basis

J. M. Lutz 11/1/83

PHILADELPHIA ELECTRIC COMPANY
LIMERICK GENERATING STATION
EMERGENCY PLAN IMPLEMENTING PROCEDURE

EP-301 OPERATING THE EVACUATION ALARM AND RIVER WARNING SYSTEM

1.0 PURPOSE

The purpose of this procedure is to describe how to operate the Evacuation Alarm and River Warning System.

2.0 RESPONSIBILITIES

2.1 Shift personnel calling site evacuation shall perform this procedure.

3.0 APPENDICES

None

4.0 PREREQUISITES

4.1 440v mcc 114-B-R-C-17 is energized for River Warning System

4.2 AC power 13L circuit 35 is energized for River Warning System

4.3 125v DC 1PP01-07 and 1PP04-05 are energized

5.0 SPECIAL EQUIPMENT

None

6.0 SYMPTOMS

None

7.0 ACTION LEVEL

- 7.1 A site evacuation is ordered by the Emergency Director or Interim Emergency Director.
- 7.2 A test of the system is authorized.

8.0 PRECAUTIONS

None

9.0 PROCEDURE

9.1 TO ACTIVATE THE EVACUATION ALARM:

- 9.1.1 Set the "SIREN TONE GENERATOR" tone selector switch located on MCR Panel 10C650 to one of desired positions:
 - 9.1.1.1 SIREN (harmonic tone) (Preferred)
 - 9.1.1.2 PULSE (high pitched pulses) (Alternate)
 - 9.1.1.3 STEADY (steady tone) (Alternate)
 - 9.1.2 Set the "EVACUATION ALARM AND RIVER WARNING SELECT" switch located on MCR Panel 10C650 to one of the desired positions and then push the selector switch in.
 - 9.1.2.1 CONT 1 - Sounds alarm in Unit 1 primary containment only
 - 9.1.2.1 CONT 2 - Sounds alarm in Unit 2 primary containment only
 - 9.1.2.3 PLANT ALARM - Sounds alarm in entire plant
- EVACUATION ALARM OVERRIDES THE PA SYSTEM.
- 9.1.3 Sound the alarm for approximately 30 seconds.
 - 9.1.4 Return the "EVACUATION ALARM AND RIVER WARNING SELECT" switch located on MCR Panel 10C650 to the "OFF" position to silence the alarm.

9.2 TO ACTIVATE THE RIVER WARNING SYSTEM:

- 9.2.1 Set the "EVACUATION ALARM AND RIVER WARNING SELECT" switch located on MCR Panel 10C650 to one of the desired positions and push the selector switch in.
 - 9.2.1.1 MIKE - To broadcast live, depress the "RIVER BROADCAST MICROPHONE" pushbutton and proceed to give message.
 - 9.2.1.2 TAPE - To broadcast pre-recorded message automatically.
- 9.2.2 Verify that the message is being broadcasted by observing response on the "RIVER BROADCAST SPEAKER VOLUME MONITOR" located on MCR Panel 10C650.
- 9.2.3 Return the "EVACUATION ALARM AND RIVER WARNING SELECT" switch located on the MCR Panel 10C650 to the "OFF" position to end the broadcast.

10.0 REFERENCES

- 10.1 Limerick Generating Station Emergency Plan
- 10.2 FSAR Section 9.5.2
- 10.3 E-1364 Wiring/Connection Diagram
Rev. 3 Evacuation Alarm and River Warning Systems

11/11/83

PHILADELPHIA ELECTRIC COMPANY
LIMERICK GENERATING STATION
EMERGENCY PLAN IMPLEMENTING PROCEDURE

EP-303 LOCAL EVACUATION

1.0 PURPOSE

The purpose of this procedure is to provide the steps necessary to be taken by site personnel in the event that a local evacuation is required due to a localized uncontrolled hazard.

2.0 RESPONSIBILITIES

2.1 Personnel in an affected area requiring local evacuation shall evacuate the area and notify the control room.

2.2 Shift Supervision shall announce the evacuation and initiate cleanup/recovery of a local area by performing the necessary steps in this procedure.

3.0 APPENDICES

None

4.0 PREREQUISITES

None

5.0 SPECIAL EQUIPMENT

None

6.0 SYMPTOMS

- 6.1 An alarm condition from a local area radiation monitor or continuous air monitor.
- 6.2 Observation of a localized, uncontrolled or unexpected release, leakage or spill of radioactive material or toxic agent which represents a hazard to personnel in a local area.
- 6.3 Other localized hazard such as a room flood, fire or smoke.

7.0 ACTION LEVEL

This procedure shall be implemented by shift supervision when the symptoms in section 6.0 of this procedure occur. This procedure is for localized areas only, that is, hazards contained in a room or single elevation within an enclosure. This procedure may not require action under EP-101 Classification of Emergencies.

8.0 PRECAUTIONS

None

9.0 PROCEDURE

9.1 Immediate Actions

- 9.1.1 Personnel in the affected area not directly involved in controlling the hazard shall evacuate to a safe area. Notify the control room of the type and location of the hazard.
- 9.1.2 Shift Supervision shall:
 - 9.1.2.1 Upon receipt of information of a localized hazard or from control room indications, make the following announcement over the P.A. system:

"This (is) (is not) a drill. This (is) (is not) a drill. All personnel evacuate the (location of hazard) and assemble at (location of assembly area). This (is) (is not) a drill. This (is) (is not) a drill."

- 9.1.2.2 Perform actions that shall contain the hazard in a localized area.

9.2 Follow-Up Actions

- 9.2.1 Shift Supervision shall:
 - 9.2.1.1 Direct health physics in the case of radiation hazard or chemistry in the case of a toxic reagent hazard to:
 - A. Determine the extent of the hazard.
 - B. Post and limit access to the area as required.
 - C. Ensure that all personnel have left the hazard area.
 - D. Report back to shift supervision on status.
 - 9.2.1.2 Take actions necessary to terminate or cleanup the hazard, if needed refer to the Preparedness Prevention and Contingency Plan.
 - 9.2.1.3 Log the problem and notify the Station Superintendent within an appropriate time frame.
 - 9.2.1.4 If the problem cannot be contained, direct the evacuation of other areas or the site in accordance with the following procedures.

EP-304 Partial Plant Evacuation
EP-305 Site Evacuation

10.0 REFERENCES

- 10.1 Limerick Generating Station Emergency Plan
- 10.2 EP-304 Partial Plant Evacuation
- 10.3 EP-305 Site Evacuation
- 10.4 Limerick Generating Station Preparedness Prevention and Contingency Plan.



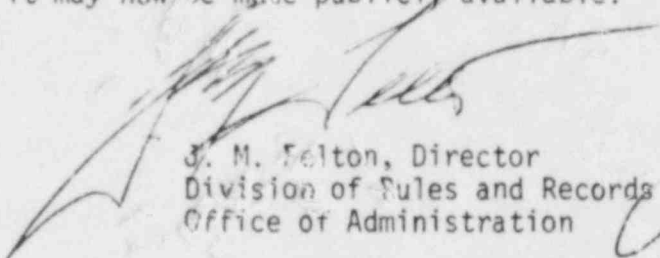
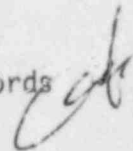
UNITED STATES
NUCLEAR REGULATORY COMMISSION
WASHINGTON, D. C. 20555

March 23, 1984

50-352/353 Limerick

MEMORANDUM FOR: Chief, Document Management Branch, TIDC
FROM: Director, Division of Rules and Records, ADM
SUBJECT: REVIEW OF UTILITY EMERGENCY PLAN DOCUMENTATION

The Division of Rules and Records has reviewed the attached document and has determined that it may now be made publicly available.


J. M. Felton, Director
Division of Rules and Records
Office of Administration 

Attachment: As stated

PHILADELPHIA ELECTRIC COMPANY

2301 MARKET STREET

P.O. BOX 8699

PHILADELPHIA, PA. 19101

SHIELDS L. DALTROFF
VICE PRESIDENT
ELECTRIC PRODUCTION

(215) 841-5001

November 30, 1983

Re: Docket Nos. 50-352
50-353

Mr. A. Schwencer, Chief
Licensing Branch No. 2
Division of Licensing
U.S. Nuclear Regulatory Commission
Washington, D.C. 20555

Dear Mr. Schwencer:

Enclosed are two copies of Limerick Generating Station
Emergency Plan Implementing Procedures. This procedure is
submitted per regulations in 10 CFR 50, Appendix E, Section V.

The procedures being submitted are the following:

EP-201, Rev. 0	EP-222, Rev. 0
EP-202, Rev. 0	EP-230, Rev. 0
EP-203, Rev. 0	EP-250, Rev. 0
EP-210, Rev. 0	EP-261, Rev. 0
EP-220, Rev. 0	EP-301, Rev. 0
	EP-303, Rev. 0

Pursuant to Section 2.790 of the Commission's
regulations, it is hereby requested that the telephone numbers
and addresses listed in procedures EP-201, EP-203, EP-222, EP-230
Rev. 0 be withheld from public disclosure. An affidavit setting
forth the grounds in support of this request is attached hereto.

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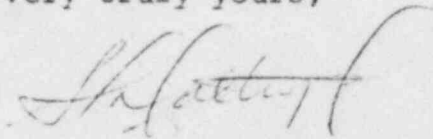
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Mr. A. Schwencer

Page 2

Two copies have been sent under separate cover to the Document Control Desk.

Very truly yours,

A handwritten signature in cursive script, appearing to read "J. H. Lattin".

Enclosure

cc: Document Control Desk
U.S. Nuclear Regulatory Commission
Washington, DC 20555

Site Inspector - Limerick Generating Station

cc: Judge Lawrence Brenner
Judge Peter A. Morris
Judge Richard F. Cole
Troy B. Conner, Jr., Esq.
Ann P. Hodgdon, Esq.
Mr. Frank R. Romano
Mr. Robert L. Anthony
Mr. Marvin I. Lewis
Ms. Phyllis Zitzer
Charles W. Elliott, Esq.
Zori G. Ferkin, Esq.
Mr. Thomas Gerusky
Director, Pennsylvania Emergency Management Agency
Mr. Steven P. Hershey
Angus Love, Esq.
Mr. Joseph H. White, III
David Wersan, Esq.
Robert J. Sugarman, Esq.
Martha W. Bush, Esq.
Spence W. Perry, Esq.
Jay M. Gutierrez, Esq.
Atomic Safety and Licensing Appeal Board
Atomic Safety and Licensing Board Panel
Docket and Service Section

COMMONWEALTH OF PENNSYLVANIA :

: SS.

COUNTY OF PHILADELPHIA :

S. L. Daltroff, being first duly sworn, deposes and states as follows:

1. He is Vice President of Philadelphia Electric Company (hereinafter referred to as the "Company"); he is authorized to execute this Affidavit on behalf of the Company; and he has reviewed:

EP-201, Rev. 0	EP-222, Rev. 0
EP 203, Rev. 0	EP-230, Rev. 0

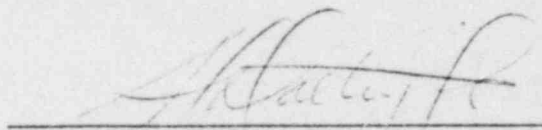
(hereinafter referred to as "the Documents"), and knows the contents thereof.

2. The part of the Documents which are sought to be withheld from public disclosure is the listing of the home telephone numbers and home addresses of employees of the Company, direct-line work telephone numbers of employees of the Company which are not listed in public telephone directories, and home and work numbers of emergency response support personnel and organizations.

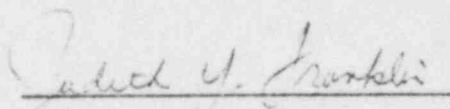
3. To the best of his knowledge, information and belief, the telephone numbers and addresses set forth in the

Documents have been treated as confidential information and have been withheld from public disclosure by the Company.

4. The home telephone numbers and home addresses in the Documents should be considered by the Nuclear Regulatory Commission as confidential and proprietary information and be withheld from public disclosure on the grounds that disclosure of the home telephone numbers and home addresses of the employees of the Company and emergency support personnel could constitute an unwarranted invasion of the personal privacy of the individuals involved, disclosure of the work telephone numbers of the Company's employees and of the emergency response personnel and organizations could adversely affect the capability of prompt notification in the event of an emergency; such disclosure is not required in the public interest; and such disclosure could adversely affect the interests of the Company and its ability to effectively implement the notification requirements of the Emergency Plan Procedures.



Subscribed and sworn to
before me this 23rd day
of November, 1983



Notary Public
JUDITH Y. FRANKLIN
Notary Public, Phila., Phila. Co.
My Commission Expires July 28, 1987