

LIMERICK GENERATING STATION
EMERGENCY PLAN PROCEDURE INDEX

PROCEDURE NUMBER	REV. NO.	TITLE	DATE SIGNED BY SUPER.	DATE OF LAST PERIODIC REVIEW
EP-101	4	Classification of Emergencies	03/25/85	
EP-102	8	Unusual Event Response	03/23/85	
EP-103	9	Alert Response	03/28/85	
EP-104	9	Site Emergency Response	03/28/85	
EP-105	9	General Emergency Response	03/28/85	
EP-106	4	Written Summary Notification	04/01/85	
EP-110	6	Personnel Assembly and Accountability	03/14/85	
EP-120	3	Site Emergency Coordinator	04/01/85	
EP-201	4	Technical Support Center (TSC) Activation	03/29/85	03/29/85
EP-202	3	Operations Support Center (OSC) Activation	12/12/84	
EP-203	5	Emergency Operations Facility (EOF) Activation	04/01/85	04/01/85
EP-208	4	Security Team	12/12/84	
EP-210	3	Dose Assessment Team	12/12/84	
EP-211	2	Field Survey Group	03/25/85	
EP-220		CANCELLED		
EP-221		CANCELLED		
EP-222		CANCELLED		
EP-230	5	Chemistry Sampling and Analysis Team	03/14/85	
EP-231	8	Operation of Post- Accident Sampling Systems (PASS)	04/18/85	
EP-232		CANCELLED		

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PROCEDURE NUMBER	REV. NO.	TITLE	DATE SIGNED BY SUPER.	DATE OF LAST PERIODIC REVIEW
EP-233	5	Retrieving and Changing Sample Filters and Cartridges from the Containment Leak Detector During Emergencies	03/14/85	
EP-234	5	Obtaining Containment Gas Samples from the Containment Leak Detector During Emergencies	03/14/85	
EP-235	5	Obtaining Reactor Water Samples from Sample Sinks Following Accident Conditions	03/14/85	
EP-236	5	Obtaining Cooling Tower Blowdown Line Water Samples Following Radioactive Liquid Release after Accident Conditions	03/14/85	
EP-237	7	Obtaining the Iodine/ Particulate and/or Gas Samples from the North Vent Wide Range Gas Monitor (WRGM)	03/28/85	
EP-238	4	Obtaining Liquid Radwaste Samples from Radwaste Sample Sink Following Accident Conditions	12/12/84	
EP-240		CANCELLED		
EP-241	8	Sample Preparation and Handling of Highly Radioactive Liquid Samples	03/14/85	
EP-242	5	Sample Preparation and Handling of Highly Radioactive Particulate Filters and Iodine Cartridges	03/23/85	
EP-243	5	Sample Preparation and Handling of Highly Radioactive Gas Samples	12/12/84	
EP-244	2	Offsite Analysis of High Activity Samples	03/12/85	

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PROCEDURE NUMBER	REV. NO.	TITLE	DATE SIGNED BY SUPER.	DATE OF LAST PERIODIC REVIEW
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EP-252	5	Search and Rescue/First Aid Group	04/01/85	04/01/85
EP-253	0	Personnel Dosimetry, Bioassay, and Respiratory Protection Group	12/12/84	
EP-254	3	Vehicle and Evacuee Control Group	02/04/85	
EP-255	2	Vehicle Decontamination	12/12/84	
EP-260	2	Fire and Damage Control Team	12/12/84	
EP-261	2	Damage Repair Group	12/12/84	
EP-272	4	Philadelphia Electric Company Officials Phone List	02/04/85	
EP-273	4	Limerick Station Supervision Call List	02/11/85	
EP-275		CANCELLED		
EP-276	5	Fire and Damage Team Phone List	01/24/85	
EP-277	6	Personnel Safety Team Phone List	02/11/85	
EP-278	5	Security Team Phone List	03/25/85	
EP-279	5	Emergency Operations Facility (EOF) Group Phone List	04/18/85	
EP-280	6	Technical Support Center Phone List	03/12/85	
EP-282	4	Government and Emergency Management Agencies Phone List	01/22/85	
EP-284	4	Company Consultants and Contractors Phone List	01/22/85	
EP-287	3	Nearby Public and Industrial Users of Downstream Water	02/11/85	

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PROCEDURE NUMBER	REV. NO.	TITLE	DATE SIGNED BY SUPER.	DATE OF LAST PERIODIC REVIEW
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EP-301	1	Operating the Evacuation Alarm and River Warning System	12/12/84	
EP-303	3	Local Evacuation	12/12/84	
EP-304	3	Partial Plant Evacuation	12/12/84	
EP-305	5	Site Evacuation	03/25/85	
EP-306	2	Evacuation of the Information Center	04/18/85	
EP-307	2	Reception and Orientation of Support Personnel	12/12/84	
EP-312	4	Radioactive Liquid Release	04/18/85	
EP-313	2	Distribution of Thyroid Blocking Tablets	12/12/84	
EP-314	1	Emergency Radiation Exposure Guidelines and Controls	03/29/85	
EP-315	5	Calculation of Offsite Doses During a (Potential) Radiological Emergency Using RIMS in the Manual Mode	04/01/85	
EP-316	3	Cumulative Population and Near Real-Time Emergency Dose Calculations for Airborne Releases Manual Method	04/01/85	
EP-317	3	Determination of Protective Action Recommendations	03/25/85	
EP-318	2	Liquid Release Dose Calculations Method for Drinking Water	04/01/85	04/01/85

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PROCEDURE NUMBER	REV. NO.	TITLE	DATE SIGNED BY SUPER.	DATE OF LAST PERIODIC REVIEW
EP-319	2	Fish Ingestion Pathway Dose Calculation	03/29/85	03/29/85
EP-325	3	Use of Containment Dose Rates to Estimate Release Source Term	02/27/85	
EP-330	4	Emergency Response Facility Habitability	03/14/85	
EP-333	0	Adjustment of Wide Range Gas Monitor Conversion Factors	04/03/85	
EP-401	2	Entry for Emergency Repair and Operations	12/12/84	
EP-410	3	Recovery Phase Implementation	03/29/85	
EP-500	2	Review and Revision of Emergency Plan	12/12/84	

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14-15-55PHILADELPHIA ELECTRIC COMPANY
LIMERICK GENERATING STATION
EMERGENCY PLAN IMPLEMENTING PROCEDUREEP-279 EMERGENCY OPERATIONS FACILITY (EOF) GROUP PHONE LIST1.0 PARTICIPANTS1.1 Communicator calls in group members as needed.2.0 ACTIONS - IMMEDIATE2.1 Communicator shall call people from the following list until appropriate positions are filled.2.2 Site Emergency CoordinatorW. T. Ullrich
Supt. Nuc. Gen. orAlt. R. H. Logue
Supt. Nuc. Serv.Alt.
R. S. Fleishmann II
Supt. PBAPS2.3 Health Physics and Chemistry CoordinatorW. J. Knapp
Dir. Rad. Prot.Alt. J. Fongheiser
Phys. Rad. Prot.2.4 Planning and Scheduling CoordinatorJ. W. Spencer
Outage ManagerAlt. J. P. Law
TRB ChairmanCONFIDENTIAL
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2.5 Procedures Support Coordinator

W. C. Birely
Sr. Eng. Licensing

Alt. C. R. Endriss
Regulatory Engineer

2.6 Dose Assessment Team Leader

G. Murphy
HP Technical Support

Alt. D. Rombold
Physicist Rad. Prot.

2.6.1 Field Survey Group Leader

R. Leddy

Alt. S. Taylor

2.7 EOF Mechanical Engineering Liaison

C. Wiedersum

Alt. H. D. Honan

2.8 EOF Electrical Engineering Liaison

W. C. Ramer
Field Engineer

Alt. J. Lucas
Field Engineer

2.9 EOF Liaison - Corporate Communications

M. D. McCormick
Asst. Mgr. Energy
Education and Information

Alt. R. H. Geiger
Sr. Energy Info. Rep.

Alt. F. L. Pinnell
Energy Info. Rep.

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2.10 Emergency Prep. Coord.

R. A. Kankus
Dir. Em. Prep

Alt. K. W. Schlecker
Physicist Emer. Prep

Alt. Mike Mezias
Analyst - Emer. Prep.

2.11 EOF Security Liaison

R. Weindorfer

Alt. M. Haas

Alt. T. McNamee

2.12 Communicators and Status Board Keepers (5 Minimum)

S. Bobyock
E. Boscola
K. Cenci
M. Diaz
S. Egolf
C. Ecker
W. Lewis
R. Degregorio
J. Dixon
J. Fitzgerald
R. Hawthorne
J. Hopkins
M. Horton
R. Kovach
S. Kovach
Todd Moore
J. Stott
E. J. Tyler
J. Valenia
Scott Wagner

2.13 Data Display Operators

M. McCormick

3.0 ACTIONS - FOLLOW-UP

3.1 None Required.

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4.0 APPENDICES

None

5.0 SUPPORTING INFORMATION

5.1 Purpose

The purpose of this procedure is to provide guidelines and information to call in the EOF Staff.

5.2 Criteria for Use

This procedure can be used when the EOF is activated or additional personnel are needed.

5.3 Special Equipment

None

5.4 References

None

PHILADELPHIA ELECTRIC COMPANY
LIMERICK GENERATING STATION
EMERGENCY PLAN IMPLEMENTING PROCEDURE*Gray*
4-18-85EP-291 STAFFING AUGMENTATION1.0 PARTICIPANTS

- 1.1 Shift Clerk or other assigned person shall perform the following procedure.

2.0 ACTIONS - IMMEDIATE

- 2.1 Shift Clerk or other assigned person shall:

- 2.1.1 Ask the Emergency Director if the TSC and EOF or the TSC only is to be activated so that this information can be given to the Dose Assessment Team Leader and Communicators and what groups are to be activated for transmission to Team Leaders.

Event Classification _____

Facilities to be activated _____

TSC _____

TSC & EOF _____

Groups to be activated _____

Personnel Safety Team _____

Plant Survey _____

1st Aid/Search and rescue _____

Vehicle and Evacuee Control _____

Dosimetry, Bioassay &
Respiratory Protection _____

Dose Assessment Team _____

Technical Support Team _____

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Security _____

Access Control _____

Personnel Accountability _____

Fire and Damage _____

Fire Fighting _____

Damage Repair _____

Chemistry Sampling and Analysis _____

2.1.2 Contact in sequence the personnel listed in Section 2.2.

2.1.3 Inform each person contacted of the event classification, that they are to respond to their assigned location and what groups under them are to be activated. If the person is unable to respond, go to the next person on the list.

2.1.4 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.

2.1.5 Inform Emergency Director of results including discrepancies.

2.2 Personnel to be contacted are:

2.2.1 SHIFT I&C TECHNICIAN

Communicator shall request that the ISC be activated.
(Shift I&C Technician ext.)

I&C Technician

Time

By

RECEIVED

2.2.2 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. J. M. Leitch	}		
Asst. Station Supt. J. F. Franz			
Tech Engineer P. J. Duca			

2.2.3 OPERATIONS ENGINEER

	<u>Time Called</u>	<u>Disposition-Busy, No Ans.-Contacted</u>	<u>Called By</u>
Operations Eng. J. Doering	}		
J. Armstrong			

2.2.4 PERSONNEL SAFETY TEAM LEADER (ONE)

Communicator shall request that the Team Leader call in Group Leaders of groups to be activated and that the Group Leaders call in their groups.

	<u>Time Called</u>	<u>Disposition-Busy, No Ans.-Contacted</u>	<u>Called By</u>
Senior Health Physicist R. W. Dubiel	}		
Applied HP R. Titolo			
T. J. Mscisz			

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2.2.5 DOSE ASSESSMENT TEAM LEADER (ONE)

Communicator shall request the Team Leader to call in team and the Field Survey Group Leader, and to report to the TSC or EOF as determined by Step 2.1.

Technical Support
Health Physicist
G. Murphy

Physicist Rad. Prot.
D. Rombold

Time Called Disposition-Busy,
No Ans.-Contacted Called By

2.2.6 SHIFT MAINTENANCE SUB-FOREMAN

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

Sub-foreman Time By

2.2.7 TECHNICAL SUPPORT TEAM LEADER (ONE)

Communicator shall request call in of Technical Support Team Members.

Time Called Disposition-Busy,
No Ans.-Contacted Called By

Performance Engineer
L. A. Hopkins

I&C Engineer
V. Cwietniewicz

Reactor Engineer
K. W. Hunt

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2.2.8 COMMUNICATORS (ONE per facility)

Communicator shall request call in of members for the TSC or EOF as determined by Step 2.1.1.

	<u>Time Called</u>	<u>Disposition-Busy, No Ans.-Contacted</u>	<u>Called By</u>
Technical Support Center (TSC) Communicator	7		
D. Feaster			
Alternate B. Brown			
EOF Communicator			
K. Cenci			
Alternate W. Lewis			

2.2.9 CHEMISTRY SAMPLING and ANALYSIS TEAM LEADER (ONE)

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

	<u>Time Called</u>	<u>Disposition-Busy, No Ans.-Contacted</u>	<u>Called By</u>
Sr. Chemist J. S. Wiley			
Supv.-Chemist J. Sabados			

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2.2.10 FIRE AND DAMAGE TEAM LEADER (ONE)

Communicator shall request the Team Leader to call the appropriate Group Leaders and have Group Leader call in Group Members.

	<u>Time Called</u>	<u>Disposition-Busy, No Ans.-Contacted</u>	<u>Called By</u>
Engineer Maintenance J. B. Cotton			
J. Wylar or			
A. Braun			

2.2.11 SECURITY TEAM LEADER (ONE)

Communicator shall request the Team Leader to call appropriate Group Leaders and have Group Leaders call in personnel.

	<u>Time Called</u>	<u>Disposition-Busy, No Ans.-Contacted</u>	<u>Called By</u>
Security Administrative Assistant P. Supplee			
Site Captain (Protected Area) M. Berner			
Access Lt. Richard Parker			

3.0 ACTIONS-FOLLOW-UP

3.1 None Required.

4.0 APPENDICES

None.

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5.0 SUPPORTING INFORMATION

5.1 Purpose

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

5.2 Criteria for Use

This procedure shall be implemented at an Alert, a Site Emergency or a General Emergency or at the discretion of the Emergency Director.

5.3 Special Equipment

None.

5.4 References

None.

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4-18-85

PHILADELPHIA ELECTRIC COMPANY
LIMERICK GENERATING STATION
EMERGENCY PLAN IMPLEMENTING PROCEDURE

EP-306 EVACUATION OF THE INFORMATION CENTER

1.0 PARTICIPANTS

- 1.1 Emergency Director shall determine if the Limerick Energy Information Center is to be evacuated.
- 1.2 Information Center Staff shall direct the evacuation.

2.0 ACTIONS-IMMEDIATE

- 2.1 Emergency Director shall:
 - 2.1.1 Call the LIMERICK ENERGY INFORMATION CENTER using the numbers below to determine if anyone is present. Direct the Information Center Staff to evacuate the center.
 - A.
 - B.
 - 2.1.2 If there is a gaseous release of radioactive material, inform the staff as to the wind direction so evacuation routes can be identified.

3.0 ACTIONS-FOLLOW-UP

- 3.1 Information Center Staff shall:
 - 3.1.1 Inform the visitors that a precautionary evacuation is necessary.

EVERY EFFORT SHOULD BE MADE TO KEEP THE VISITORS CALM.
INFORMATION RELATING TO THE VISITOR'S SAFETY SHOULD BE PROVIDED
 - 3.1.2 Have the visitors provide information in Appendix EP-3.

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- 3.1.3 Direct the visitors to leave the Information Center. Inform them to use one of the following routes based on the wind direction, if there has been a gaseous release of radioactive material.

Wind Direction
From:

Evacuation Routes

NW	Take Longview Road North to 422
SW	Take Longview Road South to 724
Other Directions	Either route

- 3.1.4 When possible, forward the list of visitors to the Personnel Safety Team Leader.
- 3.1.5 Direct the Information Center staff to secure the building and leave per the appropriate evacuation routes.

4.0 APPENDICES

- 4.1 EP-306-1, Information Center Visitor's List

5.0 SUPPORTING INFORMATION

5.1 Purpose

The purpose of this procedure is to define the actions to be performed in the event that the Information Center must be evacuated.

5.2 Criteria For Use

This procedure shall be implemented by the Emergency Director at his discretion or when a site evacuation is implemented in accordance with EP-305, Site Evacuation.

5.3 Special Equipment

None

5.4 References

- 5.4.1 Limerick Generating Station Emergency Plan
- 5.4.2 NUREG 0654, Criteria For Preparation and
Rev. 2 Evaluation of Radiological Emergency
Response Plans and Preparedness In
Support of Nuclear Power Plants.
- 5.4.3 EP-305 Site Evacuation

APPENDIX EP-306-1
INFORMATION CENTER VISITORS LIST

[illegible]

SIGNATURE-INFORMATION CENTER STAFF

DATE _____

TIME

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14-18-85PHILADELPHIA ELECTRIC COMPANY
LIMERICK GENERATING STATION
EMERGENCY PLAN IMPLEMENTING PROCEDUREEP-312 RADIOACTIVE LIQUID RELEASE1.0 PARTICIPANTS

- 1.1 Emergency Director shall have the necessary actions performed to terminate the liquid release and evaluate the consequences of the release.
- 1.2 Site Emergency Coordinator, if activated, or Emergency Director shall direct the follow-up actions of notification of downstream water users and river sampling, if required.

2.0 ACTIONS-IMMEDIATE

- 2.1 Emergency Director shall:
 - 2.1.1 Direct the immediate steps necessary to terminate the discharge to the river.
 - 2.1.2 Direct the Chemistry Sampling and Analysis Team Leader to initiate sampling of the blowdown line in accordance with EP-236, Obtaining Cooling Tower Blowdown Line Water Samples Following Radioactive Liquid Release After Accident Conditions.
 - 2.1.3 Direct the Dose Assessment Team Leader to estimate dose projections from the ingestion of drinking water and fish in accordance with EP-318, Liquid Release Dose Calculation Method for Drinking Water and EP-319, Fish Ingestion Pathway Dose Calculation, respectively.
- 2.2 Site Emergency Coordinator, if activated or Emergency Director shall:
 - 2.2.1 Based on results of estimated dose projections for downstream water users and fish ingestion, direct his communicator to notify the Department of Environmental Resources.

A.

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C.

2.2.2 If requested by the Department of Environmental Resources, direct his communicator to notify the downstream domestic water users in EP-287, Nearby Public and Industrial Users of Downstream Water.

2.2.3 If necessary, direct the HP&C Coordinator to activate and request the Environmental Sampling Coordinator to assign personnel to sample the river water near the intake for the following water companies sampled at the appropriate time based on the Estimated Transit Time for that location.

The Estimated Transit Time is the time required for the material released to reach the location of interest.

	<u>Location</u>	<u>Estimated Transit Time (hrs)</u>
A.	Citizens Utilities Home Water Company-Royersford	1.5
B.	Phoenixville Water	10
C.	Philadelphia Suburban Water	16
D.	Norristown Water	27
E.	Philadelphia Belmont Water	50

2.2.4 Direct the Chemistry Sampling and Analysis Team Leader and/or Environmental Sampling Coordinator to transmit the sampling results back to them.

3.0 ACTIONS-FOLLOW-UP

None

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4.0 APPENDICES

None

5.0 SUPPORTING INFORMATION

5.1 Purpose

The purpose of this procedure is to provide guidelines for the actions to be taken when an uncontrolled liquid release of radioactive material occurs.

5.2 Criteria for Use

- 5.2.1 A liquid effluent release in excess of Technical Specification 3.11.1.1 or 3.11.1.2 has occurred.

5.3 Special Equipment

None

5.4 References

- 5.4.1 Limerick Generating Station Emergency Plan
- 5.4.2 EP-236 Obtaining Cooling Tower Blowdown Line Water Samples Following Radioactive Liquid Release After Accident Conditions
- 5.4.3 EP-318 Liquid Release Dose Calculation Method For Drinking Water
- 5.4.4 EP-319 Fish Ingestion Pathway Dose Calculation
- 5.4.5 EP-287 Nearby Public And Industrial Users Of Downstream Water
- 5.4.6 EROL Appendix 5.2A Radiological Dose Model-Liquid Effluents
- 5.4.7 10CFR Part 20 Appendix B
- 5.4.8 LGS Technical Specifications