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Revision 28  
02/11/85LIMERICK GENERATING STATION  
EMERGENCY PLAN PROCEDURE INDEX

PROCEDURE NUMBER	REV. NO.	TITLE	DATE SIGNED BY SUPER.	DATE OF LAST PERIODIC REVIEW
EP-101	3	Classification of Emergencies	12/12/84	
EP-102	6	Unusual Event Response	12/12/84	
EP-103	7	Alert Response	02/04/85	
EP-104	7	Site Emergency Response	02/04/85	
EP-105	7	General Emergency Response	02/04/85	
EP-106	3	Written Summary Notification	01/28/85	
EP-110	5	Personnel Assembly and Accountability	02/04/85	
EP-120	2	Site Emergency Coordinator	12/12/84	
EP-201	3	Technical Support Center (TSC) Activation	01/28/84	
EP-202	3	Operations Support Center (OSC) Activation	12/12/84	
EP-203	4	Emergency Operations Facility (EOF) Activation	01/28/85	
EP-208	4	Security Team	12/12/84	
EP-210	3	Dose Assessment Team	12/12/84	
EP-211	0	Field Survey Group	12/12/84	
EP-220		CANCELLED		
EP-221		CANCELLED		
EP-222		CANCELLED		
EP-230	4	Chemistry Sampling and Analysis Team	12/11/84	
EP-231	6	Operation of Post- Accident Sampling Systems (PASS)	01/11/85	
EP-232		CANCELLED		

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LIMERICK GENERATING STATION  
EMERGENCY PLAN PROCEDURE INDEX

PROCEDURE NUMBER	REV. NO.	TITLE	DATE SIGNED BY SUPER.	DATE OF LAST PERIODIC REVIEW
EP-233	4	Retrieving and Changing Sample Filters and Cartridges from the Containment Leak Detector During Emergencies	12/12/84	
EP-234	4	Obtaining Containment Gas Samples from the Containment Leak Detector During Emergencies	12/12/84	
EP-235	4	Obtaining Reactor Water Samples from Sample Sinks Following Accident Conditions	12/12/84	
EP-236	4	Obtaining Cooling Tower Blowdown Line Water Samples Following Radioactive Liquid Release after Accident Conditions	12/12/84	
EP-237	5	Obtaining the Iodine/ Particulate and/or Gas Samples from the North Vent Wide Range Gas Monitor (WRGM)	01/11/85	
EP-238	4	Obtaining Liquid Radwaste Samples from Radwaste Sample Sink Following Accident Conditions	12/12/84	
EP-240		CANCELLED		
EP-241	7	Sample Preparation and Handling of Highly Radioactive Liquid Samples	02/04/85	
EP-242	4	Sample Preparation and Handling of Highly Radioactive Particulate Filters and Iodine Cartridges	12/12/84	
EP-243	5	Sample Preparation and Handling of Highly Radioactive Gas Samples	12/12/84	
EP-244	2	Offsite Analysis of High Activity Samples	01/22/85	

LIMERICK GENERATING STATION  
EMERGENCY PLAN PROCEDURE INDEX

PROCEDURE NUMBER	REV. NO.	TITLE	DATE SIGNED BY SUPER.	DATE OF LAST PERIODIC REVIEW
EP-250	2	Personnel Safety Team	12/12/84	
EP-251	2	Plant Survey Group	12/12/84	
EP-252	4	Search and Rescue/First Aid Group	02/11/85	
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	4	Security Team Phone List	01/28/85	
EP-279	4	Emergency Operations Facility (EOF) Group Phone List	01/22/85	
EP-280	5	Technical Support Center Phone List	01/22/85	
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	

LIMERICK GENERATING STATION  
EMERGENCY PLAN PROCEDURE INDEX

PROCEDURE NUMBER	REV. NO.	TITLE	DATE SIGNED BY SU. R.	DATE OF LAST PERIODIC REVIEW
EP-291	4	Staffing Augmentation	12/12/84	
EP-292	6	Chemistry Sampling and Analysis Team Phone List	01/22/85 *	
EP-294	5	Dose Assessment Team Phone List	02/04/85	
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	4	Site Evacuation	02/11/85	
EP-306	1	Evacuation of the Information Center	12/12/84	
EP-307	2	Reception and Orientation of Support Personnel	12/12/84	
EP-312	2	Radioactive Liquid Release	02/11/85	
EP-313	2	Distribution of Thyroid Blocking Tablets	12/12/84	
EP-314	0	Emergency Radiation Exposure Guidelines and Controls	12/06/84	
EP-315	3	Calculation of Offsite Doses During a (Potential) Radiological Emergency Using RMMS in the Manual Mode	02/04/85	
EP-316	2	Cumulative Population and Near Real-Time Emergency Dose Calculations for Airborne Releases Manual Method	12/13/84	
EP-317	2	Determination of Protective Action Recommendations	12/12/84	
EP-318	1	Liquid Release Dose Calculations Method for Drinking Water	12/12/84	



LIMERICK GENERATING STATION  
EMERGENCY PLAN PROCEDURE INDEX

PROCEDURE NUMBER	REV. NO.	TITLE	DATE SIGNED BY SUPER.	DATE OF LAST PERIODIC REVIEW
EP-319	1	Fish Ingestion Pathway Dose Calculation	12/12/84	
EP-325	2	Use of Containment Dose Rates to Estimate Release Source Term	12/12/84	
EP-330	3	Emergency Response Facility Habitability	12/12/84	
EP-401	2	Entry for Emergency Repair and Operations	12/12/84	
EP-410	2	Recovery Phase Implementation	12/12/84	
EP-500	2	Review and Revision of Emergency Plan	12/12/84	

PHILADELPHIA ELECTRIC COMPANY  
LIMERICK GENERATING STATION  
EMERGENCY PLAN IMPLEMENTING PROCEDUREG. J. J.  
2-11-85EP-252      SEARCH AND RESCUE/FIRST AID GROUP1.0      PARTICIPANTS

- 1.1      Personnel Safety Team Leader shall control the Search and Rescue/First Aid Group's exposure and provide offsite medical support, as necessary.
- 1.2      Search and Rescue/First Aid Group Leader shall direct operations of the group.
- 1.3      Search and Rescue/First Aid Group members shall perform rescue operations and administer First Aid.
- 1.4      Operations Support Center (OSC) Coordinator shall form Search and Rescue/First Aid Groups.

2.0      ACTIONS - IMMEDIATE

- 2.1      Personnel Safety Team Leader shall:
  - 2.1.1      Contact the Operations Support Center Coordinator at the Operations Support Center (OSC) and direct him to form Search and Rescue/First Aid Group(s).

## CAUTION

PERSONNEL SHALL PARTICIPATE IN SEARCH AND RESCUE OPERATIONS ON A VOLUNTARY BASIS.

2.1.2      Inform the Emergency Director that Search and Rescue/First Aid Group(s) have been formed and of their intentions to enter the plant for search and rescue operations.

ATTEMPT TO LOCATE MISSING PERSON(S) BY UTILIZING PLANT PAGING SYSTEM JUST PRIOR TO ACTUALLY DISPATCHING THE SEARCH AND RESCUE GROUP(S).

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- 2.1.3 Obtain exposure limits from the Emergency Director. If later search and rescue operations are necessary, the Emergency Director may adjust the radiation exposure limits accordingly.

CAUTION

IF WAITING FOR EMERGENCY DIRECTOR APPROVAL COULD ENDANGER PERSONNEL, THE SEARCH AND RESCUE/FIRST AID GROUP LEADER MAY DECIDE TO REMOVE INJURED PERSON.

CAUTION

PLANNED RADIATION EXPOSURES SHOULD BE LIMITED TO THE ADMINISTRATIVE GUIDE LEVELS IN APPENDIX EP-252-1, EMERGENCY EXPOSURE GUIDELINES.

- 2.1.4 If offsite medical help is necessary, have the ambulance, hospital or physician contacted by using Appendix EP-252-4, Medical Support Groups Phone List. Always state the number of individuals involved, type of injury and if contamination is involved.
- 2.1.4.1 Contact Pottstown Memorial Medical Center and Goodwill ambulance as first choice.
- 2.1.4.2 If Goodwill is not available contact Trappe ambulance.
- 2.1.4.3 If evacuation of the EPZ has been declared, contact RMC to arrange for a helicopter and use of Hospital of University of Pennsylvania.
- 2.1.4.4 If medical support is required on site, contact one of the local physicians.
- 2.1.5 Notify security so that the offsite medical response group's access to the Restricted Area can be expedited, if necessary.
- 2.1.6 Recall the Search and Rescue/First Aid Group(s) when search and rescue operations are no longer necessary.

- 2.2      OSC Coordinator shall:
- 2.2.1    Select volunteers from available personnel to form Search and Rescue/First Aid Group(s).  
  
EACH GROUP SHALL CONSIST OF AT LEAST THREE MEMBERS; TWO MUST BE QUALIFIED IN FIRST AID AND ONE MUST BE A HEALTH PHYSICS TECHNICIAN.
- 2.2.2    Appoint the most qualified person as group leader.
- 2.3      The Search and Rescue/First Aid Group Leader shall:
- 2.3.1    Ensure that each member has the necessary respiratory equipment, radsurvey equipment, anti-contamination clothing, and personnel dosimetry if time permits. This material can be obtained from emergency survey kits at the OSC or from normal HP stocks.
- 2.3.2    Discuss the situation with the Personnel Safety Team Leader. The following information should be obtained prior to performing search and rescue operations:
  - A. Number of missing persons.
  - B. Name of individuals.
  - C. Last known location of individuals.
  - D. The job being worked.
  - E. Any significant plant conditions that may affect the search and any special instructions.
- 2.3.3    Ensure the group is equipped with a first aid kit, stretcher and blanket, or can get them enroute. See attached Appendix EP-252-2 for listing of first aid equipment location in the plant.
- 2.3.4    Coordinate Search and Rescue/First Aid Groups to minimize duplication of effort and unnecessary radiation exposure.
- 2.3.5    Direct the groups to the last known location of the missing individual. If necessary, expand the search to adjacent areas. Ensure most expeditious routes available are taken to minimize team exposure.



- 2.3.6 Inform the Personnel Safety Team Leader of the actions of the group(s) and whenever the group locates any missing personnel, and the identity of located personnel.
  - 2.3.7 Determine the extent of the injury and direct administration of first aid.
  - 2.3.8 Report to the Personnel Safety Team Leader the extent of the individual's injuries and recommend supplementary medical actions as necessary (i.e., hospitalization). Complete Appendix EP-252-3 (if possible) and attach to injured person prior to transporting in ambulance.
  - 2.3.9 Report to the Personnel Safety Team Leader when the Search and Rescue/First Aid Group has finished its task.
  - 2.4 Search and Rescue/First Aid Group Members shall:
    - 2.4.1 Locate the missing person(s).
    - 2.4.2 Administer first aid, if necessary.
- IF THE INJURY IS SEVERE, IMMEDIATE MEDICAL TREATMENT IS OF THE HIGHEST PRIORITY AND RADIOLOGICAL CONTROLS ARE SECONDARY.
- 2.4.3 Perform a radiation and contamination survey of the person and subsequently the area.

CAUTION

RADIATION EXPOSURE AND GROUP MEMBER CONTAMINATION SHOULD BE MINIMIZED AS MUCH AS PRACTICAL.

CAUTION

IF GROSS EXTERNAL CONTAMINATION IS FOUND, INTERNAL CONTAMINATION SHOULD BE SUSPECTED.

- 2.4.4 Transport the injured person to a site first aid facility if practicable.
- 2.4.5 Perform the following if the injured person is contaminated.

- A. Wear necessary anti-contamination clothing if practicable.
- B. IF INJURY IS NOT SEVERE, DECONTAMINATION SHALL BE ATTEMPTED.

- C. Prepare the person for transportation by covering the contaminated area with a protective wrap. Avoid excessive wrapping to prevent dehydration of the person.

IF THE INJURED PERSON IS GOING TO BE TRANSPORTED TO AN OFFSITE MEDICAL FACILITY, IT MAY NOT BE FEASIBLE TO BRING THE PERSON TO THE FIRST AID FACILITY. INSTEAD, MOVE THE PERSON TO A SAFE PLACE WHICH IS EASILY ACCESSIBLE FOR THE TRANSFER TO A VEHICLE.

- D. When transporting the victim to an offsite medical facility, a Health Physics Technician shall accompany the victim to assist the medical staff.
- E. A second HP technician shall also report to the hospital.

- 2.4.6 Recover any contaminated articles of clothing that may have been removed from the person for isotopic analysis.

### 3.0 ACTIONS - FOLLOW-UP

- 3.1 Search and Rescue/First Aid Group members shall:
  - 3.1.1 Report results of their actions to the Personnel Safety Team Leader.
  - 3.1.2 Follow normal decontamination and disposal procedures when their tasks are complete.
- 3.2 Personnel Safety Team Leader shall:
  - 3.2.1 Verify the victim's arrival at the medical facilities.
  - 3.2.2 Inform the Emergency Director of results of search and rescue/first aid efforts.

- 3.2.3 Direct the Emergency Director to inform the Emergency Medical Director and Communications Coordinator as to the identity and condition of the victim(s).
- 3.2.4 Direct a Health Physics Technician to accompany the victim to the hospital and to call when informed by the hospital that his services are no longer needed. Direct the technician to return dosimetry to site to be read and leave survey equipment at hospital.
- 3.2.5 Arrange for inventory and restocking of first aid kits, if necessary.

#### 4.0 APPENDICES

- 4.1 EP-252-1 Emergency Exposure Guidelines
- 4.2 EP-252-2 First Aid Equipment Locations
- 4.3 EP-252-3 Injured Personnel Report Form
- 4.4 EP-252-4 Medical Support Group Phone List

#### 5.0 SUPPORTING INFORMATION

##### 5.1 Purpose

The purpose of this procedure is to define the requirements and the actions of the Search and Rescue/First Aid Group.

##### 5.2 Criteria for Use

This procedure shall be implemented whenever personnel are known to be missing or are injured.

##### 5.3 Special Equipment

##### 5.3.1 First Aid Kit

5.4        References

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



APPENDIX EP-252-1

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-252-2  
FIRST AID EQUIPMENT LOCATIONS

	<u>First Aid Kits</u>	<u>Blankets</u>	<u>Stretchers</u>
<u>Unit 1 Reactor Enclosure</u>			
177' Corridor 111 near Core Spray	X	X	X
201' Outside Elevator	X	X	
201' Inside Airlock	X	X	
217' Near Equip Airlock	X	X	
253' By Elevator	X	X	X
253' By Personnel Airlock	X	X	X
283' Corridor near Elevator (506)	X	X	
283' Near Fuel Pool Cooling room (511)	X	X	
313' By Elevator	X	X	X
313' Airlock to Fan Room (607)	X	X	
373' Laydown Area (602)	X	X	
331' By Stairs	X	X	
352' Change Area	X	X	X
<u>Unit 1 Turbine Enclosure</u>			
200' Near Room 261	X	X	
200' Corridor 277	X	X	
217' 325A Corridor-aux Equip & Piping	X	X	
302' Equip Exhaust filter (621)			

APPENDIX EP-252-2  
FIRST AID EQUIPMENT LOCATIONS

	<u>First Aid Kits</u>	<u>Blankets</u>	<u>Stretchers</u>
<u>Control Enclosure</u>			
200' Elevator Area	X	X	
217' Switchgear Area	X	X	
217' Stairwell	X	X	X
239' Stairwell	X	X	X
253' Stairwell	X	X	
269' Control Room	X	X	X
<u>Control Enclosure</u>			
331' Stairwell	X	X	X
<u>Radwaste Enclosure</u>			
217' Conv. Chem Lab	X	X	
217' Radwaste Control Room	X	X	

APPENDIX EP 252-3  
INJURED PERSONNEL REPORT FORM  
(PREPARE IN DUPLICATE)

Injured Person's Name \_\_\_\_\_

Age \_\_\_\_\_

Badge No. Or  
Social Security No. \_\_\_\_\_

Male \_\_\_\_\_ Female \_\_\_\_\_

Type and Location of Injury \_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

Radioactive Contamination \_\_\_\_\_ Yes \_\_\_\_\_ No \_\_\_\_\_ Level \_\_\_\_\_

Location \_\_\_\_\_

Radiation Exposure Estimate \_\_\_\_\_

Where Did Injury Occur \_\_\_\_\_  
\_\_\_\_\_

Prepared by First Aid Group Leader \_\_\_\_\_

SIGNATURE

Group Members \_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

If practicable forward original, with the person, to the site first aid facility or hospital as appropriate.



APPENDIX EP-252-4  
MEDICAL SUPPORT GROUP PHONE LIST

Local Physicians

Dr. Charles W. Delp

Dr. Arthur Mann

Office

Home

Pottstown Memorial Medical Center

1600 E. High St.  
Pottstown, PA 19464

(Contaminated or otherwise)

Radiation Management Corporation

(Serious Contamination/or  
Exposure\* multiple  
contaminated personnel)

Dr. Roger E. Linneman

Preferred

Alternate

Ambulance

Goodwill Ambulance Co.

Trappe Ambulance Co.

\*Serious Contamination/Exposure is:

Whole Body Exposure greater than 25 REM or skin exposure  
greater than 150 REM or extremity exposure greater than 375  
REM or contamination causing body contacted reading of  
greater than 1 MR/HR or suspected or actual inhalation or  
ingestion of measurable quantities of radioactive material.

**PROPRIETARY**

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PHILADELPHIA ELECTRIC COMPANY  
LIMERICK GENERATING STATION  
EMERGENCY PLAN IMPLEMENTING PROCEDURE

Gray  
2-11-85

EP-273 LIMERICK STATION SUPERVISION CALL LIST

1.0 PARTICIPANTS

1.1 Communicator contacts Station Supervision.

2.0 ACTIONS - IMMEDIATE

2.1 Communicator shall contact people from the following list as required:

2.1.1 STATION SUPERINTENDENT:

Home

Work

G. M. Leitch

2.1.2 ASSISTANT STATION SUPERINTENDENT:

J. F. Franz

2.1.3 OUTAGE MANAGER:

J. W. Spencer

2.1.4 TECHNICAL ENGINEER:

P. J. Duca

2.1.5 ENGINEER - MAINTENANCE:

J. B. Cotton

2.1.6 ENGINEER - OPERATIONS:

J. Doering

2.1.7 SENIOR HEALTH PHYSICIST:

R. W. Dubiel

2.1.8 SENIOR CHEMIST:

J. S. Wiley

PROPERTY  
OF  
VAW  
LIMERICK  
STATION  
SUPERVISION  
CALL LIST

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- 2.1.9 ADMINISTRATIVE ENGINEER:  
J. A. Basilio
- 2.1.10 PERFORMANCE ENGINEER:  
L. A. Hopkins  
V. J. Cwietniewicz
- 2.1.11 SECURITY ADMINISTRATIVE ASSISTANT:  
P. Supplee
- 2.1.12 INSTRUMENTATION & CONTROL ENGINEER:  
G. R. Rainey
- 2.1.13 REACTOR ENGINEER:  
K. W. Hunt
- 2.1.14 APPLIED HEALTH PHYSICIST:  
R. J. Titolo
- 2.1.15 HEALTH PHYSICIST - TECHNICAL SUPPORT:  
G. W. Murphy
- 2.1.16 ASSISTANT ENGINEER - MAINTENANCE:  
C. Wyler
- 2.1.17 SUPV - CHEMIST:  
J. Sabados

Home

Work

PROPRIETARY

2.2 SHIFT SUPERINTENDENT:

Home

Work

2.2.1 C. Gillespie

2.2.2 R. Hampton

2.2.3 J. Monaghan

2.2.4 W. Truax

2.2.5 W. Barnshaw

2.2.6 E. Cosgrove

2.3 SHIFT SUPERVISORS:

2.3.1 G. Paton

2.3.2 R. Delaney

2.3.3 W. Russell

2.3.4 R. Kennedy -

2.3.5 W. Stanley

2.3.6 M. Cory

3.0 ACTIONS-FOLLOWUP

None required.

4.0 APPENDICES

None.

PROPRIETARY



5.0 SUPPORTING INFORMATION

5.1 Purpose

The purpose of this procedure is to provide information for contacting Station Supervision.

5.2 Criteria for Use

This procedure may be used when it is necessary to contact members of Station Supervision.

5.3 Special Equipment

None.

5.4 References


None.



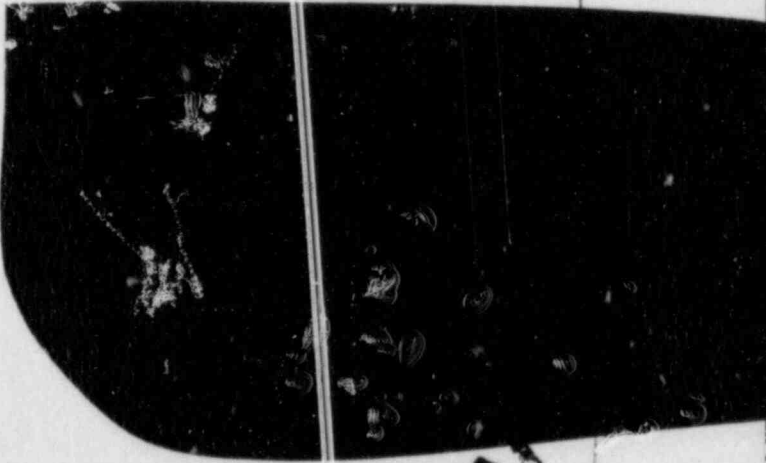

2.1.3 Personnel Dosimetry, Bioassay, and Respiratory Protection Group Leader

<u>Name</u>	<u>Home</u>	<u>Work</u>
B. Bolger		
R. Barclay		

2.1.4 Vehicle and Evacuee Control Group Leader

<u>Name</u>	<u>Home</u>	<u>Work</u>
C. Smith		
J. Scone		
(Alternate)		

2.2 Plant Survey Group Leader shall call the Health Physics Unit Technical Assistant and the Health Physics Sr. Technicians:

<u>Name</u>	<u>Home</u>	<u>Work</u>
S. F. Baker (Unit T.A.)		
A. Parducci (Sr. Tech)		
D. Fay (Sr. Tech)		
D. Hines (Sr. Tech)		
R. Gosnay (Sr. Tech)		
R. Shortes (Sr. Tech)		
J. Creedon (Sr. Tech)		

2.3 Health Physics Sr. Technicians shall call the individuals on their shift and instruct them to report to the OSC (unless an alternate area is designated by The Personnel Safety Team Leader) as follows:

NOTE


THE FOLLOWING SHIFTS ARE THOSE IN EFFECT ON 10/25/84. AS CHANGES OCCUR, THE SR. TECHNICIANS SHOULD CALL THOSE PERSONNEL ASSIGNED TO THEIR SHIFT AT THAT TIME.

PROPRIETARY

2.3.1 A. Parducci

<u>Name</u>	<u>Home Phone</u>	<u>Work</u>
C. Red		
J. Gerhart		
J. Lightner		
R. Harcombe		

2.3.2 D. Fay

<u>Name</u>	<u>Home Phone</u>	<u>Work</u>
B. Landis		
E. Golden		
J. Chobot		
R. Dailey		
R. Gidding		

2.3.3 D. Hines

<u>Name</u>	<u>Home</u>	<u>Work</u>
S. Sweisford		
D. Nugent		
W. Florian		
B. Mahanes		

2.3.4 R. Gosnay

<u>Name</u>	<u>Home</u>	<u>Work</u>
N. Root		
N. Irwin		
W. Strubilla		
R. Good		
B. Smith		

2.3.5 R. Shortes

<u>Name</u>	<u>Home</u>	<u>Work</u>
A. Reyes		
M. Bilinski		
R. Engle		
W. Lehmbeck		
J. Wlecjorek		

2.3.6 J. Creedon

<u>Name</u>	<u>Home</u>	<u>Work</u>
S. Schymanski		
J. Kanaskie		
D. Haas		
M. L. Engle		
T. Woodring		

3.0 ACTIONS FOLLOW-UP

3.1 None required

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 Personnel Safety Team Members.

5.2 Criteria for Use

This procedure can be used when the Personnel Safety Team is activated or when additional people are needed.

5.3 Special Equipment

None

5.4 References

None

PROPRIETARY



PHILADELPHIA ELECTRIC COMPANY  
LIMERICK GENERATING STATION  
EMERGENCY PLAN IMPLEMENTING PROCEDUREG. Lian  
2-11-75EP-287. NEARBY PUBLIC AND INDUSTRIAL USERS OF DOWNSTREAM WATER

## CAUTION

Ensure that the Pennsylvania Department of Environmental Resources has concurred with notification of downstream water users by PECO.

1.0 PARTICIPANTS

- 1.1 Pennsylvania Department of Environmental Resources shall be responsible for the notification of the downstream domestic water users, unless specifically delegated to PECO.
- 1.2 Emergency Director or Site Emergency Coordinator shall direct the implementation of this procedure.
- 1.3 Communicator, when directed by the Emergency Director or Site Emergency Coordinator, shall be responsible to contact the downstream users.

2.0 ACTIONS IMMEDIATE

- 2.1 Communicator shall contact the downstream users using the list in section 2.2 and inform each of the information listed below:
- 2.1.1 There has been a radioactive liquid release into the river.
- 2.1.2 Estimated Transit Time to their intake (for water companies only).
- 2.1.3 Suggest that they close their intake until further notice.

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ESTIMATED TRANSIT TIME FOR WATER COMPANIES CAN BE  
OBTAINED FROM EP-312, RADIOACTIVE LIQUID RELEASE.

- 2.2 Downstream Users
- 2.2.1 Citizens Utility Home Water Co.  
[REDACTED]
- 2.2.2 Philadelphia Electric Co.  
Cromby Generating Station  
[REDACTED]
- 2.2.3 Philadelphia Suburban Water Co.  
[REDACTED] (Office)  
[REDACTED] after 5 pm  
[REDACTED] (Plant)
- 2.2.4 Phoenixville Water Authority  
[REDACTED]
- 2.2.5 Lukens Steel Co.  
[REDACTED]
- 2.2.6 Phoenix Steel Corp.  
Phoenixville Plant  
[REDACTED]
- 2.2.7 Synthane - Taylor Corp.  
[REDACTED]
- 2.2.8 Nicolet Industries, Inc.  
Norristown Plant  
[REDACTED]
- 2.2.9 Keystone Water Co., (Norristown District)  
[REDACTED]
- 2.2.10 City of Philadelphia, Queen Lane Plant  
[REDACTED]
- 2.2.11 City of Philadelphia, Belmont Plant  
[REDACTED]
- 2.2.12 Container Corp. of America  
Philadelphia Plant, Mill Dr.  
[REDACTED]
- 2.2.13 Connelly Container, Inc.  
Philadelphia Plant  
[REDACTED]

PROPRIETARY

3.0 ACTIONS-FOLLOWUP

3.1 Communicator shall:

- 3.1.1 When the Emergency Director or Site Emergency Coordinator and Pennsylvania Department of Environmental Resources have determined that the concentration of radioactive material in the river is at or below acceptable levels, contact the downstream users and inform them of this information.

4.0 APPENDICES

None

5.0 SUPPORTING INFORMATION

5.1 Purpose

The purpose of this procedure is to provide information to contact downstream users of the Schuylkill River.

5.2 Criteria For Use

- 5.2.1 Verify that EP-312, Radioactive Liquid Release has been completed.
- 5.2.2 Verify that Pennsylvania Department of Environmental Resources has concurred with the notification of the downstream domestic water users by PECO.
- 5.2.3 This procedure can be used when there has been a release to the Schuylkill River.

5.3 Special Equipment

None

5.4 REFERENCES

5.4.1 EP-312 Radioactive Liquid Release

PHILADELPHIA ELECTRIC COMPANY  
LIMERICK GENERATING STATION  
EMERGENCY PLAN IMPLEMENTING PROCEDUREGray  
9-11-85EF-305 SITE EVACUATION1.0 PARTICIPANTS

- 1.1 Emergency Director shall direct the evacuation of the site.
- 1.2 Security shall perform accountability of personnel during the evacuation.
- 1.3 Bechtel/Subcontractor personnel shall evacuate in accordance with Bechtel Evacuation Procedures.
- 1.4 Non-essential Unit 1 and Unit 2 personnel shall evacuate.

2.0 ACTIONS - IMMEDIATE

- 2.1 Emergency Director shall:
  - 2.1.1 Determine the offsite assembly area based on wind direction, weather conditions, and other pertinent information.  
Cromby Generating Station or,  
Limerick Airport
  - 2.1.2 Determine route to be used to leave site (i.e. main gate or back gate). If wind is from south consider using back gate, for any other direction consider the main gate.

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

- 2.1.3 Notify and inform the Security Team Leader of the following information:
  - A. Chosen exit points, routes and selected offsite assembly areas.



B. Implement EP-208, Security Team for Site Evacuation.

2.1.4 Notify and inform the Personnel Safety Team Leader of the following information:

A. Chosen exit points, routes and selected offsite assembly areas.

B. Implement the applicable actions in EP-254, Vehicle and Evacuee Control Group.

2.1.5 Notify PEMA or BRP (if on site) that a Site Evacuation is being called.

2.1.6 Evacuate all Construction Personnel by contacting Bechtel Safety ~~\_\_\_\_\_~~ or Security ~~\_\_\_\_\_~~ and direct them to call for a "Total Project Evacuation" in accordance with Bechtel Evacuation Procedures, if not already done, and direct them to report to the selected offsite assembly area using the selected routes for leaving the site.

2.1.7 Implement the evacuation of the Information Center in accordance with EP-306, Evacuation of the Information Center ~~\_\_\_\_\_~~ if not already done.

2.1.8 When the Security Team Leader is ready, direct the ACTIVATION OF THE ALARM in accordance with EP-301, Operating the Evacuation and River Warning System.

ACTIVATE BOTH THE SIREN AND THE RIVER WARNING MESSAGE.

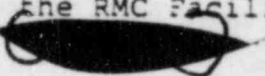
2.1.9 When the alarms are silent, ANNOUNCE EVACUATION as follows:

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

2.1.10 Activate alarms again.

2.1.11 Repeat announcement. Make announcement on Unit 2

**PROPRIETARY**

- 2.1.12 Direct the workers at the RMC Facility on Fricks Lock Road to evacuate 

3.0 ACTIONS - FOLLOW-UP

3.1 Security shall:

- 3.1.1 Perform accountability of personnel in accordance with EP-110, Personnel Assembly and Accountability.
- 3.1.2 Inform the Emergency Director of unaccounted for personnel.

3.2 Emergency Director shall:

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

3.3 Bechtel/Subcontractor (Unit 2) Personnel shall:

- 3.3.1 Evacuate in accordance with Bechtel Evacuation Procedures, using personal vehicle to leave the site.

3.4 Non-Essential Unit 1 personnel shall:

- 3.4.1 Exit the protected area through the Administration Guard House or Technical Support Center Guard House by depositing security badges and dosimetry into containers, and report to the selected offsite assembly area, using personal vehicles.
- 3.4.2 Follow vehicle evacuation routes as directed by Security personnel.

3.5 Designated Emergency Response Personnel shall:

- 3.5.1 Report to their designated assembly area in accordance with Appendix EP-110-1, Emergency Assembly Areas.

4.0 APPENDICES

None.

5.0 SUPPORTING INFORMATION

5.1 Purpose

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

5.2 Criteria For Use

5.2.1 This procedure should be implemented by the Emergency Director at his discretion or when an actual or potential radioactive release exceeds that specified as an Alert or Site Emergency levels in EP-101, Classifications of Emergencies.

The Emergency Director should consider the following when deciding to evacuate the site:

5.2.1.1 The decision to evacuate personnel as a protective action should be based on the determination that it will result in the lowest personnel exposure in comparison with other protective action options.

5.2.1.2 Consider the dose rates at the personnel assembly areas, onsite, and along evacuation routes, number of personnel onsite, and the potential for mitigating or terminating the emergency prior to personnel receiving exposures in excess of the protective action guides.

5.2.1.3 Initiate site evacuations before or after the passage of the release, and when practical, evacuation routes shall be given to lead personnel away from the path of the plume.

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 Evaluation of  
Rev. 1 Radiological Emergency Response Plans and  
Preparedness in Support of Nuclear Power  
Plants.

5.4.3 EP-252 Search and Rescue/First Aid

5.4.4 EP-101 Classification of Emergencies

- 5.4.5 EP-110 Personnel Assembly and Accountability
- 5.4.6 EP-208 Security Team
- 5.4.7 EP-254 Vehicle And Evacuee Control Group
- 5.4.8 EP-301 Operation of the Evacuation Alarm and River  
Warning System
- 5.4.9 EP-306 Evacuation of the Information Center
- 5.4.10 EP-252 First Aid/Search and Rescue Group



PHILADELPHIA ELECTRIC COMPANY  
LIMERICK GENERATING STATION  
EMERGENCY PLAN IMPLEMENTING PROCEDUREGray  
2-11-85EP-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 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.

CONTROLLED  
COPY  
VOID ON REMOVAL

PROPRIETARY



B.

C.  (Regional Office)

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 Waters.

2.2.3 If necessary, direct the Environmental Sampling Coordinator, if activated, 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 them.

3.0 ACTIONS-FOLLOW-UP

None

4.0 APPENDICES

None

PROPRIETARY

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 An actual or suspected liquid release of radioactive material with a concentration greater than 1.5N5 uCi/cc (500 times the maximum MPC for any unidentified isotope in water).
- 5.2.2 Radwaste discharge radiation monitor exceeds alarm setpoint of 1.4N4 uCi/cc.

5.3 Special Equipment

None

5.4 References

- 5.4.1 Limerick Generating Station Emergency Plan
- 5.4.2 EP-236 Obtaining 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 Waters
- 5.4.6 EROL Appendix 5.2A Radiological Dose Model-Liquid Effluents
- 5.4.7 10CFR Part 20 Appendix B



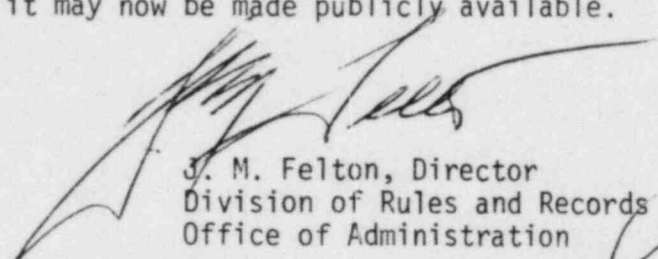
UNITED STATES  
NUCLEAR REGULATORY COMMISSION  
WASHINGTON, D. C. 20555

April 1, 1985

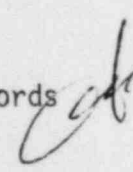
50-352/353 Limerick

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