

3864033430

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Revision 56  
05/27/86LIMERICK 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	10/26/84
EP-102	10	Unusual Event Response	03/31/86	10/26/84
EP-103	13	Alert Response	03/31/86	10/26/84
EP-104	12	Site Emergency Response	03/31/86	10/26/84
EP-105	12	General Emergency Response	03/31/86	10/26/84
EP-106	4	Written Summary Notification	04/01/85	10/26/84
EP-110	6	Personnel Assembly and Accountability	03/14/85	10/26/84
EP-120	3	Site Emergency Coordinator	04/01/85	10/26/84
EP-201	5	Technical Support Center (TSC) Activation	02/10/86	03/29/85
EP-202	5	Operations Support Center (OSC) Activation	04/01/86	04/01/86
EP-203	6	Emergency Operations Facility (EOP) Activation	05/27/86	04/01/85
EP-208		Security Team	12/12/84	10/26/84
EP-210	5	Dose Assessment Team	05/12/86	10/26/84
EP-211	2	Field Entry Group	03/25/85	10/26/84
EP-220		CANCELLED		
EP-221		CANCELLED		
EP-222		CANCELLED		
EP-230	5	Chemistry Sampling and Analysis Team	03/14/85	10/26/84
EP-231	11	Operation of Post-Accident Sampling Systems (PASS)	04/01/86	10/26/84
EP-232		CANCELLED		
EP-233	7	Retrieving and Changing Sample Filters and Cartridges from the Containment Leak Detector During Emergencies	04/01/86	10/26/84

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EMERGENCY PLAN PROCEDURE INDEX

PROCEDURE NUMBER	REV. NO.	TITLE	DATE SIGNED BY SUPER.	DATE OF LAST PERIODIC REVIEW
EP-234	7	Obtaining Containment Gas Samples from the Containment Leak Detector During Emergencies	04/01/86	10/26/84
EP-235	6	Obtaining Reactor Water Samples from Sample Sinks Following Accident Conditions	04/01/86	10/26/84
EP-236	5	Obtaining Cooling Tower Blowdown Line Water Samples Following Radioactive Liquid Release after Accident Conditions	03/14/85	10/26/84
EP-237	8	Obtaining the Iodine/ Particulate and/or Gas Samples from the North Vent Wide Range Gas Monitor (WRGM)	04/01/86	10/26/84
EP-238	5	Obtaining Liquid Radwaste Samples from Radwaste Sample Sink Following Accident Conditions	04/01/86	10/26/84
EP-240		CANCELLED		
EP-241	9	Sample Preparation and Handling of Highly Radioactive Liquid Samples	04/01/86	10/26/84
EP-242	5	Sample Preparation and Handling of Highly Radioactive Particulate Filters and Iodine Cartridges	03/28/85	10/26/84
EP-243	6	Sample Preparation and Handling of Highly Radioactive Gas Samples	04/01/86	10/26/84
EP-244	3	Offsite Analysis of High Activity Samples	03/12/85	10/26/84
EP-250	2	Personnel Safety Team	12/12/84	10/26/84
EP-251	3	Plant Survey Group	04/01/86	04/01/86

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PROCEDURE NUMBER	REV. NO.	TITLE	DATE SIGNED BY SUPER.	DATE OF LAST PERIODIC REVIEW
EP-252	6	Search and Rescue/First Aid Group	04/22/85	04/01/85
EP-253	0	Personnel Dosimetry, Bioassay, and Respiratory Protection Group	12/12/84	12/12/84
EP-254	3	Vehicle and Evacuee Control Group	02/04/85	10/26/84
EP-255	2	Vehicle Decontamination	12/12/84	10/26/84
EP-260	2	Fire and Damage Control Team	12/12/84	10/26/84
EP-261	2	Damage Repair Group	12/12/84	10/26/84
EP-272		CANCELLED		
EP-273		CANCELLED		
EP-275		CANCELLED		
EP-276	7	Fire and Damage Team Phone List	02/10/86	02/10/86
EP-277	9	Personnel Safety Team Phone List	05/12/86	01/09/86
EP-278	7	Security Team Phone List	05/12/86	02/10/86
EP-279	8	Emergency Operations Facility (EOF) Group Phone List	05/12/86	10/26/84
EP-280	9	Technical Support Center Phone List	05/12/86	02/10/86
EP-282	6	Government and Emergency Management Agencies Phone List	02/10/86	04/22/85
EP-284	6	Company Consultants and Contractors Phone List	05/12/86	02/10/86
EP-287	3	Nearby Public and Industrial Users of Downstream Water	02/11/85	10/26/84
EP-291	7	Staffing Augmentation	05/12/86	10/26/84
EP-292	9	Chemistry Sampling and Analysis Team Phone List	12/18/85	04/22/85



LIMERICK GENERATING STATION  
EMERGENCY PLAN PROCEDURE INDEX

PROCEDURE NUMBER	REV. NO.	TITLE	DATE SIGNED BY SUPER.	DATE OF LAST PERIODIC REVIEW
EP-294	9	Dose Assessment Team Phone List	05/27/86	01/09/86
EP-301	1	Operating the Evacuation Alarm and River Warning System	12/12/84	10/26/84
EP-303	3	Local Evacuation	12/12/84	12/12/84
EP-304	3	Partial Plant Evacuation	12/12/84	10/26/84
EP-305	5	Site Evacuation	03/25/85	10/26/84
EP-306	3	Evacuation of the Information Center	02/10/86	10/26/84
EP-307	2	Reception and Orientation of Support Personnel	12/12/84	10/26/84
EP-312	5	Radioactive Liquid Release	01/09/86	01/09/86
EP-313	2	Distribution of Thyroid Blocking Tablets	12/12/84	10/26/84
EP-314	1	Emergency Radiation Exposure Guidelines and Controls	03/29/85	12/06/84
EP-315	7	Calculation of Offsite Doses During a Radiological Emergency Using RMMS in the Manual Mode	03/25/86	01/09/86
EP-316	4	Cumulative Population and Near Real-Time Emergency Dose Calculations for Airborne Releases Manual Method	02/10/86	02/10/86
EP-317	3	Determination of Protective Action Recommendations	03/25/85	10/26/84
EP-318	2	Liquid Release Dose Calculations Method for Drinking Water	04/01/85	04/01/85
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	10/26/84
EP-330	4	Emergency Response Facility Habitability	03/14/85	10/26/84



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PROCEDURE NUMBER	REV. NO.	TITLE	DATE SIGNED BY SUPER.	DATE OF LAST PERIODIC REVIEW
EP-333	1	Adjustment of Wide Range Gas Monitor Conversion Factors	05/08/85	05/08/85
EP-401	3	Entry for Emergency Repair and Operations	04/01/86	04/01/86
EP-410	3	Recovery Phase Implementation	03/29/85	10/26/84
EP-500	2	Review and Revision of Emergency Plan	12/12/84	10/26/84

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EP-294  
Rev. 9  
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5/27/86

PHILADELPHIA ELECTRIC COMPANY  
LIMERICK GENERATING STATION  
EMERGENCY PLAN IMPLEMENTING PROCEDURE

EP-294      DOSE ASSESSMENT TEAM PHONE LIST

1.0 PARTICIPANTS

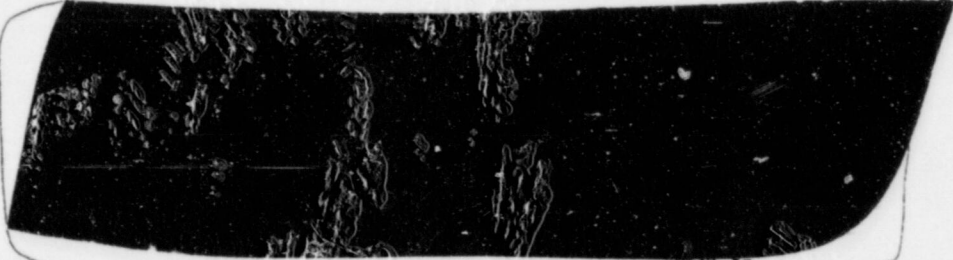
- 1.1 Dose Assessment Team Leader shall be responsible to call in group members and the Field Survey Group Leader.
- 1.2 Field Survey Group Leader shall be responsible to obtain group members.

2.0 ACTIONS - IMMEDIATE

- 2.1 Dose Assessment Team Leader shall call people from the following list until appropriate positions are filled.

2.1.1 DOSE ASSESSMENT TEAM LEADER (ONE)

<u>Name</u>	<u>Home Phone</u>	<u>Work Phone</u>
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2.1.2 DOSE ASSESSMENT GROUP MEMBERS (3 MINIMUM)

<u>Name</u>	<u>Home Phone</u>	<u>Work Phone</u>
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2.1.3 FIELD SURVEY GROUP LEADER (ONE)

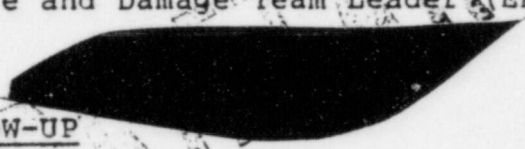
<u>Name</u>	<u>Home Phone</u>	<u>Work Phone</u>
		

2.2 The field survey group leader shall obtain people from the Personnel Safety Team Leader until appropriate positions are filled (4 minimum).

2.2.1 The Field Survey Group Leader shall call the following individual(s) to obtain vehicles for the Field Survey Group (4 minimum).


<u>Name</u>	<u>Home Phone</u>	<u>Work Phone</u>
		

2.2.2 The Field Survey Group Leader shall contact the Fire and Damage Team Leader (EP 276) for drivers.



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 the Dose Assessment Team.

5.2 Criteria for Use

This procedure can be used when the Dose Assessment Team is to be activated or additional people are needed.



5.3 Special Equipment

None.

5.4 References

None.


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5/27/86

PHILADELPHIA ELECTRIC COMPANY  
LIMERICK GENERATING STATION  
EMERGENCY PLAN IMPLEMENTING PROCEDURE

EP-203 EMERGENCY OPERATIONS FACILITY (EOF) ACTIVATION

1.0 PARTICIPANTS

- 1.1 First person arriving at the EOF shall activate the EOF by performing the necessary steps in this procedure.
  - 1.2 Communicator for the Site Emergency Coordinator shall man communication lines and log information.
  - 1.3 Site Emergency Coordinator shall direct operation at the EOF.
  - 1.4 Status Board Recorders shall obtain and post information.
- 

2.0 ACTIONS-IMMEDIATE

EOF COMMUNICATOR IS ACTIVATED BY EP-291, STAFFING AUGMENTATION. ADDITIONAL COMMUNICATORS, STATUS BOARD KEEPERS AND DATA DISPLAY OPERATOR ARE ACTIVATED THROUGH EP-279, EMERGENCY OPERATIONS FACILITY PHONE LIST. THE EOF STAFF ARE ACTIVATED THROUGH THE CORPORATE CALL-OUT LISTS.

- 2.1 First person arriving shall:

- 2.1.1 Obtain keys, if necessary, for EOF from the Plymouth Dispatch office and open EOF.

- 2.1.2 Perform appendices EP-203-9 and EP-203-10.

- 2.1.3 Assign the first available person to the entrance of the EOF to control access until security arrives and establish a log for the purposes of personnel accountability.

**CONTROLLED  
COPY  
VALID ONLY WHEN RED**

ENSURE THAT PERSONNEL SIGN IN AND OUT AND THAT ONLY INDIVIDUALS ON ACCESS LIST OR CLEARED BY PERSONNEL PRESENT ARE ALLOWED TO ENTER THE EOF. ACCESS LIST IS IN CABINET NUMBER 3.

- 2.1.4 Assign an individual (as soon as one is available), the duties of the Site Emergency Coordinator Communicator. The Communicator shall perform the steps outlined in Section 2.2.

- 2.2 Communicator for the Site Emergency Coordinator shall:

- 2.2.1 Use EP-279, Emergency Operations Facility Group Phone List to call in additional status board keepers, communicators or data display operators.

- 2.2.2 Inform the Site Emergency Coordinator when the above communications capabilities have been verified or of any problems.

- 2.2.3 As personnel arrive, man communications lines on the Site Emergency Coordinator's desk and maintain a communications log containing information received from and sent to other facilities and other organizations.

ENSURE ALL PERTINENT ACTIONS AND NOTIFICATIONS ARE LOGGED.

- 2.3 Security personnel shall:

- 2.3.1 Post themselves at the front of the EOF.

- 2.3.2 Control access to the EOF by allowing access to those personnel who exhibit badges listed below.

Philadelphia Electric Identification Cards/  
Bechtel Construction Site Badge

Bureau of Radiation Protection Identification Cards

Pennsylvania Emergency Management Agency Cards

Nuclear Regulatory Commission Identification Cards

Federal Emergency Management Agency Identification Cards

City of Philadelphia



All other personnel requesting access should be cleared through the Site Emergency Coordinator, Emergency Preparedness Coordinator, or the Planning and Scheduling Coordinator.

### 3.0 ACTIONS FOLLOW-UP

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

#### 3.1 Site Emergency Coordinator shall:

- 3.1.1 Assign personnel to be status board keepers and direct them to perform the steps outlined in section 3.3 of this procedure.
  - a. LGS Plant Parameter Status Board
  - b. Plant Parameter Trends Board
  - c. Event Chronology Status Board
  - d. Staff Assignment Status Board
  - e. Headquarters Support Request Status Board
  - f. Offsite Communications Status Board
  - g. Dose Assessment Status Board
  - h. Field Survey Group Status Board
- 3.1.2 Ensure that an individual has been assigned as the Site Emergency Coordinator's Communicator.
- 3.1.3 Inform the Technical Support Center when the Emergency Operations Facility is operational, manned and in control of its designated responsibilities.
- 3.1.4 Brief the EOF Staff periodically on the status of the emergency and pertinent plant conditions.
- 3.1.5 Direct transmission of all Status Board information to appropriate Headquarters Emergency Support Center Status Board Recorders.
- 3.1.6 Perform actions in EP-120, Site Emergency Coordinator.

3.2 Dose Assessment Team Leader shall:

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

3.3 Status Board Recorders shall:

- 3.3.1 Fill in their assigned status board(s).

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

- a. Appendix EP-203-1, LGS Plant Parameter Status Board
- b. Appendix EP-203-2, Plant Parameter Trends Status Board
- c. Appendix EP-203-3, Event Chronology Status Board
- d. Appendix EP-203-4, Staff Assignment Status Board
- e. Appendix EP-203-5, Headquarters Support Requests Status Board
- f. Appendix EP-203-6, Offsite Communications Status Board
- g. Appendix EP-203-7, Dose Assessment Status Board
- h. Appendix EP-203-8, Field Survey Group Status Board

- 3.3.2 Contact the following individuals for the various Status information.

- a. TSC Plant Parameter Status Board Recorder for Plant Status information.
- b. TSC Event Chronology Status Board Recorder for Event Chronology information.
- c. Site Emergency Coordinator's Communicator for Staff Assignment Information and Headquarters Support Requests.

- d. Emergency Director's Communicator Site  
Emergency Coordinator's Communicator or Control  
Room Communicator for offsite communication  
information.
  - e. Field Survey Group Leader for field survey  
data.
  - f. Dose Assessment Team Leader for radiological  
data.
- 3.3.3 Post appropriate information on assigned status  
board and maintain a log of all status board  
entries.
- 3.3.4 Review and update the status boards as changes in  
plant conditions or information warrant.
- 3.3.5 Inform the appropriate Coordinator, Team or Group  
Leader as significant changes in status board  
information are noted.

#### 4.0 APPENDICES

- 4.1 EP-203-1 LGS Plant Parameter Status Board
- 4.2 EP-203-2 Plant Parameter Trends Board
- 4.3 EP-203-3 Event Chronology Status Board
- 4.4 EP-203-4 Staff Assignment Status Board
- 4.5 EP-203-5 Headquarters Support Request Status Board
- 4.6 EP-203-6 Offsite Communications Status Board
- 4.7 EP-203-7 Dose Assessment Status Board
- 4.8 EP-203-8 Field Survey Group Status Board
- 4.9 EP-203-9 EOF Equipment Activation
- 4.10 EP-203-10 EOF Phone Check List



5.0 SUPPORTING INFORMATION

5.1 Purpose

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

5.2 Criteria for Use

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 Emergency Director.

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

5.4.3 NUREG 0696 - Functional Criteria for Emergency  
Response Facilities.

5.4.4 EP-279 - Emergency Operations Facility Group Phone  
List

5.4.5 EP-210 - Dose Assessment Team

5.4.6 EP-120 - Site Emergency Coordinator

APPENDIX EP-203-1

**LGS PLANT PARAMETER STATUS - UNIT \_\_\_\_\_**

SHT 1 of 3

**REACTOR PARAMETER**      **TIME** \_\_\_\_\_      **CORE PLATE**  
**POWER** \_\_\_\_\_ %      **DP** \_\_\_\_\_ psig

**LEVEL** \_\_\_\_\_ inches

**PRESSURE** \_\_\_\_\_ psig

**REACTIVITY CONTROL**

☐ OF RODS NOT INSERTED PAST 06

SSLC	INJ	AVAIL	UNAVAIL	REASON
A				
B				
C				

SSLC TANK LEVEL \_\_\_\_\_ GAL.

**LEVEL CONTROL**

SYSTEM	INJ	AVAIL	UNAVAIL	REASON
FW	A			
	B			
	C			
CRD	A			
	B			
HPCI				
RCIC				
COND	A			
	B			
	C			
CS	A			
	B			
	C			
	D			
LPCI	A			
	B			
	C			
	D			
RHRSW	A			
	B			
	C			
	D			
COND TRANS				
REFUEL TRANS				
SSLC				
FIRE WATER				

**PRESSURE CONTROL**

☐ TUR BYPASS VALVES OPEN \_\_\_\_\_

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

**STATUS**

	ON	OFF
RECIRC A		
B		
ESW A		
B		
C		
D		

**COMMENTS**

APPENDIX EP-203-1 (CONT'D)

SHT 2 of 2

**CONTAINMENT PARAMETER**

SUPPRESSION POOL TEMP \_\_\_\_\_ °F  
 DRYWELL TEMP \_\_\_\_\_ °F  
 DRYWELL PRESSURE \_\_\_\_\_ psig  
 SUPPRESSION POOL LEVEL \_\_\_\_\_ ft  
 CONTAINMENT \_\_\_\_\_ % O<sub>2</sub> \_\_\_\_\_ % H<sub>2</sub>

**COMMENTS**

--

**CONTAINMENT CONTROL**

RHR	SUP POOL COOL	SUP POOL SPRAY	D/W SPRAY	S/D COOL	AVAIL	UNAVAIL	REASON
A							
B							
C							
D							

RHRBW	ON	AVAIL	UNAVAIL	REASON
A				
B				
C				
D				

ISOLATIONS	ISOLATED	EXCEPTIONS
I MSIV		
II RHR		
III RWCU		
IV HPCI		
V RCIG		
VI PC PURGE & SAMPLE		
VII PCIG		
VIII PC NUC PROCESS		

SQTS	ON	AVAIL	UNAVAIL	REASON
FAN A				
B				
TRAIN A				
B				

**CONTAINMENT H<sub>2</sub> RECOMBINERS**

	ON	AVAIL	UNAVAIL	REASON
A				
B				







## EVENT CHRONOLOGY STATUS BOARD

[illegible]



APPENDIX EP-203-4

STAFF ASSIGNMENT STATUS BOARD			
TITLE	NAME	LOCATION	BADGENO
SITE EMERGENCY COORDINATOR			
SEC COMMUNICATOR			
DOSE ASSESSMENT TEAM LEADER			
FIELD SURVEY GROUP LEADER			
HEALTH PHYSICS/CHEMISTRY COORDINATOR			
PROCEDURE SUPPORT COORDINATOR			
PECO SECURITY			
EMERGENCY PREPAREDNESS COORDINATOR			
CORP. COMMUNICATION LIAISON			
PLANNING AND SCHEDULING COORDINATOR			
ELECTRICAL ENGINEERING LIAISON			
MECHANICAL ENGINEERING LIAISON			
EMERGENCY SUPPORT OFFICER			
EMERGENCY DIRECTOR			
SHIFT SUPERINTENDENT			
SHIFT SUPERVISOR			

APPENDIX EP-203-5

HEADQUARTERS SUPPORT REQUEST STATUS BOARD  
DATE

[illegible]

[illegible]



APPENDIX EP-203-7

DATE: _____		BOARD UPDATE TIME _____ AM _____ PM		COMMENTS:					
RELEASE _____ OCCURRING _____ ANTICIPATED _____ WHEN _____ AM _____ PM									
LOCATION OF RELEASE: _____ NORTH STACK _____ U1 SOUTH STACK _____ OTHER _____									
ESTIMATED DURATION ON RELEASE _____ HRS. _____ TIME OF SCRAM: _____									
RELEASE MONITORED _____ YES _____ NO _____ EQTS EFFICIENCY _____									
NOBLE GAS	NORTH VENT	U1 SOUTH VENT	U2 SOUTH VENT	DESCRIBE					
	_____ UCI/CC _____ UCI/SEC	_____ UCI/CC	_____ UCI/CC						
	_____ UCI/CC	_____ UCI/CC	_____ UCI/CC						
IODME	_____ UCI/CC	_____ UCI/CC	_____ UCI/CC						
FLOW RATE	_____ CFM	_____ CFM	_____ CFM						
WIND SPEED _____ MPH _____ DIRECTION (FROM) _____									
STABILITY CLASS _____ AFFECTED SECTOR(S) _____									
CENTERLINE DOSE PROJECTION	PLUME ARRIVAL TIME	CALCULATED DOSE RATE		FIELD DOSE RATE		INTEGRATED DOSE (BASED ON RELEASE DURATION)		TIME TO REACH PAG	
		W.B.	THY.	W.B.	THY.	W.B.	THY.	W.B.	THY.
SITE BOUNDARY									
2.0 MILES									
5.0 MILES									
10.0 MILES									
PEAK									
RECOMMENDED PROTECTIVE ACTION									

## FIELD SURVEY GROUP STATUS BOARD

[illegible]

APPENDIX EP-203-9  
EOF EQUIPMENT ACTIVATION

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









APPENDIX EP-203-10 (CONT'D)  
EOF PHONE CHECKOFF LIST



RECEIVED  
JUN 08 1986

DATE: 6-2-86

R. A. Kankus

TO: Dir Emerg. Prep. 37-1

The following procedures have been cancelled. Please remove these procedures from your controlled procedure book and return this sheet to Administrative Services, LGS Mail Code 230, when complete.

Thank you for your cooperation.

Administrative Services  
Limerick Generating Station

Signature R. A. Kankus

Completion Date 6-9-86

Procedure No.

EP-272

EP-273



UNITED STATES  
NUCLEAR REGULATORY COMMISSION

WASHINGTON, D. C. 20555

July 23, 1986

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.

*Donnie H. Grimsley*

Donnie H. Grimsley, Director  
Division of Rules and Records  
Office of Administration

Attachment: As stated