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10CFR50, Appendix E

December 7, 2001

U. S. Nuclear Regulatory Commission
ATTN: Document Control Desk
Washington, DC 20555-0001

Subject: Limerick Generating Station, Units 1 & 2
Facility Operating License Nos. NPF-39 and NPF-85
NRC Docket Nos. 50-352 and 50-353

ERP-200, Revision 15, "Emergency Director (ED) Response"
ERP-200-1, Revision 12, "Emergency Notification Message Form"
ERP-140, Revision 10, "Staffing Augmentation"
ERP-120, Revision 7, "Station Evacuations"

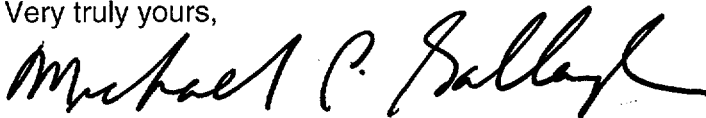
Dear Sir/Madam:

Enclosed are the subject Emergency Response Procedures (ERPs) for Limerick Generating Station (LGS), Units 1 and 2. These procedures are required to be submitted within thirty (30) days of their revision in accordance with 10CFR50, Appendix E, and 10CFR50.4.

Also, enclosed is a copy of a computer generated report index identifying the latest revisions of the LGS ERPs.

If you have any questions or require additional information, please do not hesitate to contact us.

Very truly yours,



M. P. Gallagher
Director - Licensing & Regulatory Affairs
Mid-Atlantic Regional Operating Group

Attachments

cc: H. J. Miller, Administrator, Region I, USNRC (2 copies)
A. L. Burritt, USNRC Senior Resident Inspector, LGS

A045

ATTACHMENT 1

LIMERICK GENERATING STATION, UNITS 1 & 2

**Docket Nos. 50-352
50-353**

**License Nos. NPF-39
NPF-85**

EMERGENCY RESPONSE PROCEDURES

**ERP-200, "Emergency Director (ED) Response"
Revision 15**

**ERP-200-1, "Emergency Notification Message Form"
Revision 12**

**ERP-140, "Staffing Augmentation"
Revision 10**

**ERP-120, "Station Evacuations"
Revision 7**

Effective Date: 12/07/01

ERP-200
Rev. 15
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EXELON NUCLEAR
LIMERICK GENERATING STATION
EMERGENCY RESPONSE PROCEDURE

ERP-200 EMERGENCY DIRECTOR (ED) RESPONSE

1.0 RESPONSIBILITIES

- 1.1 Shift Manager OR designated alternate assumes the title of Emergency Director until relieved.
- 1.2 The on-call TSC Emergency Director shall: (Ref 6.5.4)
- 1.2.1 Contact the shift manager and obtain situation briefing.
- 1.2.2 Respond to the Main Control Room or TSC as dictated by plant conditions or emergency classification.
- 1.2.3 Relieve acting Emergency Director.
- 1.2.4 Direct actions on-site during the emergency.
- 1.2.5 Activate appropriate positions of the emergency response organization as indicated by existing and anticipated conditions.
- 1.2.6 Direct assessment actions and monitor results.
- 1.2.7 Implement procedure.

2.0 INITIAL ACTIONS

2.1 Unusual Event:

NOTE

IF A GENERAL EMERGENCY IS DECLARED PRIOR TO TECHNICAL SUPPORT CENTER(TSC) OR EMERGENCY OPERATIONS FACILITY EOF ACTIVATION, THE SHIFT MANAGER (INTERIM EMERGENCY DIRECTOR) DELIVERS THE PROTECTIVE ACTION RECOMMENDATION (PAR) TO THE STATE AND COUNTIES PER APPENDIX ERP-200-1, FORM 1 "EMERGENCY NOTIFICATION MESSAGE FORM" SECTION 5.

- 2.1.1 Shift Manager shall ensure Emergency Notifications and staffing augmentation, if required, are completed by performing the following: (Ref. 6.5.7).
1. Complete Appendix ERP-200-1
 2. Notify the Secondary Alarm Station (SAS) operator, extension 5164 (Prelude extension 181), of emergency condition.

3. Fax the completed form to the SAS operator (Fax Extension 2029), **THEN** forward to the designated NRC communicator.

NOTE

The Shift Manager, as Emergency Director, will initiate an ERO call out for an Unusual Event declaration based on a credible Security Threat. The ERO call out will involve the TSC, OSC, EOF and ENC. Transfer of Command and Control responsibilities from the Control Room to the TSC is NOT required for an Unusual Event, and therefore, will be at the discretion of the Shift Manager and TSC Emergency Director.

4. Evaluate the need for additional ERO staffing to support assessment and mitigation of event and instruct SAS Operator (extension 5164 or Prelude 181) to perform staffing augmentation per ERP-140, "Staffing Augmentation," as deemed appropriate.
5. **IF** dose assessment is required **THEN** contact Peach Bottom Main Control Room Shift Management (81-231, 807:4687 or 807:4688) and request Shift Dose Assessment Personnel (SDAP) to perform dose projections.
6. Fax a completed "Dose Assessment Data Sheet" (ERP-200-2) to the Peach Bottom SDAP at 807:4793.

2.2 Alert or Higher Classification (Ref 6.5.7).

2.2.1 Shift Manager shall ensure emergency notifications and staffing augmentation are completed by performing the following (Ref 6.5.7):

1. Immediately upon verification of Alert or higher classification instruct SAS Operator (extension 5164 or Prelude 181) to perform staffing augmentation per ERP-140, "Staffing Augmentation".
2. Complete Appendix ERP-200-1.
3. Fax the completed form to the SAS operator (Fax extension 2029), **THEN** forward to the designated NRC communicator
4. **IF** dose assessment is required **THEN** contact Peach Bottom Main Control Room Shift Management (81-231, 807:4687 or 807:4688) and request Shift Dose Assessment Personnel to perform dose projections.
5. Fax a completed "Dose Assessment Data Sheet" (ERP-200-2) to the Peach Bottom SDAP at 807:4793.

2.3 Emergency Director (TSC) shall:

NOTE

THE POSITION OF ASSISTANT EMERGENCY DIRECTOR IS STAFFED ON AN "AS AVAILABLE" BASIS. IF AN ASSISTANT EMERGENCY DIRECTOR IS UTILIZED, THE EMERGENCY DIRECTOR SHALL DESIGNATE THOSE FUNCTIONS FOR WHICH THE ASSISTANT IS RESPONSIBLE AND ENSURE THAT SHIFT MANAGEMENT, TSC STAFF, THE OSC AND THE EMERGENCY RESPONSE MANAGER ARE AWARE OF THE ASSISTANT'S RESPONSIBILITIES.
(Ref. 6.5.2)

2.3.1 **IF** relieving the Interim Emergency Director, turnover should be performed using Appendix ERP-200-1, Form 8, "Emergency Director Turnover/Briefing Form".

2.3.2 Complete ERP-200-1, Form 6 "Emergency Director Check-Off List".

NOTE

IF THE GENERAL EMERGENCY IS DECLARED **THEN** EMERGENCY DIRECTOR HAS THE RESPONSIBILITY TO MAKE PROTECTIVE ACTION RECOMMENDATIONS (PAR) TO THE SENIOR STATE OFFICIAL UNTIL RELIEVED BY EMERGENCY RESPONSE MANAGER.

2.3.3 For Conditions at or near a General Emergency

1. Discuss Protective Action Recommendations with Dose Assessment Coordinator.
2. Evaluate plant conditions, i.e. fuel damage, coolant boundary, containment integrity, for additional input into Protective Action Recommendations.

2.3.4 **IF** TSC becomes uninhabitable, **THEN**

1. Coordinate **AND** direct TSC transfer to Main Control Room.
 - a. Emergency Director
 - b. Health Physics Team Leader
 - c. Technical Support Group Leader
 - d. Up to 5 others designated by the Emergency Director
 - e. All others per ERP-500, "Security Team"

2.3.5 **FOR** a Site Area Emergency or higher, **OR** if it would result in lower site personnel exposure, at Alert, **THEN** prepare for Site Evacuation per ERP-120 "Station Evacuations".

2.4 The Shift Manager shall:

2.4.1 In the event of a security computer failure, initiate Appendix ERP-200-1 Form 9, "Main Control Room Accountability Log". (The Security Team Leader shall initiate the accountability log for the Technical Support Center.)

3.0 CONTINUING ACTIONS

Refer to Appendix ERP-200-1, Form 6 "Emergency Director Check-Off List.

4.0 FINAL CONDITIONS

4.1 Emergency director shall:

4.1.1 Participate in Recovery per ERP-C-1900, "Recovery Phase Implementation" with Emergency Response Manager.

4.1.2 Reduce emergency response organization, as appropriate.

4.1.3 Phase out TSC operations.

5.0 ATTACHMENTS AND APPENDICES (issued as separate document)

5.1 ERP-200-1 Emergency Director Forms

5.1.1 Form 1, Emergency Notification Message Form

5.1.2 Form 2, Unusual Event - Station Announcements

5.1.3 Form 3, Alert - Station Announcements

5.1.4 Form 4, Site Area Emergency - Station Announcements

5.1.5 Form 5, General Emergency - Station Announcements

5.1.6 Form 6, Emergency Director Check-Off List

5.1.7 Form 7, Unaffected Unit Operations

5.1.8 Form 8, Emergency Director Turnover/Briefing Form

5.1.9 Form 9, Main Control Room Accountability Log

5.1.10 Form 10, TSC ERO Activation Checklist

5.1.11 Form 11, Minimum Staffing Positions

5.2 ERP-200-2 Dose Assessment Data Sheet

6.0 SUPPORTING INFORMATION

6.1 Purpose

6.1.1 Provide guidelines for Emergency Director response to an emergency classification.

6.2 Criteria For Use

6.2.1 Implemented when an event has been classified per ERP-101, "Classification of Emergencies".

6.3 Special Equipment

None

6.4 References

6.4.1 Nuclear Emergency Plan

6.4.2 NUREG 0654, Rev. 2 Criteria for Preparations and Evaluation of Radiological Emergency Response Plans in Support of Nuclear Power Plants

6.4.3 ERP-101, Classification of Emergencies

6.4.4 ERP-110, Emergency Notifications

6.4.5 ERP-120, Station Evacuations

6.4.6 ERP-140, Staffing Augmentation

6.4.7 ERP-230, Operations Support Center (OSC) Director

6.4.8 ERP-300, Dose Assessment Team

6.4.9 ERP-325, Shift Dose Assessment Personnel (PBAPS)

6.4.10 ERP-400, Chemistry Team

6.4.11 ERP-500, Security Team

6.4.12 ERP-600, Health Physics Team

6.4.13 ERP-630, Vehicle and Evacuee Control Group

6.4.14 ERP-800, Maintenance Team

6.4.15 ERP-C-1000, Emergency Operations Facility (EOF)
Activation/Deactivation

6.4.16 ERP-C-1200, Emergency Response Manager

6.4.17 ERP-C-1900, Recovery Phase Implementation

6.4.18 SE-11, Medical Emergency

- 6.4.19 UFSAR Section 1.13.2
- 6.4.20 Severe Accident Management Plans
- 6.4.21 Technical Support Guidelines
- 6.4.22 NEI 91-04 Severe Accident Issue Closure Guidelines

- 6.5 Commitment Annotation
- 6.5.1 A/R 0412127 Eval. NBR. 17 - TMI Action Plan Item I.A.1.2 (Entire Procedure ERP-200 and Appendix ERP-200-1, Form 6)
- 6.5.2 A/R A0801081 NBR. 01 (Inspection Report 50-352/353-93-19/19-Section 2.3 NOTE)
- 6.5.3 EP Action Item Q0004510 (Appendix ERP-200-1, Form 6, Page 2 of 5)
- 6.5.4 EP Action Item Q0004909 (Step 1.2)
- 6.5.5 EP Action Item Q0004907 (Appendix ERP-200-1, Form 6, Page 3 of 5)
- 6.5.6 PPIS A/R A0860443 EAL 1 (Appendix ERP-200-1, Forms 4 and 5)
- | 6.5.7 EP Action Item Q0005493 (2.1.1, 2.2.1)
- 6.5.8 EP Action Item Q0005405 (Appendix ERP-200-1, Form 6).

Effective Date: 12/07/01

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APPENDIX ERP-200-1
EMERGENCY DIRECTOR FORMS

Form 1: EMERGENCY NOTIFICATION MESSAGE FORM

☐ This is a Drill ☐ This is not a Drill

1. This is : _____ at Limerick Generating Station
My phone number is: _____. The time is _____

2. EMERGENCY CLASSIFICATION:

☐ Unusual Event ☐ Site Area Emergency

☐ Alert ☐ General Emergency

☐ The Event has been Terminated

UNIT: _____ TIME: _____ DATE: _____

THIS REPRESENTS A/AN: ☐ Initial Declaration }
☐ Escalation }
☐ No Change } IN CLASSIFICATION STATUS
☐ Reduction }

3. BRIEF NON-TECHNICAL DESCRIPTION OF THE EVENT:

Relay this information to State/Local Agencies only

4. THERE IS: ☐ No }
☐ An Airborne } NON-ROUTINE RADIOLOGICAL RELEASE
☐ A Liquid } IN PROGRESS

5. WHEN GENERAL EMERGENCY IS THE INITIAL EVENT, PROVIDE PROTECTIVE ACTION
RECOMMENDATION BELOW: (ONLY THE EMERGENCY DIRECTOR SHALL FURNISH THIS INFORMATION
TO THE STATE AND COUNTIES)

6. WIND DIRECTION IS FROM: _____ WIND SPEED IS: _____

☐ This is a Drill ☐ This is not a Drill
SHIFT MANAGER/ED APPROVAL: _____ (Ref. 6.5.2)

APPENDIX ERP-200-1

Form 2: UNUSUAL EVENT - STATION ANNOUNCEMENTS

NOTE: FOR ALTERNATIVE INSTRUCTIONS, CIRCLE THE APPROPRIATE
PHRASE(S) TO BE ANNOUNCED.

DECLARATION MESSAGE

ATTENTION ALL PERSONNEL. ATTENTION ALL PERSONNEL.

THIS (IS) (IS NOT) A DRILL. REPEAT, THIS (IS) (IS NOT) A DRILL.

THE EMERGENCY DIRECTOR HAS DECLARED A UNUSUAL EVENT DUE TO

(REASON)

THIS (IS) (IS NOT) A DRILL. REPEAT, THIS (IS) (IS NOT) A DRILL.

DE-ESCALATION MESSAGE

ATTENTION ALL PERSONNEL. ATTENTION ALL PERSONNEL.

THIS (IS) (IS NOT) A DRILL. REPEAT, THIS (IS) (IS NOT) A DRILL.

THE UNUSUAL EVENT CLASSIFICATION HAS BEEN TERMINATED.

THIS (IS) (IS NOT) A DRILL. REPEAT, THIS (IS) (IS NOT) A DRILL.

APPENDIX ERP-200-1

Form 3: ALERT - STATION ANNOUNCEMENTS

NOTE: FOR ALTERNATIVE INSTRUCTIONS, CIRCLE THE APPROPRIATE PHRASE(S) TO BE ANNOUNCED.

DECLARATION MESSAGE

ATTENTION ALL PERSONNEL. ATTENTION ALL PERSONNEL.

THIS (IS) (IS NOT) A DRILL. REPEAT, THIS (IS) (IS NOT) A DRILL.

THE EMERGENCY DIRECTOR HAS DECLARED AN ALERT DUE TO

(REASON)

ALL MEMBERS OF THE EMERGENCY RESPONSE ORGANIZATION REPORT TO YOUR EMERGENCY ASSEMBLY AREA.

ALL NON-ESSENTIAL PERSONNEL AND VISITORS AWAIT FURTHER PUBLIC ADDRESS INSTRUCTIONS.

THIS (IS) (IS NOT) A DRILL. REPEAT, THIS (IS) (IS NOT) A DRILL.

DE-ESCALATION MESSAGE

ATTENTION ALL PERSONNEL. ATTENTION ALL PERSONNEL.

THIS (IS) (IS NOT) A DRILL. REPEAT, THIS (IS) (IS NOT) A DRILL.

THE ALERT CLASSIFICATION HAS BEEN (DE-ESCALATED TO AN UNUSUAL EVENT) (TERMINATED).

ALL PERSONNEL SHALL AWAIT INSTRUCTIONS FROM THEIR TEAM LEADERS OR SUPERVISORS.

THIS (IS) (IS NOT) A DRILL. REPEAT, THIS (IS) (IS NOT) A DRILL.

APPENDIX ERP-200-1

Form 4: SITE AREA EMERGENCY - STATION ANNOUNCEMENTS

NOTE: FOR ALTERNATIVE INSTRUCTIONS, CIRCLE THE APPROPRIATE PHRASE(S) TO BE ANNOUNCED.

DECLARATION MESSAGE

ATTENTION ALL PERSONNEL. ATTENTION ALL PERSONNEL.

THIS (IS) (IS NOT) A DRILL. REPEAT, THIS (IS) (IS NOT) A DRILL.

THE EMERGENCY DIRECTOR HAS DECLARED A SITE AREA EMERGENCY DUE TO

(REASON)

ALL MEMBERS OF THE EMERGENCY RESPONSE ORGANIZATION REPORT TO YOUR EMERGENCY ASSEMBLY AREA.

(IF SITE EVACUATION PREPARATION HAS ALREADY OCCURRED, DO NOT ANNOUNCE THE NEXT LINE.) ALL NON-ESSENTIAL PERSONNEL PREPARE FOR A SITE EVACUATION.

ALL VISITORS WILL REPORT WITH THEIR ESCORTS TO THE TECHNICAL SUPPORT CENTER EXIT. (Ref 6.5.6)

THIS (IS) (IS NOT) A DRILL. REPEAT, THIS (IS) (IS NOT) A DRILL.

DE-ESCALATION MESSAGE

ATTENTION ALL PERSONNEL. ATTENTION ALL PERSONNEL.

THIS (IS) (IS NOT) A DRILL. REPEAT, THIS (IS) (IS NOT) A DRILL.

THE SITE AREA EMERGENCY CLASSIFICATION HAS BEEN (DE-ESCALATED TO AN UNUSUAL EVENT/ALERT) (TERMINATED).

ALL PERSONNEL SHALL AWAIT INSTRUCTIONS FROM THEIR TEAM LEADERS OR SUPERVISORS.

THIS (IS) (IS NOT) A DRILL. REPEAT, THIS (IS) (IS NOT) A DRILL.

APPENDIX ERP-200-1

Form 5: GENERAL EMERGENCY - STATION ANNOUNCEMENTS

NOTE: FOR ALTERNATIVE INSTRUCTIONS, CIRCLE THE APPROPRIATE PHRASE(S) TO BE ANNOUNCED.

DECLARATION MESSAGE

ATTENTION ALL PERSONNEL. ATTENTION ALL PERSONNEL.

THIS (IS) (IS NOT) A DRILL. REPEAT, THIS (IS) (IS NOT) A DRILL.

THE EMERGENCY DIRECTOR HAS DECLARED A GENERAL EMERGENCY DUE TO

(REASON)

ALL MEMBERS OF THE EMERGENCY RESPONSE ORGANIZATION REPORT TO YOUR EMERGENCY ASSEMBLY AREA.

(IF SITE EVACUATION PREPARATION HAS ALREADY OCCURRED, DO NOT ANNOUNCE THE NEXT LINE.) ALL NON-ESSENTIAL PERSONNEL PREPARE FOR A SITE EVACUATION.

ALL VISITORS WILL REPORT WITH THEIR ESCORTS TO THE TECHNICAL SUPPORT CENTER EXIT. (Ref 6.5.6)

THIS (IS) (IS NOT) A DRILL. REPEAT, THIS (IS) (IS NOT) A DRILL.

DE-ESCALATION MESSAGE

ATTENTION ALL PERSONNEL. ATTENTION ALL PERSONNEL.

THIS (IS) (IS NOT) A DRILL. REPEAT, THIS (IS) (IS NOT) A DRILL.

THE GENERAL EMERGENCY CLASSIFICATION HAS BEEN (DE-ESCALATED TO AN UNUSUAL EVENT/ALERT/SITE AREA EMERGENCY) (TERMINATED).

ALL PERSONNEL SHALL AWAIT INSTRUCTIONS FROM THEIR TEAM LEADERS OR SUPERVISORS.

THIS (IS) (IS NOT) A DRILL. REPEAT, THIS (IS) (IS NOT) A DRILL.

Appendix ERP-200-1

Form 6: EMERGENCY DIRECTOR CHECK-OFF LIST

(Ref. ERP-200, Section 6.5.1)

(Page 1 of 5)

NOTE: AS EMERGENCY CLASSIFICATION ESCALATES/DE-ESCALATES,
COL WILL HELP KEEP TRACK OF COMPLETED STEPS.

ASTERISK STEPS MAY HAVE TO BE REPEATED.

MARK STEPS N/A IF NOT NECESSARY TO PERFORM.

NOTE: TITLE 10 OF THE CODE OF FEDERAL REGULATIONS, SECTION 50.54
(X) AND (Y) PERMIT DEVIATION FROM A LICENSE CONDITION OR
COMMITMENT, IN AN EMERGENCY, WHEN THIS ACTION IS NEEDED
IMMEDIATELY TO PROTECT THE PUBLIC HEALTH AND SAFETY, AND
WHEN IT IS NOT IMMEDIATELY APPARENT THAT AN ACTION
CONSISTENT WITH LICENSE CONDITIONS AND TECHNICAL
SPECIFICATIONS CAN PROVIDE ADEQUATE OR EQUIVALENT
PROTECTION. ACTIONS TAKEN IN ACCORDANCE WITH THESE SECTIONS
SHOULD BE INITIATED AND TERMINATED INDIVIDUALLY, TREATING
EACH AS A SEPARATE OCCURRENCE. A WAIVER SHALL BE APPROVED,
AS A MINIMUM BY A LICENSED SENIOR OPERATOR PRIOR TO TAKING
THE ACTION. (Ref 6.5.8)

Appendix ERP-200-1
Form 6: EMERGENCY DIRECTOR CHECK-OFF LIST
(Ref. ERP-200, Section 6.5.1)
(Page 2 of 5)

INITIAL ACTIONS	UNUSUAL EVENT	ALERT	SITE AREA	GENERAL
Implement ERP-140 Staffing Augmentation (NOTE ⁽¹⁾ : IF U.E. is due to a security event, THEN implement ERP-140.)	Opt ⁽¹⁾			
Start accident assessment log in MCR; event log in TSC (Ref. ERP-200 Sect. 6.5.3)				
Verify classification				
* Obtain wind direction and speed (NOTE: Wind direction should be reported out as "wind direction from" NOT to.)				
Consider performing analysis of release to determine isotopic mix for input into Mesorem, Jr. Obtain updates on dose projections and field survey data from DATL.				
Recommend PAR to Senior State Official(Prelude Ext. 116)	N/A	N/A	N/A	
<u>IF</u> General without prior classif. <u>THEN</u> include PAR on notification form	N/A	N/A	N/A	
If PEMA does not answer, just evacuate full EPZ	N/A	N/A	N/A	
* Fill out and sign Notification Form (ERP-200-1, Form 1)				
* Communicator start phone notification (except NRC)(ERP-110)				
* Direct NRC Communicator (licensed) contact NRC per ERP-110				
<u>IF</u> General with prior classifications <u>THEN</u> provide PAR to the Senior State Official (Prelude ext. 116) based on ERP-101 and ERP-300	N/A	N/A	N/A	
If the Senior State Official is not available contact counties and recommend shelter or evacuate full EPZ	N/A	N/A	N/A	
* Announce Emergency classification utilizing Appendix ERP-200-1, Form 2-5				
* Implement Station Evacuation if deemed appropriate (ERP-120)				

Appendix ERP-200-1

Form 6: EMERGENCY DIRECTOR CHECK-OFF LIST
(Ref. ERP-200, Section 6.5.1)
(Page 3 of 5)

INITIAL ACTIONS	UNUSUAL EVENT	ALERT	SITE AREA	GENERAL
Activate OSC (ERP-230) Release non-essential personnel from: Limerick Training Center Limerick Information Center	Opt			
If TSC is uninhabitable transfer TSC to MCR				
Prepare for Site Evacuation utilizing ERP-120: (Ref 6.5.5)				
Obtain met data from HP Tech/Dose Assessment Coordinator	N/A	Opt		
Select assembly area and exit route	N/A			
Inform Security Team Leader and Health Physics Team Leader	N/A			
Inform PEMA (Prelude ext. 116)	N/A			
Direct Health Physics Team Leader implement ERP-630	N/A			
Notify Assembly Area of Evacuation	N/A			
Announce evacuation from Main Control Room per ERP-120 step 2.3.	N/A			
Obtain TSC ERO Activation Checklist from EP Coordinator utilizing Form 10.				
Complete ED Turnover Form ERP-200-1, Form-8				

Appendix ERP-200-1

Form 6: EMERGENCY DIRECTOR CHECK-OFF LIST
(Ref. ERP-200, Section 6.5.1)
(Page 4 of 5)

CONTINUING ACTIONS	UNUSUAL EVENT	ALERT	SITE AREA	GENERAL
Notified of activation:				
OSC (ERP-230)	Opt			
EOF (ERP-C-1000)	N/A	Opt		
WARNING: IN THE CASE OF AN ON-GOING SECURITY COMPROMISE THE GUIDANCE OF FORM 7 MAY BE USED TO EVALUATE OPERATING DECISIONS ON BOTH UNITS IN LIGHT OF NUCLEAR AND PERSONNEL SAFETY WHICH MAY BE AFFECTED BY SECURITY THREAT (REF A/R A0811805 AE-02)				
Periodically Re-evaluate the need for local, partial, or site evacuations				
Periodically evaluate unaffected Unit Status using Appendix ERP-200-1, Form 7				
Obtain periodic status updates from team leaders				
If additional staffing required, Contact Support Personnel				
Announce emergency status changes over P.A.				
IF plant conditions warrant, implement Severe Accident Management (SAM) program.	N/A	N/A	N/A	
Verify with TSTL that SAM evaluators have been designated.	N/A	N/A	N/A	
Review recommendations from SAM evaluators for potential strategies to mitigate emergency.	N/A	N/A	N/A	
Direct implementation of selected SAM strategies.	N/A	N/A	N/A	

Appendix ERP-200-1

Form 6: EMERGENCY DIRECTOR CHECK-OFF LIST

(Ref. ERP-200, Section 6.5.1)

(Page 5 of 5)

CONTINUING ACTIONS	UNUSUAL EVENT	ALERT	SITE AREA	GENERAL
Notified of activation:				
OSC (ERP-230)	Opt			
EOF (ERP-C-1000)	N/A	Opt		
WARNING: IN THE CASE OF AN ON-GOING SECURITY COMPROMISE THE GUIDANCE OF FORM 7 MAY BE USED TO EVALUATE OPERATING DECISIONS ON BOTH UNITS IN LIGHT OF NUCLEAR AND PERSONNEL SAFETY WHICH MAY BE AFFECTED BY SECURITY THREAT (REF A/R A0811805 AE-02)				
Coordinate release of personnel from off-site assembly areas with Security Team Leader and Health Physics Team Leader				
Perform briefings/turnover Appendix ERP-200-1, Form 8				
Until relieved by ERM:				
Evaluate PAR's with Dose Assessment Coordinator:	N/A	N/A	N/A	
If modified, provide PAR's to Senior State Official (Prelude ext. 116)	N/A	N/A	N/A	

COMPLETED BY _____

APPENDIX ERP-200-1

FORM 7: UNAFFECTED UNIT OPERATION
(PAGE 1 OF 4)

NOTE: Accident conditions on one unit necessitate consideration be given as to the course of action on the unaffected unit. This form provides guidance for determination of action to take regarding operation of the unaffected unit.

The ultimate decisions on the course of action for the unaffected unit need to consider the availability of manpower to implement the decisions, and the technical effect of the action taken on the emergency as applicable.

Unaffected Unit: OPCIION _____ Reaction Power _____

1. Terminate releases in progress on the unaffected unit unless required to support the emergency.
2. If reactor start-up is in progress, terminate start-up,

INITIALS

APPENDIX ERP-200-1

FORM 7: UNAFFECTED UNIT OPERATION
(PAGE 2 OF 4)

INITIALS

3. If reactor heatup is in progress, terminate heatup & maintain unit in stable condition.

Periodically evaluate the status of both Units to determine whether the unaffected unit should remain at stable conditions established or be returned to Cold Shutdown.

4. If unit is in Hot Shutdown, maintain unit in Hot Shutdown.
5. If unit is being started up and the turbine is not synchronized to grid, maintain unit in a Steady State Condition.

APPENDIX ERP-200-1

FORM 7: UNAFFECTED UNIT OPERATION
(PAGE 3 OF 4)

- | | <u>INITIALS</u> |
|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------|
| 6. If turbine is synchronized to grid, stabilize unit at its present load. | _____ |
| Periodically evaluate the status of both units to determine whether the unaffected unit should remain in power, or be placed in Hot Shutdown or Cold Shutdown condition. | _____ |
| 7. If unit is being cooled down, continue cooldown in accordance with operating procedure until Cold Shutdown is achieved and maintain in Cold Shutdown. | _____ |
| 8. If Drywell is being purged, terminate Drywell purge. | _____ |
| 9. Suspend any core alterations in progress in accordance with fuel handling procedures. | _____ |
| 10. If the Fuel Cavity is being filled, continue filling. | _____ |
| 11. If the Refueling Cavity is being drained terminate draining. | _____ |

APPENDIX ERP-200-1

FORM 7: UNAFFECTED UNIT OPERATION
(PAGE 4 OF 4)

INITIALS

12. Identify Technical Specification Action Statement applicable to unaffected unit and requirements to address action statements.

13. Identify common equipment affected by the accident and its effect on the unaffected unit.

Unit _____

Time _____

Date _____

Emergency Director _____

FORM 8: EMERGENCY DIRECTOR TURNOVER/BRIEFING FORM

AFFECTED UNIT: 1 2

CURRENT EMERGENCY CLASSIFICATION: _____

NOTIFICATION COMPLETED?

Yes ☐ No ☐

PREVIOUS CLASSIFICATIONS:

TIME:

EAL:

PROTECTIVE ACTION RECOMMENDATIONS:

PAR: _____

AFFECTED SECTORS: _____

ISSUED TO: _____

TIME: _____

AFFECTED UNIT PLANT STATUS:

% POWER _____

SYSTEM AVAILABILITY:

FACILITY ACTIVATIONS:

FACILITY MANAGER:

HPCI Yes ☐ No ☐

MCR SHIFT MANAGER

RCIC Yes ☐ No ☐

osc Yes ☐ No ☐

ADS Yes ☐ No ☐

COND/FEED Yes ☐ No ☐

TSC Yes ☐ No ☐

A LOOP C/S Yes ☐ No ☐

B LOOP C/S Yes ☐ No ☐

EOF Yes ☐ No ☐

OTHER INFORMATION

COMMENTS:

A LOOP RHR Yes ☐ No ☐

FIRE Yes ☐ No ☐

B LOOP RHR Yes ☐ No ☐

INJURY Yes ☐ No ☐

RHRSW Yes ☐ No ☐

ACCOUNTABILITY COMPLETE?

ESW Yes ☐ No ☐

Yes ☐ No ☐

SBLC Yes ☐ No ☐

CRD Yes ☐ No ☐

ERDS ACTIVATED?

Yes ☐ No ☐

OFFSITE POWER Yes ☐ No ☐

RPV PRESSURE BOUNDARY INTACT

Yes ☐ No ☐

DIESELS Yes ☐ No ☐

CONTAINMENT INTACT?

Yes ☐ No ☐

COMMENTS: _____

PRIORITIES: _____

UNAFFECTED UNIT: 1 2 %POWER: _____

COMMENTS: _____

RAD CONDITIONS:

ELEVATED LEVELS INPLANT?

Yes ☐ No ☐ RELEASE IN PROGRESS?

Yes ☐ No ☐

RELEASE PATH _____

SGTS AVAILABLE?

Yes ☐ No ☐

COMMENTS: _____

COMPLETED BY: _____ DATE: _____ TIME: _____

1

[illegible]

FORM 10: TSC ERO ACTIVATION CHECKLIST
(Ref. ERP-200, Form 6, Page 3 of 5)

Initial Actions - TSC Activation

1. _____ Contact Shift Manager and the OSC Director
2. _____ Complete the ED Turnover/Briefing Form - Form 8.
3. _____ Verify access to data is available for assessment of plant conditions.
4. _____ Determine from the HPTL, TSC radiological habitability status.
5. _____ Verify with Dose Assessment Coordinator, dose assessment is initiated (this step is not required if dose assessment has been assumed by the unaffected station).
6. _____ Verify sufficient staff is available to mitigate the emergency utilizing the "Minimum Staffing Positions, Form 11".
7. _____ Initiate Accident Assessment Log.
8. _____ Ensure activation of the Emergency Response Data System.
9. _____ Announce "TSC Activated" both in the TSC and on the plant PA system.

NOTE

1. Items 7 and 8 are not required to be completed prior to activation of the TSC, but should be addressed as soon as possible.
2. When satisfied that all designated positions have been filled, release additional responders.

**FORM 11: MINIMUM STAFFING POSITIONS
NECESSARY TO ACTIVATE THE TSC**

- Emergency Director
- Technical Support Team Leader
- Dose Assessment Coordinator
- Health Physics Team Leader
- ED Communicator

NOTE: SHOULD CERTAIN POSITIONS BE UNFILLED AT THE TIME
ACTIVATION IS NECESSARY, ALTERNATIVE STAFFING ARRANGEMENTS
CAN BE IMPLEMENTED, AS FOLLOWS:

- Technical Support Group Member for Technical Support Team
Leader
- Unaffected Site Dose Assessment Personnel for Dose
Assessment Coordinator
- Health Physics Group Member for Health Physics Team Leader
- Any TSC ERO Member for ED Communicator

Effective Date: 12/07/01

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EXELON NUCLEAR
LIMERICK GENERATING STATION
EMERGENCY RESPONSE PROCEDURE

ERP-140 STAFFING AUGMENTATION

1.0 RESPONSIBILITIES

- 1.1 Emergency Notifications Communicator performs notifications from the Secondary Alarm Station.

2.0 INITIAL ACTIONS

- 2.1 Emergency Notifications Communicator shall:

- 2.1.1 Determine code to be used throughout procedure.
- 2.1.1.1 Code 6611 for Pager Test/prompt Mobilization Test
- 2.1.1.2 Code 6622 for Emergency Drill Callout
- 2.1.1.3 Code 6633 for Actual Emergency Callout

NOTES:

1. CONFIDENTIAL PAGER REPORT IS NEEDED TO ACTIVATE AUTODIALER.
2. IF SAS BECOMES UNINHABITABLE THEN TAKE COMPLETED ERP-200-1 FORM 1, "EMERGENCY NOTIFICATION MESSAGE FORM" TO THE TSC E.D. COMMUNICATOR AREA.

- 2.2 Activate the autodialer using the instructions in the Confidential Pager Report (Ref 6.5.1).

- 2.2.1 Record time and date of autodialer activation.

Time Contacted

Date

Initials

- 2.2.2 IF staffing augmentation cannot be immediately completed THEN perform 15 minute notification per ERP-110 AND notify the Shift Manager/Emergency Director immediately.
- 2.2.3 Perform staffing augmentation via manual method as described in confidential pager report.
- | 2.3 IF classification is "ALERT" or higher, THEN contact the additional on shift personnel listed in Appendix ERP-140-1 individually by phone or page and inform each:
 - 2.3.1 This is/is not a drill.
 - 2.3.2 To respond to their assigned location for codes 6622 or 6633.
 - 2.3.3 Record personnel and time contacted on Appendix ERP-140-1.
- 2.4 Return to ERP-110 and complete secondary notifications.
- 2.5 After ERP-110 Secondary Notifications have been completed, check fax machine for personnel responding to the autodialer and determine if page went out.
 - 2.5.1 IF no autodialer fax messages have been received by the time the secondary notifications in ERP-110 have been completed, THEN assume the pagers were NOT activated AND perform step 2.2.3.

3.0 CONTINUING ACTIONS

- 3.1 IF SAS/BRE becomes uninhabitable THEN take staffing augmentation computer AND the completed ERP-200-1 Form 1 "Emergency Notification Message Form" to the TSC ED Communicator area and continue augmentation and notifications.
- 3.2 Emergency Notifications Communicator shall contact the ED Communicator in TSC (Prelude 112) to determine if staffing levels are appropriate and if additional assistance is required to staff the on-call ERO positions.
 - 3.2.1 Utilize individual pager, work or home phone numbers to fill unstaffed positions.
 - 3.2.2 Inform Emergency Director of results including discrepancies.

4.0 FINAL CONDITIONS

4.1 Telecopy completed Appendices, ERP-140-1, ERP-110-1, and ERP-200-1, Form 1 to the TSC EMERGENCY DIRECTOR COMMUNICATOR (Fax # Ext. 2632 or 3685).

5.0 ATTACHMENTS AND APPENDICES

5.1 ERP-140-1 Personnel to be contacted by phone

6.0 SUPPORTING INFORMATION

6.1 Purpose

6.1.1 Provide guidelines and information necessary to perform staff augmentation.

6.2 Criteria for Use

6.2.1 Declaration of Alert, Site Area Emergency or General Emergency.

6.2.2 Discretion of Emergency Director.

6.3 Special Equipment

None

6.4 References

None

6.5 Commitment Annotation

6.5.1 EP Action Item Q0005493.

APPENDIX ERP-140-1

ON SHIFT PERSONNEL TO BE CONTACTED BY PHONE

1. Shift I&C Technician:

Normal work hours - extension 2400 or 2401, after hours page
Shift I&C Technician.

- a. Request that I&C activate the TSC.
- b. Contact Shift Supervision immediately if you cannot
contact shift tech.
- c. Request techs report to the Operations Support Center
AND techs report to TSC as Field Survey Drivers.

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

Effective Date: 12/07/01

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EXELON NUCLEAR
LIMERICK GENERATING STATION
EMERGENCY RESPONSE PROCEDURE

ERP-120 STATION EVACUATIONS

1.0 RESPONSIBILITIES

- 1.1 Personnel in affected area(s)
 - 1.1.1 Inform MCR Shift Supervision of discovered hazard AND evacuate as appropriate.
 - 1.1.2 Respond as directed by shift supervision.
- 1.2 Shift Supervision:
 - 1.2.1 Determine evacuation area
 - 1.2.2 Make evacuation announcement
 - 1.2.3 Initiate clean-up/recovery operations

2.0 INITIAL ACTIONS

- 2.1 IF not directly involved in controlling hazard THEN personnel in the affected area shall:
 - 2.1.1 Evacuate to safe area
 - 2.1.2 Notify Control Room of type AND location of hazard
 - 2.1.3 IF radioactive contamination is suspected, THEN assemble in safe area for HP technician frisk.
- 2.2 Shift Supervision shall:
 - 2.2.1 Direct actions required to contain hazard
 - 2.2.2 Determine if situation requires Local, Partial Plant, or Site Evacuation (See Appendix 1).

2.2.3 IF Local or Partial Plant evacuation is required
THEN make the following announcement:

"THIS (IS/IS NOT) A DRILL. THIS (IS/IS NOT) A DRILL."
(CIRCLE ONE) (CIRCLE ONE)

ALL PERSONNEL EVACUATE THE

(LOCATION(S) OF HAZARD)

AND ASSEMBLE AT

(LOCATION ASSEMBLY AREA)

BECAUSE _____

(REASON)

THIS (IS\IS NOT) A DRILL. THIS (IS/IS NOT) A DRILL."
(CIRCLE ONE) (CIRCLE ONE)

2.2.4 REPEAT THE ANNOUNCEMENT

2.2.5 IF a Site Evacuation is required, THEN:

NOTE

Evacuation should be delayed or alternate assembly areas and routes designated, if based on input from Station Security and the Shift Manager/Emergency Director's judgment, designated assembly areas and designated evacuation routes are not accessible or implementation of site accountability would place station personnel at risk due to an on-going security threat.

2.2.5.1 If a security threat exists, contact the Supervisor-Nuclear Security or the Security Team Leader (STL) to determine if evacuation should be initiated early/delayed or alternate assembly areas and evacuation routes designated.

2.2.5.2 Direct Dose Assessment Coordinator to provide:

- A. Wind direction/speed
- B. Prevailing wind conditions
- C. Suggested evacuation assembly area
AND exit route
- D. Other pertinent information

- 2.2.5.3 Select evacuation assembly area AND exit route based on the Dose Assessment Coordinator and Security input OR the following guidance:

A. Select assembly area

NOTE

IF WIND DIRECTION IS NOT AVAILABLE, DEFAULT EVACUATION ASSEMBLY AREA IS LIMERICK AIRPORT, WITH MAIN GATE EXIT (Ref. 6.5.2).

1. IF wind is from 210 to 260 degrees THEN Cromby Generating Station is recommended.
2. For all other wind directions Pottstown - Limerick Airport is recommended.
3. Consider wind direction in choice of other assembly areas.

B. Select exit route

1. IF wind is from 165 to 215 degrees, THEN use back gate only.
2. IF wind is from 305 to 350 degrees, THEN use main gate only.
3. For all other wind directions, both gates may be used.

- 2.2.5.4 Inform Security Team Leader (2048 or TSC-2626) AND Health Physics Team Leader (OSC-2064 or TSC-2624)

- A. Site evacuation is imminent
- B. Exit route
- C. Evacuation route
- D. Assembly areas

- 2.2.5.5 Inform Pennsylvania Emergency Management Agency (PEMA) of Site Evacuation (blue phone 116). (Ref 6.4.4)

2.2.5.6 Direct Health Physics Team Leader implement ERP-630, Vehicle and Evacuee Control Group.

2.2.5.7 Notify assembly area of evacuation.

A. Cromby Generating Station

610-983-4700
610-933-8995

B. Pottstown - Limerick Airport
(495-7000) 5:00 AM - 10:00 PM

C. Other selected assembly area

2.2.5.8 WHEN Security Team Leader AND Health Physics Team Leader are prepared, THEN perform Site Evacuation Alarm and Announcement steps in 2.3.

2.3 Site evacuation alarm and announcement.

2.3.1 To activate evacuation alarm:

2.3.1.1 Set "SIREN TONE GENERATOR" tone selector switch located on MCR Panel 00C650 to desired position:

A. SIREN (harmonic tone) (Preferred)

B. PULSE (high pitched pulses)
(Alternate)

C. STEADY (steady tone) (Alternate)

NOTE

EVACUATION ALARM OVERRIDES PA SYSTEM.

2.3.1.2 Pull out "EVACUATION ALARM AND RIVER WARNING SELECT" switch located on MCR Panel 00C650 AND rotate to desired position THEN push selector switch in. (Ref. 6.5.1)

A. CONT 1 - Sounds alarm in Unit 1 primary containment only.

B. CONT 2 - Sounds alarm in Unit 2 primary containment only.

C. PLANT ALARM - Sounds alarm in entire plant.

- 2.3.1.3 Sound alarm for approximately 30 seconds.
- 2.3.1.4 Return "EVACUATION ALARM AND RIVER WARNING SELECT" switch to "OFF" position to silence alarm.

- 2.3.1.5 WHEN alarms are silent, THEN announce over the Priority Page System:

"ATTENTION ALL PERSONNEL. THIS (IS/IS NOT) A DRILL. THIS (IS/IS NOT A DRILL). A SITE EVACUATION HAS BEEN ORDERED BY THE EMERGENCY DIRECTOR. DESIGNATED EMERGENCY RESPONSE PERSONNEL REPORT TO ASSIGNED ASSEMBLY AREA OR FACILITY. ALL OTHER PERSONNEL EVACUATE THE SITE IMMEDIATELY. EVACUATING PERSONNEL SHALL:

- A. EXIT THE PAB VIA THE TSC GUARD STATION EXIT LANES
- B. EXIT THE SITE VIA (THE FRONT GATE USING EVERGREEN ROAD AND/OR THE BACK GATE USING LONGVIEW ROAD).
- C. REASSEMBLE AT (CROMBY GENERATING STATION/OR POTTSTOWN-LIMERICK AIRPORT) _____.

THIS (IS/IS NOT) A DRILL. THIS (IS/IS NOT) A DRILL."

- 2.3.2 Repeat the evacuation alarm.

- 2.3.3 Repeat the announcement.

- 2.3.4 To activate River Warning System:

- 2.3.4.1 Pull out "EVACUATION ALARM AND RIVER WARNING SELECT" switch AND rotate to "MIKE" position THEN push selector switch in. (Ref. 6.5.1)

- 2.3.4.2 To broadcast, depress "RIVER BROADCAST MICROPHONE" pushbutton on grey handset AND repeat message in step 2.3.4.2.A AND verify message in accordance with step 2.3.4.3.

A. "ATTENTION ALL PERSONNEL. THIS (IS/IS NOT) A DRILL. THIS IS (IS/IS NOT) A DRILL. A SITE EVACUATION HAS BEEN ORDERED BY THE EMERGENCY DIRECTOR. DESIGNATED EMERGENCY RESPONSE PERSONNEL REPORT TO ASSIGNED ASSEMBLY AREA OR FACILITY. ALL OTHER PERSONNEL EVACUATE THE SITE IMMEDIATELY."

2.3.4.3 Repeat the evacuation alarm.

2.3.4.4 Repeat the announcement.

2.3.4.5 Verify message is being broadcasted by observing response on "RIVER BROADCAST SPEAKER VOLUME MONITOR" located on MCR Panel 00C650.

2.3.4.6 Return "EVACUATION ALARM AND RIVER WARNING SELECT" switch located on the MCR Panel 00C650 to the "OFF" position to end the broadcast.

3.0 CONTINUING ACTIONS

3.1 Shift supervision shall:

3.1.1 Account for affected area personnel using:

3.1.1.1 Security computer.

3.1.1.2 RWPs in affected area.

3.1.1.3 Affected area supervisors.

3.1.2 IF radiation hazard, THEN direct Health Physics to:

3.1.2.1 Determine extent of hazard

3.1.2.2 Post and limit access to affected area

3.1.2.3 Monitor personnel in evacuation assembly area per HP-C-818 Personnel Contamination Monitoring.

3.1.2.4 Report status back to Shift Supervision.

3.1.3 IF toxic reagent hazard, THEN direct Chemistry to:

3.1.3.1 Determine extent of hazard

3.1.3.2 Post and limit access to affected area

- 3.1.3.3 Determine which personnel were exposed to toxic reagent hazard
- 3.1.3.4 Send exposed personnel to Medical for follow-up
- 3.1.3.5 Report status back to Shift Supervision.
- 3.1.4 Direct actions required to terminate OR clean-up hazard.
 - 3.1.4.1 Review Preparedness Prevention and Contingency Plan
- 3.1.5 Log occurrence AND notify Plant Manager.
- 3.1.6 IF hazard cannot be contained, THEN
 - 3.1.6.1 Consult ERP-101, Classification of Emergencies
 - 3.1.6.2 Evaluate for other evacuations per Appendix 1.

4.0 FINAL CONDITIONS

- 4.1 When hazardous conditions have been removed or when the emergency has been terminated and personnel are accounted for, the Control Room personnel shall make the following Public Address announcement:

"THIS (IS/IS NOT) A DRILL. REPEAT, THIS (IS/IS NOT) A DRILL. THE (LOCAL, PARTIAL PLANT, SITE)" (CIRCLE ONE).
"EVACUATION FOR:

(DESIGNATED LOCATION)

HAS BEEN TERMINATED. ALL PERSONNEL MAY RESUME THEIR NORMAL DUTIES.

THIS (IS) (IS NOT) A DRILL. THIS (IS) (IS NOT) A DRILL."

- 4.2 REPEAT THE ANNOUNCEMENT

5.0 ATTACHMENTS AND APPENDICES

- 5.1 ERP-120 Appendix 1, Types of Evacuations

6.0 SUPPORTING INFORMATION

6.1 Purpose

- 6.1.1 Define steps necessary to be taken for a local, partial plant, or site evacuation.

6.2 Criteria For Use

NOTE

THIS PROCEDURE MAY NOT REQUIRE IMPLEMENTATION OF ERP-101.

- 6.2.1 Implemented by Shift Supervision when conditions indicate a local, partial plant, site evacuation or at the discretion of the Shift Manager/Emergency Director(See Appendix 1).
- 6.2.3 Evacuation should be initiated early/delayed or alternate assembly areas/routes designated, if based on input from Station Security, Radiation Protection and the Shift Manager/Emergency Director's judgment, designated assembly areas and designated evacuation routes are not accessible or implementation of site accountability would place station personnel at risk due to an on-going security threat.

6.3 Special Equipment

None

6.4 References

- 6.4.1 Limerick Generating Station Emergency Plan
- 6.4.2 ERP-101 Classification of Emergencies
- 6.4.3 CH-908 Determination of Toxic Gas Concentrations
- 6.4.4 Annex E: Radiological Emergency Response to Nuclear Power Plant Incidents.

6.5 Commitment Annotation

- 6.5.1 A/R A0653407, see steps 2.3.1.2 and 2.3.4.1
- 6.5.2 EP AI QE #Q0005406 - Note Step 2.2.5.2 (A)

ERP-120 Appendix 1
(Page 1 of 1)

TYPES OF EVACUATIONS

LOCAL

- A. Local Area Radiation Monitor (ARM) or (CAM) has unexpected continuous air monitor alarm conditions.
- B. Observation of localized, unexpected release, leakage or spill which represents personnel hazard.
 - 1. Radioactive material
 - 2. Toxic agent
- C. Other localized hazard
 - 1. Flood
 - 2. Fire
 - 3. Smoke

PARTIAL PLANT

Implemented whenever two(2) OR more large operating areas are affected:

- A. Increase in ARMs OR CAMs indications to greater than alarm levels.
- B. Radiation levels greater than 100 mr/hr where normally less than 10 mr/hr is experienced.
- C. Airborne radioactivity greater than 3 N7 mCi/cc for unidentified isotopic (except noble gas) OR 100 times MPC for identified isotopes in restricted areas(s).
- D. Release, leakage or spill of toxic reagent causing area(s) to be uninhabitable.
- E. Other hazards, such as fire or flood.

SITE EVACUATION IMPLEMENTED

- A. At Emergency Director's discretion
- B. WHEN actual OR potential radioactive release(s) exceeds Emergency Action Levels (EALs) specified for Site Area Emergency in ERP-101, Classification of Emergencies.

ATTACHMENT 2

LIMERICK GENERATING STATION, UNITS 1 & 2

**Docket Nos. 50-352
50-353**

**License Nos. NPF-39
NPF-85**

EMERGENCY RESPONSE PROCEDURES

REPORT INDEX

LIMERICK GENERATING STATION

PROCEDURE INDEX REPORT:

FAC	DOC TYPE	PROC TYPE	PROCEDURE NUMBER	CURR REV NBR	TITLE	EFFECTIVE DATE	RESP GROUP	SYSTEM NBR
LG	PROC	ERP	ERP-C-1000	0006	EMERGENCY OPERATIONS FACILITY (EOF) ACTIVATION/DEACTIVATION	06/25/01		
LG	PROC	ERP	ERP-C-1000-1	0004	EOF ACTIVATION CHECKLIST	06/25/01		
LG	PROC	ERP	ERP-C-1000-2	0003	EOF DEACTIVATION CHECKLIST	04/21/99		
LG	PROC	ERP	ERP-C-1000-3	0000	EOF BUSINESS HOURS FIRST RESPONDER CHECKLIST	04/21/99		
LG	PROC	ERP	ERP-C-1000-4	0000	EOF AFTER HOURS FIRST RESPONDER CHECKLIST	04/21/99		
LG	PROC	ERP	ERP-C-1000-5	0000	MINIMUM STAFFING POSITIONS NECESSARY TO ACTIVATE THE EOF	06/25/01		
LG	PROC	ERP	ERP-C-1100	0003	EOF STAFF AUGMENTATION INCORPORATED INTO ERP-C-1250	09/14/94		
LG	PROC	ERP	ERP-C-1200	0011	EMERGENCY RESPONSE MANAGER	06/25/01	LWE	
LG	PROC	ERP	ERP-C-1200-1	0000	EMERGENCY RESPONSE MANAGER TURNOVER/BRIEFING FORM	09/14/94		
LG	PROC	ERP	ERP-C-1200-2	0000	PROTECTIVE ACTION RECOMMENDATION WORKSHEET CANCELLED	10/24/95		
LG	PROC	ERP	ERP-C-1200-3	0000	ERM PAR DELIVERY CHECKLIST	04/03/00		
LG	PROC	ERP	ERP-C-1200-4	0000	MINIMUM STAFFING POSITIONS NECESSARY TO ACTIVATE THE EOF	03/30/01		
LG	PROC	ERP	ERP-C-1210	0002	ASSISTANT EMERGENCY RESPONSE MANAGER (AERM) CANCELLED	10/24/95		
LG	PROC	ERP	ERP-C-1250	0004	EMERGENCY PREPAREDNESS COORDINATOR/EOF	06/25/01		
LG	PROC	ERP	ERP-C-1250-1	0000	EMERGENCY POWER INSTRUCTIONS	09/14/94		
LG	PROC	ERP	ERP-C-1250-2	0002	EMERGENCY PREPAREDNESS COORDINATOR INSTRUCTIONS FOR ASPEN BACKUP NOTIFICATION SYSTEM	05/11/01		
LG	PROC	ERP	ERP-C-1250-3	0000	EMERGENCY PREPAREDNESS COORDINATOR INSTRUCTIONS TO STOP STAFFING	09/14/94		
LG	PROC	ERP	ERP-C-1250-4	0000	EMERGENCY PREPAREDNESS COORDINATOR INSTRUCTIONS FOR SYSTEM RESET	09/14/94		
LG	PROC	ERP	ERP-C-1300	0010	EMERGENCY OPERATIONS FACILITY (EOF) DOSE ASSESSMENT TEAM LEADER	08/29/00		
LG	PROC	ERP	ERP-C-1300-1	0004	DOSE ASSESSMENT TEAM LEADER (DATL) INITIAL ACTIONS	06/25/01		
LG	PROC	ERP	ERP-C-1300-2	0000	DOSE ASSESSMENT TURNOVER LIST	09/23/94		
LG	PROC	ERP	ERP-C-1300-3	0004	PROTECTIVE ACTION RECOMMENDATION WORKSHEET	03/30/01		
LG	PROC	ERP	ERP-C-1300-4	0000	OFFSITE SAMPLE ANALYSIS REQUESTS	09/23/94		
LG	PROC	ERP	ERP-C-1300-5	0001	DETERMINATION OF PROTECTIVE ACTION RECOMMENDATIONS (PARS)	11/02/98		
LG	PROC	ERP	ERP-C-1300-6	0002	DOSE ASSESSMENT GROUP MEMBER (DAGM) INITIAL ACTIONS	06/25/01		
LG	PROC	ERP	ERP-C-1300-7	0000	OBTAINING EPDS MET/RAD DATA	03/26/97		
LG	PROC	ERP	ERP-C-1300-8	0000	USE OF MODE A/MODE B CDM	03/26/97		
LG	PROC	ERP	ERP-C-1300-9	0001	OBTAINING MET DATA FROM NATIONAL WEATHER SERVICE	09/12/97		
LG	PROC	ERP	ERP-C-1310	0003	EMERGENCY OPERATIONS FACILITY (EOF) DOSE ASSESSMENT GROUP CANCELLED	03/26/97		
LG	PROC	ERP	ERP-C-1310-1	0000	DOSE ASSESSMENT GROUP LEADER INITIAL ACTIONS CANCELLED	03/26/97		
LG	PROC	ERP	ERP-C-1310-2	0000	OBTAINING MET DATA FROM NATIONAL WEATHER SERVICE CANCELLED	03/26/97		
LG	PROC	ERP	ERP-C-1310-3	0000	OBTAINING EPDS MET/RAD DATA CANCELLED	03/26/97		
LG	PROC	ERP	ERP-C-1310-4	0000	USE OF MODE A / MODE B OF CDM CANCELLED	03/26/97		
LG	PROC	ERP	ERP-C-1320	0007	EMERGENCY OPERATIONS FACILITY (EOF) FIELD SURVEY GROUP LEADER	08/29/00		
LG	PROC	ERP	ERP-C-1320-1	0002	FIELD SURVEY GROUP LEADER INITIAL ACTIONS	04/10/98		
LG	PROC	ERP	ERP-C-1320-2	0001	FIELD SURVEY GROUP LEADER TURNOVER SHEET	03/26/97		
LG	PROC	ERP	ERP-C-1320-3	0002	FIELD SURVEY GROUP LEADER DATA SHEET	08/29/00		
LG	PROC	ERP	ERP-C-1400	0005	ENGINEERING SUPPORT TEAM	06/25/01		

LIMERICK GENERATING STATION

PROCEDURE INDEX REPORT:

FAC	DOC TYPE	PROC TYPE	PROCEDURE NUMBER	CURR REV NBR	TITLE	EFFECTIVE DATE	RESP GROUP	SYSTEM NBR
LG	PROC	ERP	ERP-C-1400-1	0002	ENGINEERING SUPPORT TEAM CHECKLIST	11/02/98		
LG	PROC	ERP	ERP-C-1410	0002	CORE DAMAGE ASSESSMENT	09/09/98		
LG	PROC	ERP	ERP-C-1410-1	0000	RADIOLOGICAL DATA	09/14/94		
LG	PROC	ERP	ERP-C-1410-2	0001	HYDROGEN CONCENTRATION DATA	09/09/98		
LG	PROC	ERP	ERP-C-1410-3	0001	CONTAINMENT RADIATION MONITOR DATA	09/09/98		
LG	PROC	ERP	ERP-C-1410-4	0000	METAL WATER REACTION CANCELLED	09/09/98		
LG	PROC	ERP	ERP-C-1410-5	0002	PERCENT OF FUEL INVENTORY AIRBORNE IN THE CONTAINMENT VS. APPROXIMATE SOURCE AND DAMAGE ESTIMATE	06/01/01		
LG	PROC	ERP	ERP-C-1410-6	0002	PROCEDURES FOR ESTIMATING FUEL DAMAGE BASED ON MEASURED I-131 AND XE-133 CONCENTRATIONS	06/25/01		
LG	PROC	ERP	ERP-C-1500	0006	LOGISTIC SUPPORT TEAM	04/14/00		
LG	PROC	ERP	ERP-C-1500-1	0001	MESSAGE AND INFORMATION INSTRUCTIONS	10/24/95		
LG	PROC	ERP	ERP-C-1500-2	0001	HELICOPTER LANDING INFORMATION	10/24/95		
LG	PROC	ERP	ERP-C-1900	0004	RECOVERY PHASE IMPLEMENTATION	11/02/98		
LG	PROC	ERP	ERP-C-1900-1	0000	RECOVERY PHASE IMPLEMENTATION FLOW CHART	06/28/93		
LG	PROC	ERP	ERP-C-1900-2	0002	PEACH BOTTOM ATOMIC POWER STATION RECOVERY ACCEPTANCE CHECKLIST	04/02/98		
LG	PROC	ERP	ERP-C-1900-3	0002	LIMERICK GENERATING STATION RECOVERY ACCEPTANCE CHECKLIST	04/02/98		
LG	PROC	ERP	ERP-C-1900-4	0002	RECOVERY PLAN OUTLINE	04/02/98		
LG	PROC	ERP	ERP-C-1900-5	0002	ASSESSMENT CONSIDERATIONS	12/28/99		
LG	PROC	ERP	ERP-101	0011	CLASSIFICATION OF EMERGENCIES	09/14/99	LWE	
LG	PROC	ERP	ERP-101 BASES	0002	LGS EAL TECHNICAL BASIS MANUAL	07/24/01		
LG	PROC	ERP	ERP-106	0003	WRITTEN SUMMARY NOTIFICATION	11/22/95	LWE	
LG	PROC	ERP	ERP-110	0033	EMERGENCY NOTIFICATION	06/12/01	LWE	
LG	PROC	ERP	ERP-120	0007	STATION EVACUATIONS	12/07/01	LWE	
LG	PROC	ERP	ERP-140	0010	STAFFING AUGMENTATION	12/07/01	LWE	
LG	PROC	ERP	ERP-200	0015	EMERGENCY DIRECTOR (ED) RESPONSE	12/07/01	LWE	
LG	PROC	ERP	ERP-200-1 APP	0012	EMERGENCY DIRECTOR FORMS	12/07/01	LWE	
LG	PROC	ERP	ERP-200-2 APP	0000	DOSE ASSESSMENT DATA SHEET	06/20/00		
LG	PROC	ERP	ERP-230	0014	OPERATIONS SUPPORT CENTER (OSC) DIRECTOR	04/14/00	LWE	
LG	PROC	ERP	ERP-230 APPENDIX 1	0000	OSC - EMERGENCY COMMUNICATIONS EQUIPMENT CHECK LIST	04/14/00		
LG	PROC	ERP	ERP-230 APPENDIX 2	0000	OSC DIRECTOR ACTIVATION CHECK-OFF LIST	04/14/00		
LG	PROC	ERP	ERP-230 APPENDIX 3	0000	OPERATIONS SUPPORT CENTER FACILITY ACCOUNTABILITY LOG	04/14/00		
LG	PROC	ERP	ERP-230 APPENDIX 4	0000	OSC DIRECTOR ACTIVATION	04/14/00		
LG	PROC	ERP	ERP-300	0022	TSC/MCR DOSE ASSESSMENT TEAM	04/03/00	LWE	
LG	PROC	ERP	ERP-300 APPENDIX 1	0000	DOSE ASSESSMENT TEAM ACTIVATION	04/03/00		
LG	PROC	ERP	ERP-300 APPENDIX 2	0000	DOSE ASSESSMENT TEAM CHECK-OFF LIST	04/03/00		
LG	PROC	ERP	ERP-300 APPENDIX 3	0001	TURNOVER OF DOSE ASSESSMENT RESPONSIBILITIES	06/19/00		
LG	PROC	ERP	ERP-300 APPENDIX 4	0000	DOSE ASSESSMENT DATA SHEET	04/03/00		
LG	PROC	ERP	ERP-300 APPENDIX 5	0000	USE OF MESOREM, JR, AUTO MODE A	04/03/00		
LG	PROC	ERP	ERP-300 APPENDIX 6	0000	OBTAINING RADIOLOGICAL DATA	04/03/00		
LG	PROC	ERP	ERP-300 APPENDIX 7	0000	OBTAINING MET DATA FROM PLANT MONITORING SYSTEM (PMS)	04/03/00		
LG	PROC	ERP	ERP-300 APPENDIX 8	0000	OBTAINING METEOROLOGICAL DATA FROM NATIONAL WEATHER SERVICE	04/03/00		
LG	PROC	ERP	ERP-300 APPENDIX 9	0001	PROTECTIVE ACTION WORKSHEET	06/19/00		
LG	PROC	ERP	ERP-300 APPENDIX 10	0000	USE OF NORTH STACK DOSE RATE TO ESTIMATE RELEASE SOURCE TERM	04/03/00		
LG	PROC	ERP	ERP-300 APPENDIX 11	0000	OPERATION OF IBM PS/2 MODEL L40SX	04/03/00		
LG	PROC	ERP	ERP-300 APPENDIX 12	0000	LIMERICK LIQUID RELEASE DOSE CALCULATIONS	04/03/00		
LG	PROC	ERP	ERP-300 APPENDIX 13	0000	DOSE ASSESSMENT SELF-CHECK	04/03/00		
LG	PROC	ERP	ERP-300 APPENDIX 14	0000	STABILITY CLASS DETERMINATION	04/03/00		
LG	PROC	ERP	ERP-316	0000	OPERATION OF THE DOSE ASSESSMENT COMPUTER (CM-4)	06/20/00		

LIMERICK GENERATING STATION

PROCEDURE INDEX REPORT:

FAC	DOC TYPE	PROC TYPE	PROCEDURE NUMBER	CURR REV NBR	TITLE	EFFECTIVE DATE	RESP GROUP	SYSTEM NBR
LG	PROC	ERP	ERP-326	0000	SHIFT DOSE ASSESSMENT PERSONNEL (SDAP)	06/20/00		
LG	PROC	ERP	ERP-330	0000	USE OF NORTH STACK-DOSE RATE TO ESTIMATE RELEASE SOURCE TERM CANCELLED INCORPORATED INTO ERP-300 APP.10	11/14/94	LWE	
LG	PROC	ERP	ERP-340	0008	FIELD SURVEY GROUP	06/20/00	LWE	
LG	PROC	ERP	ERP-350	0003	RADIOACTIVE LIQUID RELEASE CANCELLED	11/10/94	LWE	
LG	PROC	ERP	ERP-360	0003	ADJUSTMENT OF WIDE RANGE GAS MONITOR CONVERSION FACTORS	10/18/99	LWE	
LG	PROC	ERP	ERP-370	0001	USE OF RMMS FOR DOSE ASSESSMENT CANCELLED	11/10/94	LWE	
LG	PROC	ERP	ERP-400	0013	CHEMISTRY SAMPLING AND ANALYSIS TEAM	07/24/01	LWE	
LG	PROC	ERP	ERP-410	0002	SAMPLE PREPARATION AND HANDLING OF HIGHLY RADIOACTIVE LIQUID SAMPLES	09/28/98	LWE	
LG	PROC	ERP	ERP-420	0002	SAMPLE PREPARATION AND HANDLING OF HIGHLY RADIOACTIVE PARTICULATE FILTERS AND IODINE CARTRIDGES	09/28/98	LWE	
LG	PROC	ERP	ERP-430	0002	SAMPLE PREPARATION AND HANDLING OF HIGHLY RADIOACTIVE GAS SAMPLES	09/28/98	LWE	
LG	PROC	ERP	ERP-440	0002	OFF-SITE ANALYSIS OF HIGH ACTIVITY SAMPLES	03/29/95	LWE	
LG	PROC	ERP	ERP-500	0016	SECURITY TEAM	04/14/00	LWE	
LG	PROC	ERP	ERP-500 APPENDIX 1	0000	SECURITY TEAM ACTIVATION	04/14/00		
LG	PROC	ERP	ERP-500 APPENDIX 2	0000	SECURITY TEAM STAFFING GUIDELINES	04/14/00		
LG	PROC	ERP	ERP-500 APPENDIX 3	0000	STAFFING FOR SITE EVACUATION	04/14/00		
LG	PROC	ERP	ERP-500 APPENDIX 4	0000	SECURITY EVACUATION GUIDANCE	04/14/00		
LG	PROC	ERP	ERP-500 APPENDIX 5	0000	SECURITY TEAM LEADER CHECK-OFF LIST	04/14/00		
LG	PROC	ERP	ERP-500 APPENDIX 6	0000	EMERGENCY ASSEMBLY AREAS	04/14/00		
LG	PROC	ERP	ERP-500 APPENDIX 7	0000	FACILITY ACCOUNTABILITY LOG TECHNICAL SUPPORT CENTER	04/14/00		
LG	PROC	ERP	ERP-600	0012	HEALTH PHYSICS TEAM	05/19/98	LWE	
LG	PROC	ERP	ERP-620	0002	PLANT SURVEY GROUP CANCELLED - NO REPLACEMENT	05/02/95	LWE	
LG	PROC	ERP	ERP-630	0003	VEHICLE AND EVACUEE CONTROL GROUP	03/29/95	LWE	
LG	PROC	ERP	ERP-640	0008	EMERGENCY RESPONSE FACILITY HABITABILITY	04/17/99	LWE	
LG	PROC	ERP	ERP-650	0010	ENTRY FOR EMERGENCY REPAIR AND OPERATIONS	06/20/00	LWE	
LG	PROC	ERP	ERP-660	0006	DISTRIBUTION OF THYROID BLOCKING TABLETS	04/17/99	LWE	
LG	PROC	ERP	ERP-700	0016	TECHNICAL SUPPORT TEAM	02/15/01	LWE	
LG	PROC	ERP	ERP-800	0020	MAINTENANCE TEAM	12/15/00	LWE	
LG	PROC	ERP	ERP-800 APPENDIX 1	0000	TASK BRIEFING/DEBRIEFING SHEET	04/14/00		
LG	PROC	ERP	ERP-800 APPENDIX 2	0001	MAINTENANCE TEAM ACTIVATION	07/24/01		
LG	PROC	ERP	ERP-800 APPENDIX 3	0001	TECHNICAL SUPPORT CENTER ACTIVATION	12/15/00		
LG	PROC	ERP	ERP-800 APPENDIX 4	0001	OFFSITE SIRENS ACTIVATION (REF. 6.5.1)	12/15/00		

** END OF REPORT **