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Nuclear

10CFR50, Appendix E

June 8, 2001

Docket Nos. 50-352

50-353

License Nos. NPF-39

NPF-85

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

Subject:

Limerick Generating Station, Units 1 & 2 Emergency Response Procedure Revisions

Dear Sir/Madam:

Enclosed is the following procedure revision to the Emergency Response Procedures (ERPs) for Limerick Generating Station, Units 1 and 2. This procedure is required to be submitted within thirty (30) days of its revision in accordance with 10CFR50, Appendix E, and 10CFR50.4.

• ERP-101, Revision 12, "Classification of Emergencies"

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,

James A. Hutton

Director - Licensing

Mid-Atlantic Regional Operating Group

D. G. Helher /FOR

Attachments

cc:

H. J. Miller, Administrator, Region I, USNRC (2 copies)

A. L. Burritt, USNRC Senior Resident Inspector, LGS

ATTACHMENT 1

LIMERICK GENERATING STATION, UNITS 1 & 2

Docket Nos. 50-352

50-353

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NPF-85

EMERGENCY RESPONSE PROCEDURE

ERP-101, "Classification of Emergencies" Revision 12

Effectues 6/12/0,

PECO ENERGY COMPANY LIMERICK GENERATING STATION EMERGENCY RESPONSE PROCEDURE

ERP-101 CLASSIFICATION OF EMERGENCIES

1.0 RESPONSIBILITIES

- 1.1 Shift Manager
 OR designated alternate implement procedure as Emergency Director until relieved.
- 1.2 Plant Manager
 OR designated alternate:
 - 1.2.1 Relieves acting Emergency Director.
 - 1.2.2 Assumes role of Emergency Director.
 - 1.2.3 Implements procedure.

2.0 INITIAL ACTIONS

NOTE:	THE JUDGEMENT OF THE EMERGENCY DIRECTOR
	OR EMERGENCY RESPONSE MANAGER
	TAKES PRECEDENCE OVER GUIDANCE IN THE PROCEDURE.

- 2.1 Emergency Director shall:
 - 2.1.1 Select categories appropriate for station events OR conditions.

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(Tech S	pec, Loss of Decay Heat Removal, Loss of Assessment/	Commu	nicat	cions)
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NOTE: IDENTIFICATION AND CLASSIFICATION OF EMERGENCIES SHOULD BE ACCOMPLISHED WITHIN 15 MINUTES AFTER THE APPLICABLE EMERGENCY ACTION LEVELS (EALs) ARE MET.

- 2.1.2 Review Emergency Action Level (EALs) for categories selected.
- 2.1.3 <u>IF</u> event trigger is known to be spurious, <u>THEN</u> do not classify event i.e., false high reading, false chlorine monitor readings, etc.
- 2.1.4 Classify event based on selected categories <u>AND</u> most severe EALs.
- 2.1.5 <u>IF</u> the event(s) <u>OR</u> condition(s) classifies as an emergency, <u>THEN</u> implement ERP-200, Emergency Director (ED) Response.

3.0 CONTINUING ACTIONS

- 3.1 <u>IF</u> Unusual Event classification is determined, <u>THEN</u> provide NRC a written summary within 24 hours of Close-out.
- 3.2 Periodically evaluate event classification against existing plant conditions (EALs).
- 3.3 If a higher Emergency Classification is reached, <u>THEN</u> re-enter ERP-200, <u>AND</u> direct notifications per ERP-110.

NOTE: ADDITIONAL EVENTS WHICH DO NOT CHANGE THE EMERGENCY CLASSIFICATION ARE COMMUNICATED TO GOVERNMENTAL AGENCIES PER NORMAL EVENT CHRONOLOGY COMMUNICATIONS.

NOTE: IT IS PREFERABLE TO OBTAIN EMERGENCY RESPONSE MANAGER CONCURRENCE PRIOR TO DE-ESCALATION.

- 3.4 Escalate\de-escalate emergency classification as needed.
- 3.5 <u>WHEN</u> the emergency has been controlled, <u>AND</u> plant is in a safe shutdown condition, <u>THEN</u>:
 - 3.5.1 Determine whether recovery phase is justifiable:
 - 3.5.1.1 Evaluate plant operating conditions.
 - 3.5.1.2 Evaluate radiological conditions.
 - 3.5.1.3 The ED shall enter the recovery phase with concurrence from the Emergency Response Manager and with consideration of recommendations from Federal and State authorities per ERP-C-1900, Recovery Phase Implementation.

3.6 Provide NRC a written summary within eight hours of closeout OR de-escalation per ERP-106, Written Summary Notification.

4.0 FINAL CONDITIONS

- 4.1 Emergency conditions have been terminated AND affected unit has been placed in a safe condition.
- 4.2 ERP-C-1900, Recovery Phase Implementation has been implemented.

5.0 ATTACHMENTS AND APPENDICES

- 5.1 Table 1.0, Reactor Fuel
- 5.2 Table 2.0, Reactor Pressure Vessel
- 5.3 Table 3.0, Fission Product Barrier
- 5.4 Table 4.0, Secondary Containment Bypass
- 5.5 Table 5.0, Radioactivity Release
- 5.6 Table 6.0, Loss of Power
- 5.7 Table 7.0, Internal Events
- 5.8 Table 8.0, External Events
- 5.9 Table 9.0, Other

.0 SUPPORTING INFORMATION

6.1 Purpose

6.1.1 Provide guidelines for classifying an event or condition into one of four emergency classifications described in Emergency Plan.

6.2 Criteria For Use

6.2.1 Implement whenever conditions meet

OR exceed Emergency Action Levels (EALs) listed in
ERP-101 Classification Tables.

NOTE: ISSUANCE OF A PAR REQUIRES A GENERAL EMERGENCY CLASSIFICATION AND CONVERSELY A GENERAL EMERGENCY CLASSIFICATION REQUIRES THE ISSUANCE OF A PAR.

- PAR information in the tables, is expected to be used when an event rapidly progresses to a General Emergency or when the PAR is based only on plant conditions. Dose Assessment based PAR information may be obtained from ERP-300, TSC/MCR Dose Assessment Team, or the Dose Assessment Team Leader. In either case, the most conservative PAR available is to be used.
- 6.2.3 Whenever the Emergency Operations Facility (EOF) is activated and the Emergency Response Manager (ERM) is in charge, then determine Protective Action Recommendation (PAR) in conjunction with the Emergency Response Manager.

6.3 Special Equipment

6.3.1 None

6.4 References

- 6.4.1 Limerick Generating Station 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-110, Emergency Notification
- 6.4.4 ERP-106, Written Summary Notification
- 6.4.5 ERP-200, Emergency Director (ED) Response
- 6.4.6 ERP-300, TSC/MCR Dose Assessment Team
- 6.4.7 ERP-C-1200, Emergency Response Manager
- 6.4.8 ERP-C-1900, Recovery Phase Implementation

6.4	1.9	LGS - Technical Specifications
6.4	1.10	T-101, Reactor Pressure Vessel Control
6.4	1.11	T-102, Containment Control
6.4	1.12	T-104, Radioactivity Release Control
6.4	1.13	Offsite Dose Calculation Manual
6.4	1.14	US NRC Response Technical Manual, April 1991, Section I (General Emergency Protective Action Recommendations)
6.4	1.15	10CFR20 Standards for Protection Against Radiation
6.4	1.16	EPA-400-R-92-001 Oct. 1991, Manual of Protective Action Guides and Protective Actions for Nuclear Incidents
6.4	1.17	NUREG-0818 Emergency Action Levels for Light Water Reactors (1981 - Draft)
6.4	1.18	NUMARC/NESP-007, Methodology for Development of Emergency Action Levels
Com	omitmen	t Annotation
<u> </u>	muz Cmeri	C Almotation
6.5	5.1	Action Item Q0003158 (Boundary Degradation/LOCA EAL Set for General Emergency Classification,

6.5

- Appendix ERP-101-11)
- OEAP A0370948 AE02 (Radioactive Effluent Release EAL Set, 6.5.2 Appendix ERP-101-6)
- A/R A0843199 Eval. 67 (Boundary Degradation/LOCA EAL set, 6.5.3 Appendix ERP-101-11)
- PEP Issue I0002326 Eval 15 (Radioactive Effluent Release 6.5.4 EAL set, Appendix ERP-101-6)

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1.0 Reactor Fuel

1.1 Coolant Activity

CLASSIFICATION	EMERGENCY ACTION LEVEL						
UNUSUAL EVENT	IC Fuel Clad Degradation						
	1.1.1.a Applicable Opcons: ALL						
	Reactor Coolant activity > 4 μCi/gm Dose Equivalent Iodine 131						
	1.1.1.b Applicable Opcons: 1, 2, 3 SJAE Radiation (Offgas Monitor) > 2.1x10 ⁴ mR/hr						
ALERT	None						
SITE AREA EMERGENCY	None						
GENERAL EMERGENCY	None .						

1.0 Reactor Fuel

1.2 Irradiated Fuel or New Fuel

CLASSIFICATION	EMERGENCY ACTION LEVEL						
UNUSUAL EVENT	IC Unexpected Increase in Plant Radiation or Airborne Concentration.						
	1.2.1.a Applicable Opcons: ALL						
	Uncontrolled water level decrease in the spent fuel pool with all irradiated fuel assemblies remaining covered by water						
	1.2.1.b Applicable Opcons: ALL Unexpected Fuel Pool Storage low level alarm AND						
	Visual observation of an uncontrolled water level decrease below the fuel pool skimmer surge tank inlet						
ALERT	IC Major Damage to Irradiated Fuel, or Loss of Water Level that Has or Will Result in the Uncovering of Irradiated Fuel Outside the Reactor Vessel						
	1.2.2.a Applicable Opcons: ALL						
	Unplanned general area radiation > 500 mR/hr on the refuel floor (Table 1-1)						
1	1.2.2.b Applicable Opcons: ALL Report of visual observation of irradiated fuel uncovered						
·	1.2.2.c Applicable Opcons: ALL Water Level < 22 feet above RPV flange for the Reactor Refueling Cavity that will result in Irradiated Fuel uncovering						
	1.2.2.d Applicable Opcons: ALL Water Level < 22 feet above seated Irradiated Fuel for the Spent Fuel Pool that will result in Irradiated Fuel uncovering						
SITE AREA EMERGENCY	None						
GENERAL EMERGENCY	None						

Table 1-1 Refuel Floor ARMs

RIS29-M1-1(2)K600, Drywell Head Laydown

RIS30-M1-1(2)K600, Dryer/Seperator Area

RIS31-M1-1(2)K600, Spent Fuel Pool

RIS32-M1-1(2)K600, New Fuel Storage Vault

RIS33-M1-1(2)K600, Pool Plug Laydown

2.0 Reactor Pressure Vessel

2.1 Reactor Water Level

CLASSIFICATION	EMERGENCY ACTION LEVEL
UNUSUAL EVENT	IC Reactor Coolant System Leakage
	2.1.1 Applicable Opcons: 1, 2, 3, 4
	The following conditions exist:
	Unidentified Primary System Leakage > 10 gpm into the Drywell OR
	Identified Primary System Leakage > 25 gpm into the Drywell
ALERT	None
SITE AREA EMERGENCY	IC Loss of Water Level in the Reactor Vessel That Has or Will Uncover fuel in the Reactor Vessel
	2.1.3 Applicable Opcons: 4, 5
	RPV level < -161 "
GENERAL EMERGENCY	None

2.0 Reactor Pressure Vessel

2.2 Reactor Power

C Failure of Reactor Protection System Instrumentation to Complete or Initiate an Automatic Reactor Scram Once a Reactor Protection System Setpoint Has Been Exceeded and Manual Scram Was Successful 2.2.2 Applicable Opcons: 1, 2 Automatic RPS SCRAM should occur due to RPS Setpoint being exceeded AND ailure of Automatic RPS SCRAM to make Reactor shutdown C Failure of Reactor Protection System Instrumentation to Complete or							
Initiate an Automatic Reactor Scram Once a Reactor Protection System Setpoint Has Been Exceeded and Manual Scram Was Successful 2.2.2 Applicable Opcons: 1, 2 Automatic RPS SCRAM should occur due to RPS Setpoint being exceeded AND ailure of Automatic RPS SCRAM to make Reactor shutdown Failure of Reactor Protection System Instrumentation to Complete or							
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Failure of Reactor Protection System Instrumentation to Complete or							
Initiate an Automatic Reactor Scram Once a Reactor Protection System Setpoint Has Been Exceeded and Manual Scram Was NOT Successful							
.2.3 Applicable Opcons: 1, 2							
RPS SCRAM should occur due to RPS Setpoint being exceeded							
AND							
ailure of Automatic RPS, ARI <u>AND</u> Manual SCRAM reduce reactor power < 4%							
Failure of the Reactor Protection System to Complete an Automatic Scram and Manual Scram was NOT Successful and There is Indication of an Extreme Challenge to the Ability to Cool the Core							
2.4 Applicable Opcons: 1, 2							
RPS SCRAM should occur due to RPS Setpoint being exceeded							
AND							
Failure of Automatic RPS, ARI <u>AND</u> Manual SCRAM to reduce reactor power < 4% AND							
Suppression Pool Temperature is on the "UNSAFE" side of the Heat Capacity Temperature Limit (HCTL) curve (T-102, SP/T-1) OR RPV level <-186 "							
PAR							
vacuate out to 5 mile radius, shelter remaining areas of EPZ.							

3.0 Fission Product Barrier Table

3.1 Initiating Condition Matrix

CLASSIFICATION	EMERGENCY ACTION LEVEL
UNUSUAL EVENT	3.1.1 Applicable Opcons: 1, 2, 3
	ANY Loss OR ANY Potential Loss of Primary Containment
ALERT	3.1.2 Applicable Opcons: 1, 2, 3
	ANY Loss OR ANY Potential Loss of EITHER Fuel Clad OR RCS
SITE AREA	3.1.3 Applicable Opcons: 1, 2, 3
EMERGENCY	Loss of BOTH Fuel Clad <u>AND</u> RCS OR
	Potential Loss of BOTH Fuel Clad AND RCS
	<u>OR</u>
	Potential Loss of EITHER Fuel Clad <u>OR</u> RCS, <u>AND</u> Loss of ANY Additional
	Barrier
GENERAL	3.1.4 Applicable Opcons: 1, 2, 3
EMERGENCY	Loss of ANY Two Barriers AND
ĺ	Potential Loss of Third Barrier
	(See Fission Product Barrier Table 3.2 for exception based on extremely Hi Containment Radiation Levels.)
	PAR
	Evacuate out to 5 mile radius, shelter remaining areas of EPZ.
	3.1.5 Applicable Opcons: 1, 2, 3
	Loss of ALL Three Barriers
	PAR
	Evacuate out to 10 mile radius.

NOTES:

- 1. If a "Loss" condition is satisfied, the "Potential Loss" category can be considered satisfied. This is accounted for in the matrix contained in the Fission Product Barrier Table 3.2 used to determine the proper classification based on Fission Product Barrier status.
- 2. For all conditions listed in Fission Product Barrier Table 3.2, the barrier failure column is only satisfied if it fails when called upon to mitigate an accident. For example, failure of both containment isolation valves to isolate with a downstream pathway to the environment is only a concern during an accident. If this condition exists during normal power operations, it will be an active Technical Specification Action Statement. However, during accident conditions, this will represent a breach of containment.

3.2 Fission Product Barrier Status Table

Barrier	Fue	I Clad	Reactor Cod	olant System	Primary Containment				
Parameter	Loss	Potential Loss	Loss	Potential Loss	Loss Potential Loss				
Reactor Coolant Activity	Reactor Coolant activity > 300 μCi/gm Dose Equivalent lodine 131	m Dose				N/A			
RPV Level	RPV level < -186 "	RPV level < -161 "	RPV level < -161 "	N/A	N/A	Procedure T-111 or T-117 direct entry into SAMP-1 and SAMP-2.			
RPV Level Unknown	N/A	N/A	N/A	RPV level cannot be determined	N/A	Procedure T-116 directs entry into SAMP-1 and SAMP-2.			
RCS Leak Rate	N/A	N/A	N/A	RCS leakage >50 gpm	N/A	N/A			
Drywell Pressure	N/A	N/A	Drywell Pressure > 1.68 psig AND Indication of a leak inside drywell	N/A	Rapid, unexplained decrease in Drywell Pressure following initial increase OR Drywell pressure response not consistent with LOCA conditions	Drywell Pressure > 44 psig and increasing OR Drywell Hydrogen > 6% AND Drywell Oxygen > 5%			
Drywell Radiation	Drywell Rad Monitor reading > 4x10 ⁴ R/hr	N/A	Drywell Rad Monitor reading > 15 R/hr	N/A	N/A	Drywell Rad Monitor reading > 3x10 ⁵ R/hr			

3.2 Fission Product Barrier Status Table

Barrier	1	I Clad		Coolant System	Primary Containment			
Parameter	Loss	Potential Loss	Loss	Potential Loss	Loss	Potential Loss		
Containment solation	N/A	N/A	N/A	Unisolable primary system leakage outside drywell as indicated by T-103, Max Safe Operating Temperature is exceeded in ONE area requiring a SCRAM OR Unisolable primary system leakage outside drywell as indicated by T-103, Max Safe Operating Radiation is exceeded in ONE area requiring a SCRAM	Failure of both valves in any one line to close AND downstream pathway to the environment exists OR Intentional venting per T-200 OR T-228 is required OR Unisolable primary system leakage outside drywell as indicated by T-103, Max Safe Operating Temperature is exceeded in ONE area requiring a SCRAM OR Unisolable primary system leakage outside drywell as indicated by a T-103, Max Safe Operating Temperature is exceeded in ONE area requiring a sindicated by a T-103, Max Safe Operating Radiation is exceeded in ONE area requiring a SCRAM	N/A		
Emergency Director Judgement	Any condition in the judgeme that indicates Loss or Potenti barrier			ement of the Emergency Director tential Loss of the RCS barrier	Any condition in the judgement of the Emergency Dire that indicates Loss or Potential Loss of the Primary Containment barrier			

In the table below, circle all of the appropriate X's in each applicable row for each Loss or Potential Loss of Fission Product Barrier as determined by the table above.

Classify the event as identified in the table heading if all X's in a column under that heading are circled.

Fission Product Barrier Status		usual /ent	ALERT				SITE AREA EMERGENCY								GENERAL EMERGENCY			
Fuel Clad - Loss			Х			T	X		X	· · · · · ·	X	T	T	1	Y	V		$\overline{}$
Fuel Clad - Potential Loss				X		<u> </u>		X	 	X	- ^`	 x 	 	† 		_^	 	 ^-
Reactor Coolant System - Loss				T	X	 	X			X		 ^-	<u> </u>	 				
Reactor Coolant System-Potential Loss						X		X	X	<u> </u>			 ^	V		- ^-	^	
Primary Containment - Loss	Х										X	Y -	Y	+ · · ·				
Primary Containment - Potential Loss		Х									 ^	 ^	 ^ -	 ^	 ^ -	X	 ^	 ^
										****	•		<u> </u>	<u> </u>	PAR (2)	PAR	PAR	PAR

****PAR****

PAR (1) Evacuate out to 5 mile radius, shelter remaining areas of EPZ.

PAR (2) Evacuate out to 10 mile radius.

4.0 Secondary Containment Bypass

4.1 Main Steam Line

CLASSIFICATION	EMERGENCY ACTION LEVEL
UNUSUAL EVENT	IC Fuel Clad Degradation
	4.1.1 Applicable Opcons: 1, 2, 3
	Main Steam Line HiHi Radiation (3xNFPB)
ALERT	IC RCS Leak Rate
	4.1.2 Applicable Opcons: 1, 2, 3
	Indication of a Main Steam Line Break:
	Hi Steam Flow Annunciator <u>AND</u> Hi Steam Tunnel Temperature Annunciator
	<u>OR</u>
	Direct report of steam release
SITE AREA EMERGENCY	None
GENERAL EMERGENCY	None

5.0 Radioactivity Release

5.1 Effluent Release and Dose

CLASSIFICATION	EMERGENCY ACTION LEVEL
UNUSUAL EVENT	IC Any Unplanned Release of Gaseous or Liquid Radioactivity to the Environment that Exceeds Two Times the Radiological Technical Specifications for 60 Minutes or Longer
	5.1.1.a Applicable Opcons: ALL
	A valid reading on one or more of the following radiation monitors that exceeds TWO TIMES the HiHi alarm setpoint value for > 60 minutes:
	North Stack, South Stack, Radwaste Discharge, Service Water, RHRSW AND Calculated maximum offsite dose rate using computer dose model exceeds 0.114 mRem/hr TPARD OR 0.342 mRem/hr child thyroid CDE based on a
	60 minute average Note: If the required dose projections cannot be completed within the 60 minute period, then the declaration must be made based on the valid sustained monitor reading.
	5.1.1.b Applicable Opcons: ALL Confirmed sample analyses for gaseous or liquid releases indicates concentrations or release rates exceeding TWO TIMES Tech Specs (ODCM 3.2.2 and 3.2.3) for > 60 minutes
ALERT	IC Any Unplanned Release of Gaseous or Liquid Radioactivity to the Environment that Exceeds 200 Times Radiological Technical Specifications for 15 Minutes or Longer
	5.1.2.a Applicable Opcons: ALL
	A valid reading on one or more of the following radiation monitors that exceeds TWO HUNDRED TIMES the HiHi alarm setpoint value for > 15 minutes:
	North Stack, South Stack, Radwaste Discharge, Service Water, RHRSW AND
	Calculated maximum offsite dose rate exceeds 11.4 mRem/hr TPARD OR 34.2 mRem/hr child thyroid CDE based on a 15 minute average Note: If the required dose projections cannot be completed within the 15 minute period, then the declaration must be made based on the valid sustained monitor reading.
	5.1.2.b Applicable Opcons: ALL Confirmed sample analyses for gaseous or liquid releases indicates concentrations or release rates exceeding TWO HUNDRED TIMES Tech Specs (ODCM 3.2.2 and 3.2.3) for > 15 minutes

SITE AREA EMERGENCY

IC Boundary Dose Resulting from an Actual or Imminent Release of Gaseous Radioactivity Exceeds 100 mR Whole Body or 500 mR Child Thyroid for the Actual or Projected Duration of the Release

5.1.3 Applicable Opcons: ALL

A valid reading on one or more of the following radiation monitors that exceeds or is expected to exceed the value shown for > 15 minutes AND Dose Projections are not available:

North Stack

4.16E+6 µCi/second

South Stack

2.25E-3 μCi/cc

Note: If the required dose projections cannot be completed within the 15 minute period, then the declaration must be made based on the valid sustained monitor reading.

<u>OR</u>

Projected offsite dose using computer dose model exceeds 100 mRem TPARD OR 500 mRem child thyroid CDE OR

Analysis of Field Survey results indicate site boundary whole body dose rate exceeds 100 mRem/hr expected to continue for more than one hour, <u>OR</u>
Analysis of Field Survey results indicate child thyroid dose commitment of 500 mRem for one hour of inhalation

GENERAL EMERGENCY

IC Boundary Dose Resulting from an Actual or Imminent Release of Gaseous Radioactivity that Exceeds 1000 mR Whole Body or 5000 mR Child Thyroid for the Actual or Projected Duration of the Release Using Actual Meteorology

5.1.4 Applicable Opcons: ALL

A valid reading on one or more of the following radiation monitors that exceeds or is expected to exceed the value shown for > 15 minutes AND Dose Projections are not available:

North Stack

4.16E+7 µCi/second

South Stack

2.25E-2 μCi/cc

Note: If the required dose projections cannot be completed within the 15 minute period, then the declaration must be made based on the valid sustained monitor reading.

<u>OR</u>

Projected offsite dose using computer dose model exceeds 1000 mRem TPARD OR 5000 mRem child thyroid CDE OR

Analysis of Field Survey results indicate site boundary whole body dose rate exceeds **1000 mRem/hr** expected to continue for more than one hour, **OR** Analysis of Field Survey results indicate child thyroid dose commitment of **5000 mRem** for one hour of inhalation

PAR

Evacuate out to 5 mile radius, shelter remaining areas of EPZ.

5.0 Radioactivity Release

5.2 In-Plant Radiation

CLASSIFICATION	EMERGENCY ACTION LEVEL	
UNUSUAL EVENT	IC Unexpected Increase in Plant Radiation or Airborne Concentration	
	5.2.1 Applicable Opcons: ALL	
	Valid Direct Area Radiation Monitor readings increase by a factor of 1000 over normal* levels	
	* Normal levels can be considered as the highest reading in the past twenty-four hours excluding the current peak value.	
ALERT	IC Release of Radioactive Material or Increases in Radiation Levels Within the Facility That Impedes Operation of Systems Required to Maintain Safe Operations or to Establish or Maintain Cold Shutdown	
	5.2.2.a Applicable Opcons: ALL	
	Valid radiation level readings > 5000 mR/hr in areas requiring infrequent access to maintain plant safety functions as identified in procedure SE-1, SE-6, or FSSG.	
	<u>AND</u>	
	Access is required for safe plant operation, but is impeded, due to radiation dose rates	
	5.2.2.b Applicable Opcons: ALL	
	Valid Control Room <u>OR</u> Central Alarm Station radiation reading > 15 mR/hr	
SITE AREA EMERGENCY	None	
GENERAL EMERGENCY	None	

6.0 Loss of Power

6.1 Loss of AC or DC Power

6.1.1.a Applicable Opcons: ALL The following conditions exist: Loss of Power to 101 and 201 S AND At least Two Diesel Generators 4 KV emergency busses IC Unplanned Loss of Required DC Refueling Mode for Greater than 6.1.1.b Applicable Opcons: 4, 5 The following conditions exist: Unplanned Loss of ALL safety rel bus voltage indications for DC Pa AND Failure to restore power to at leas from the time of the loss IC AC power capability to essential if for greater than 15 minutes such result in station blackout 6.1.2.a Applicable Opcons: 1, 2,	ntial Busses for Greater Than 15 Minutes afeguard Transformers for >15 minutes are supplying power to their respective
6.1.1.a Applicable Opcons: ALL The following conditions exist: Loss of Power to 101 and 201 S AND At least Two Diesel Generators 4 KV emergency busses IC Unplanned Loss of Required DC Refueling Mode for Greater than 6.1.1.b Applicable Opcons: 4, 5 The following conditions exist: Unplanned Loss of ALL safety rel bus voltage indications for DC Pa AND Failure to restore power to at leas from the time of the loss IC AC power capability to essential the for greater than 15 minutes such result in station blackout 6.1.2.a Applicable Opcons: 1, 2, 3	
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AND At least Two Diesel Generators 4 KV emergency busses IC Unplanned Loss of Required DC Refueling Mode for Greater than 6.1.1.b Applicable Opcons: 4, 5 The following conditions exist: Unplanned Loss of ALL safety rel bus voltage indications for DC Pa AND Failure to restore power to at least from the time of the loss IC AC power capability to essential the for greater than 15 minutes such result in station blackout 6.1.2.a Applicable Opcons: 1, 2, 3	
At least <i>Two</i> Diesel Generators 4 KV emergency busses IC Unplanned Loss of Required DC Refueling Mode for Greater than 6.1.1.b Applicable Opcons: 4, 5 The following conditions exist: Unplanned Loss of ALL safety rel bus voltage indications for DC Pa AND Failure to restore power to at least from the time of the loss IC AC power capability to essential to for greater than 15 minutes such result in station blackout 6.1.2.a Applicable Opcons: 1, 2, 3	are supplying power to their respective
IC Unplanned Loss of Required DC Refueling Mode for Greater than 6.1.1.b Applicable Opcons: 4, 5 The following conditions exist: Unplanned Loss of ALL safety rel bus voltage indications for DC Pa AND Failure to restore power to at least from the time of the loss IC AC power capability to essential to for greater than 15 minutes such result in station blackout 6.1.2.a Applicable Opcons: 1, 2, 2	are supplying power to their respective
Refueling Mode for Greater than 6.1.1.b Applicable Opcons: 4, 5 The following conditions exist: Unplanned Loss of ALL safety rel bus voltage indications for DC Pa AND Failure to restore power to at leas from the time of the loss ALERT IC AC power capability to essential to for greater than 15 minutes such result in station blackout 6.1.2.a Applicable Opcons: 1, 2,	
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Unplanned Loss of ALL safety rel bus voltage indications for DC Pa AND Failure to restore power to at least from the time of the loss IC AC power capability to essential to for greater than 15 minutes such result in station blackout 6.1.2.a Applicable Opcons: 1, 2, 4	
ALERT bus voltage indications for DC Parameter AND Failure to restore power to at least from the time of the loss IC AC power capability to essential to for greater than 15 minutes such result in station blackout 6.1.2.a Applicable Opcons: 1, 2, 3	
Failure to restore power to at least from the time of the loss IC AC power capability to essential to for greater than 15 minutes such result in station blackout 6.1.2.a Applicable Opcons: 1, 2, 2	ated DC Power indicated by < 105 VDC nels 1(2)FA, B, C, D
for greater than 15 minutes such result in station blackout 6.1.2.a Applicable Opcons: 1, 2,	t one required DC bus within 15 minutes
	ousses reduced to a single power source that any additional single failure would
The following conditions exists	3
The following conditions exist:	
Loss of Power to 101 and 201 Sa	feguard Transformers for >15 minutes
AND	
Source due to the Loss of: Three	owered from a Single Onsite Power of Four Division Diesel Generators, D/G ncy Busses as indicated by bus voltage
IC Loss of All Offsite Power and Los Busses During Cold Shutdown Or	s of All Onsite AC Power to Essential Refueling Mode
6.1.2.b Applicable Opcons: 4, 5,)
The following conditions exist:	
Loss of Power to 101 and 201 Sa	eguard Transformers
Failure to restore power to at leas minutes from the time of loss of b	

SITE AREA EMERGENCY	IC	Loss of All Offsite Power and Loss of All Onsite AC Power to Essential Busses
	6.1.3.a	Applicable Opcons: 1, 2, 3
		The following conditions exist:
		Loss of Power to 101 and 201 Safeguard Transformers
	1	AND Failure to restore power to at least <i>One</i> 4 KV emergency bus within 15 minutes from the time of loss of both offsite and onsite AC
	IC	Loss of All Vital DC Power
	6.1.3.b	Applicable Opcons: 1, 2, 3
	1	ALL Safety Related DC Power indicated by < 105 VDC on DC Panels B, C, D for > 15 minutes
GENERAL EMERGENCY	l .	Prolonged Loss of All Offsite Power and Prolonged Loss of All Onsite AC Power
I I	6.1.4	Applicable Opcons: 1, 2, 3
	Prolong	ed loss of all offsite and onsite AC power as indicated by:
	I	oss of Power to 101 and 201 Safeguard Transformers
		AND Failure of ALL Emergency Diesel Generators to supply power to 4 KV
		emergency busses AND
	ļ A	At least one of the following conditions exist:
	•	Restoration of at least <i>One</i> emergency bus within <i>2 hours</i> is <i>NOT</i> likely
	•	<u>OR</u>
	•	Reactor Water Level cannot be maintained > -161 "
		<u>OR</u>
	•	Suppression Pool temperature is on the "UNSAFE" side of the Heat Capacity Temperature Limit (HCTL) curve (T-102, SP/T-1)
		PAR
	Evacua	te out to 5 mile radius, shelter remaining areas of EPZ.

7.0 Internal Events

7.1 Technical Specification & Control Room Evacuation

CLASSIFICATION	EMERGENCY ACTION LEVEL
UNUSUAL EVENT	IC Inability to Reach Required Shutdown Mode Within Technical Specification Limits
	7.1.1 Applicable Opcons: 1, 2, 3 Inability to reach required shutdown mode within Tech. Spec. LCO required action completion time.
ALERT	IC Control Room Evacuation Has Been Initiated
	7.1.2 Applicable Opcons: ALL
	Entry into SE-1 or SE-6 procedure for Control Room evacuation
SITE AREA EMERGENCY	IC Control Room Evacuation Has Been Initiated and Plant Control Cannot Be Established
	7.1.3 Applicable Opcons: ALL
	The following conditions exist:
	Control room evacuation has been initiated
	<u>AND</u>
	Control of the plant cannot be established per SE-1or SE-6 within
·	15 minutes
GENERAL EMERGENCY	None

7.0 Internal Events

7.2 Loss of Decay Heat Removal Capability

CLASSIFICATION	EMERGENCY ACTION LEVEL
UNUSUAL EVENT	None
ALERT	IC Inability to Maintain Plant in Cold Shutdown
	7.2.2 Applicable Opcons: 4, 5
	The following conditions exist:
	Unplanned Loss of <u>ALL</u> Tech Spec required systems available to provide Decay Heat Removal functions
	AND
	Uncontrolled Temperature increase that either:
	Exceeds 200 °F
	(Excluding a <15 minute rise >200° F with a heat removal function restored)
	<u>OR</u>
	 Results in temperature rise approaching 200 °F (with <u>NO</u> heat removal function restored)
SITE AREA	IC Complete Loss of Function Needed to Achieve or Maintain Hot Shutdown
EMERGENCY	7.2.3 Applicable Opcons: 1, 2, 3
	Loss of SUPPRESSION POOL heat sink capabilities as evidenced by T-102 SP/T legs directing a T-112 Emergency Blowdown
GENERAL EMERGENCY	None

7.0 Internal Events

7.3 Loss of Assessment / Communication Capability

CLASSIFICATION	EMERGENCY ACTION LEVEL
UNUSUAL EVENT	IC Unplanned Loss of Most or All Safety System Annunciation or Indication in The Control Room for Greater Than 15 Minutes
	7.3.1.a Applicable Opcons: 1, 2, 3
	Unplanned loss of most or all safety system annunciators (Table 7-1) <u>OR</u> indicators (Table 7-2) for > 15 minutes requiring increased surveillance to safely operate the unit(s).
	IC Unplanned Loss of All Onsite or Offsite Communications Capabilities
	7.3.1.b Applicable Opcons: ALL
	Loss of ALL Onsite communications (Table 7-3) affecting the ability to perform routine operations OR
	Loss of ALL Offsite communications (Table 7-3)
ALERT	Unplanned Loss of Most or All Safety System Annunciation or Indication In Control Room With Either (1) a Significant Transient in Progress, or (2) Compensatory Non-Alarming Indicators are Unavailable
	7.3.2 Applicable Opcons: 1, 2, 3
	Unplanned loss of most or all safety system annunciators (Table 7-1) <u>OR</u> indicators (Table 7-2) for > 15 minutes requiring increased surveillance to safely operate the unit(s) AND EITHER
	A significant plant transient is in progress (Table 7-4) OR the plant monitoring system (PMS) is unavailable.
SITE AREA	IC Inability to Monitor a Significant Transient in Progress
EMERGENCY	7.3.3 Applicable Opcons: 1, 2, 3
	Loss of safety system annunciators (Table 7-1)
	AND indicators (Table 7-2) AND PMS
	AND a significant plant transient is in progress. (Table 7-4)
GENERAL EMERGENCY	None

Table 7-1 Safety System Annunciators

ECCS

Containment Isolation Reactor Trip

Process Radiation Monitoring

Table 7-2 Safety Function Indicators

Reactor Power
Decay Heat Removal
Containment Safety Functions

Table 7-3 Communications

	Onsite	Offsite
Site Phones (Dimension 2000)	Χ	Χ
PRELUDE System	Χ	Χ
Plant Public Address	Χ	
Station Radio	Χ	
NRC (FTS-2000)		Χ
PA State Police Radio		Χ
County Police Radio		Χ
Load Dispatcher Radio		Χ
PECO Dial Network		Χ

<u> fable 7-4 Significant Plant Transients</u>

SCRAM

Recirc Runbacks > 25% thermal power
Sustained power oscillations 25% peak to peak
Stuck open relief valve(s)
ECCS injection

8.0 External Events

8.1 Security Threats

CLASSIFICATION	EMERGENCY ACTION LEVEL
UNUSUAL EVENT	IC Confirmed Security Event Which Indicates a Potential Degradation in the Level of Safety of the Plant
	8.1.1 Applicable Opcons: ALL
	Credible sabotage or bomb threat within the Protected Area OR
	Credible intrusion and attack threat to the Protected Area OR
	Attempted intrusion and attack to the Protected Area OR
	Attempted sabotage discovered within the Protected Area OR
	Hostage/Extortion situation that threatens normal plant operations
ALERT	IC Security Event in a Plant Protected Area
7	8.1.2 Applicable Opcons: ALL
	Intrusion into plant protected area by a hostile force OR
	Confirmed bomb, sabotage or sabotage device discovered in the Protected Area
CITE ADEA	IC Security Event in a Plant Vital Area
SITE AREA EMERGENCY	
LINEROLITO	8.1.3 Applicable Opcons: ALL
	Intrusion into plant Vital area by a hostile force OR
	Confirmed bomb, sabotage or sabotage device discovered in a Vital Area
CENEDAL	IC Security Event Resulting in Loss of Ability to Reach and Maintain Cold
GENERAL EMERGENCY	Shutdown
	8.1.4 Applicable Opcons: ALL
	Loss of physical control of the control room due to security event OR
	Loss of physical control of the remote shutdown capability due to security event ***PAR****
	Evacuate out to 5 mile radius, shelter remaining areas of EPZ.

8.0 External Events

8.2 Fire / Explosion and Toxic / Flammable Gases

CLASSIFICATION	EMERGENCY ACTION LEVEL
UNUSUAL EVENT	IC Fire Within Protected Area Boundary Not Extinguished Within 15 Minutes of Detection
	8.2.1.a Applicable Opcons: ALL
	Fire within Plant Vital Structures (Table 8-1) which is not extinguished within 15 minutes of control room notification or verification of a control room alarm
	IC Release of Toxic or Flammable Gasses Deemed Detrimental to Safe Operation of the Plant
	8.2.1.b Applicable Opcons: ALL Report or detection of toxic or flammable gases that could enter within the site area boundary in amounts that can affect normal operation of the plant OR
	Report by Local, County or State Officials for potential evacuation of site personnel based on offsite event
	IC Natural and Destructive Phenomena Affecting the Protected Area
	8.2.1.c Applicable Opcons: ALL
	Report by plant personnel of an unanticipated explosion within protected area boundary resulting in visible damage to permanent structure or equipment
ALERT	IC Fire or Explosion Affecting the Operability of Plant Safety Systems Required to Establish or Maintain Safe Shutdown
	8.2.2.a Applicable Opcons: ALL
	The following conditions exist:
	Fire or explosion which potentially makes inoperable:
	Two or More subsystems of a Safe Shutdown System (Table 8-2) <u>OR</u> Two or More Safe Shutdown Systems <u>OR</u> Plant Vital Structures containing Safe Shutdown Equipment
	AND Safe Shutdown System or Plant Vital Structure is required for the present Operational Condition

ALERT	IC Release of Toxic or Flammable Gases Within a Facility Structure Which Jeopardizes Operation of Systems Required to Maintain Safe Operations or to Establish or Maintain Cold Shutdown
	8.2.2.b Applicable Opcons: ALL
	Report or detection of toxic gases within Plant Vital Structures (Table 8-1) in concentrations that will be life threatening to plant personnel
	OR Report or detection of flammable gases within Plant Vital Structures (Table 8-1) in concentrations affecting the safe operation of the plant
SITE AREA EMERGENCY	None _
GENERAL EMERGENCY	None

Table 8-1 Plant Vital Structures

Reactor Enclosure Control Enclosure Turbine Enclosure Diesel Generator Enclosure Spray Pond Pump House/Spray Network

Table 8-2 Safe Shutdown Systems

Diesel Generators 4KV Safeguard Buses ADS

HPCI RCIC RHR (All Modes)

Core Spray RHR Service Water ESW SGTS RERS CAC

PCIS Control Room Ventilation

8.0 External Events

8.3 Man-Made Events

CLASSIFICATION	EMERGENCY ACTION LEVEL							
UNUSUAL EVENT	IC Destructive Phenomena Affecting the Protected Area							
	8.3.1.a Applicable Opcons: ALL							
-	Vehicle crash within protected area boundary that may potentially damage plant structures containing functions and systems required for safe shutdown of the plant.							
	8.3.1.b Applicable Opcons: ALL							
	Report of turbine failure resulting in casing penetration or damage to turbine or generator seals.							
ALERT	IC Destructive Phenomena Affecting the Plant Vital Area							
	8.3.2 Applicable Opcons: ALL							
	Vehicle crash affecting Plant Vital Structures (Table 8-1)							
l .	<u>OR</u>							
	Turbine failure generated missiles result in any visible structural damage to or penetration of any Plant Vital Structures (Table 8-1)							
SITE AREA EMERGENCY	None							
GENERAL EMERGENCY	None							

Table 8-1 Plant Vital Structures

Reactor Enclosure Control Enclosure Turbine Enclosure Diesel Generator Enclosure Spray Pond Pump House/Spray Network

8.0 External Events

8.4 Natural Events

CLASSIFICATION	EMERGENCY ACTION LEVEL							
UNUSUAL EVENT	IC Natural and Destructive Phenomena Affecting the Protected Area							
	8.4.1.a Applicable Opcons: ALL							
	Earthquake >.005 g as determined by procedure SE-5							
	8.4.1.b Applicable Opcons: ALL							
	Report by plant personnel of tornado striking within protected area OR							
	Wind speeds > 75 mph as indicated on site Meteorological data for > 15 minutes							
	8.4.1.c Applicable Opcons: ALL Assessment by the control room that an event has occurred. (Natural and Destructive Phenomena Affecting the Protected Area)							
ALERT	IC Natural and Destructive Phenomena Affecting the Plant Vital Area							
II.	8.4.2.a Applicable Opcons: ALL							
	Earthquake >.075 g (Operating Basis Earthquake OBE) as determined by procedure SE-5							
	8.4.2.b Applicable Opcons: ALL							
	Tornado or wind speeds > 75 mph causing damage to Plant Vital Structures (Table 8-1)							
	8.4.2.c Applicable Opcons: ALL							
	Report of any visible structural damage to any Plant Vital Structure (Table 8-1)							
SITE AREA EMERGENCY	None							
GENERAL EMERGENCY	None							

Table 8-1 Plant Vital Structures

Reactor Enclosure
Control Enclosure
Turbine Enclosure
Diesel Generator Enclosure
Spray Pond Pump House/Spray Network

9.0 Other

9.1 General

CLASSIFICATION	EMERGENCY ACTION LEVEL					
UNUSUAL EVENT	IC Other Conditions Existing Which in the Judgement of the Emergency Director Warrant Declaration of an Unusual Event					
	9.1.1 Applicable Opcons: ALL					
	Other conditions exist which in the judgement of the Emergency Director indicate a potential degradation of the level of safety of the plant					
ALERT	IC Other Conditions Existing Which in the Judgement of the Emergency Director Warrant Declaration of an Alert					
	9.1.2 Applicable Opcons: ALL					
	Other conditions exist which in the Judgement of the Emergency Director indicate that plant safety systems may be degraded and that increased monitoring of plant functions is warranted					
SITE AREA EMERGENCY	IC Other Conditions Existing Which in the Judgement of the Emergency Director Warrant Declaration of Site Area Emergency					
	9.1.3 Applicable Opcons: ALL					
	Other conditions exist which in the Judgement of the Emergency Director indicate actual or likely major failures of plant functions needed for protection of the public					
GENERAL EMERGENCY	IC Other Conditions Existing Which in the Judgement of the Emergency Director Warrant Declaration of General Emergency					
	9.1.4 Applicable Opcons: ALL					
	Other conditions exist which in the Judgement of the Emergency Director indicate: (1) actual or imminent substantial core degradation with potential for loss of containment, or (2) potential for uncontrolled radionuclide releases. These releases can reasonably be expected to exceed EPA PAG plume exposure levels outside the site boundary					
	PAR					
	Evacuate out to 5 mile radius, shelter remaining areas of EPZ.					

Appendix ERP-101-13 TERMS AND DEFINITIONS

EMERGENCY ACTION LEVEL (EAL) OPERABLE	Plant parameters or other condition which if met or exceeded the emergency classification level and requires a declaration of emergency.	I	SUAL ENT	Events in progress or have occurred, that indicate a potential degradation of the level of safety of the plant. No releases of radioactive material requiring off-site response or monitoring are expected unless further degradation of safety systems occurs.
OF EMOLE	System, subsystem, train, component, or device, and all auxiliaries required for their operation, is capable of performing its specified function in the intended manner.			
PROTECTIVE ACTION RECOMMENDATIONS (PAR)	Recommendation made to the state action to be taken to avoid or reduce projected dose to the public.	AL:	ERT	Events in progress or have occurred that involve actual or potential substantial degradation of the level of safety of the plant. Any releases of radioactive material are expected to be limited to small fractions of the Environmental Protective Agency (EPA) Protective Action Guidelines (PAG) exposure levels.
PROJECTED DOSE	An estimate of radiation dose which affected individuals could potentially receive if protective actions are not taken.			
TPARD	Total Protective Action Recommendation Dose. (TPARD = External Dose & Inter- nal Dose & Dose Due to 4-Day Shine)			
CDE	Committed Dose Equivalent. (CDE = in- ternal Organ Dose from Ingestion)			
CEDE	Committed Effective Dose Equivalent. (CEDE = Internal Whole Body Dose from Ingestion)			
TEDE	Total Effective Dose Equivalent. (TEDE = Deep Dose Equivalent & CEDE Dose)			
PROTECTIVE ACTION GUIDE (PAG)	Action guidelines based on projections for the total integrated dose a member of the public would receive for the duration of the emergency.		AREA GENCY	Events in progress or which have occurred that involve actual or likely major failures of plant functions needed for protection of the public. Any releases of radioactive material are not expected to exceed EPA PAG exposure levels except near site boundary.
SAHOTAGE	An act conducted by a person or persons with the intent of damaging or impairing the operation of the plant.			•
SECURITY COMPROMISE	A security threat as illustrated by attempted entry or sabotage with the intent to gain physical control of the plant.	100000000000000000000000000000000000000	ERAL GENCY	Events in progress or which have occurred that involve actual or imminent substantial core degradation or melting with potential for loss of containment integrity. Releases of radioactive material can be reasonably expected to exceed EPA PAG exposure levels off-site for more than the immediate site area.

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:

			CURR				
540	DOC PROC	DDOCEDURE NUMBER	REV	EMERGENCY OPERATIONS FACILITY (EOF) ACTIVATION/DEACTIVATION EOF ACTIVATION CHECKLIST EOF DEACTIVATION CHECKLIST EOF BUSINESS HOURS FIRST RESPONDER CHECKLIST EOF BUSINESS HOURS FIRST RESPONDER CHECKLIST EOF STAFF AUGMENTATION INCORPORATED INTO ERPC-C-1250 EMERGENCY RESPONSE MANAGER EMERGENCY PREPAREDONSE MANAGER EMERGENCY PREPAREDONSE MANAGER EMERGENCY PREPAREDONSE MANAGER EMERGENCY PREPAREDONSE MANAGER (AERM) CANCELLED EMERGENCY POWER INSTRUCTIONS EMERGENCY PREPAREDNESS COORDINATOR/EOF EMERGENCY POWER INSTRUCTIONS EMERGENCY PREPAREDNESS COORDINATOR INSTRUCTIONS FOR ASPEN BACKUP NOTIFICATION SYSTEM EMERGENCY PREPAREDNESS COORDINATOR INSTRUCTIONS TO STOP STAFFING ENERGENCY PREPAREDNESS COORDINATOR INSTRUCTIONS FOR SYSTEM EMERGENCY OPERATIONS FACILITY (EOF) DOSE ASSESSMENT TEAM LEADER DOSE ASSESSMENT TURNOVER LIST PROTECTIVE ACTION RECOMMENDATION WORKSHEET OFFSITE SAMPLE ANALYSIS REQUESTS DETERMINATION OF PROTECTIVE ACTION RECOMMENDATIONS (PARS) DOSE ASSESSMENT TURNOVER LIST PROTECTIVE ACTION RECOMMENDATION WORKSHEET OFFSITE SAMPLE ANALYSIS REQUESTS DETERMINATION OF PROTECTIVE ACTION RECOMMENDATIONS (PARS) DOSE ASSESSMENT GROUP INITIAL ACTIONS OBTAINING EPDS MET/RAD DATA USE OF MODE A/MODE B CDM OBTAINING MET DATA FROM NATIONAL WEATHER SERVICE EMERGENCY OPERATIONS FACILITY (EOF) DOSE ASSESSMENT GROUP CANCELLED DOSE ASSESSMENT GROUP LEADER INITIAL ACTIONS CANCELLED OBTAINING MET DATA FROM NATIONAL WEATHER SERVICE EMERGENCY OPERATIONS FACILITY (EOF) FIELD SURVEY GROUP LEADER FIELD SURVEY GROUP LEADER INITIAL ACTIONS CANCELLED OBTAINING EPDS MET/RAD DATA CANCELLED OBTAINING MET DATA FROM NATIONAL WEATHER SERVICE EMERGENCY OPERATIONS FACILITY (EOF) FIELD SURVEY GROUP LEADER FIELD SURVEY GROUP LEADER TURNO	EFFECTIVE	RESP	SYSTEM
PAC	TYPE TYPE	PROCEDURE NUMBER	ИВК	ITILE	DATE	GROUP	NBR
LG	PROC ERP	ERP-C-1000	0005	EMERGENCY OPERATIONS FACILITY (EOF) ACTIVATION/DEACTIVATION	04/21/99		
LG	PROC ERP	ERP-C-1000-1	0003	EOF ACTIVATION CHECKLIST	03/30/01		
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-1100	0003	EOF STAFF AUGMENTATION	09/14/94		
				INCORPORATED INTO ERP-C-1250			
LG	PROC ERP	ERP-C-1200	0010	EMERGENCY REPSONSE MANAGER	03/30/01	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	10/24/95		
				CANCELLED			
LG	PROC ERP	ERP-C-1200-3	0000	ERM PAR DELIVERY CHECKLIST	04/03/00		
L.G	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)	10/24/95		
	* * * * * * * * * * * * * * * * * * * *			CANCELLED			
LG	PROC ERP	ERP-C-1250	0003	EMERGENCY PREPAREDNESS COORDINATOR/EOF	11/02/98		
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	05/11/01		
				BACKUP NOTIFICATION SYSTEM	007 117 01		
LG	PROC ERP	ERP-C-1250-3	0000	EMERGENCY PREPAREDNESS COORDINATOR INSTRUCTIONS TO STOP	09/14/94		
				STAFFING			
LG	PROC ERP	ERP-C-1250-4	0000	ENERGENCY PREPAREDNESS COORDINATOR INSTRUCTIONS FOR SYSTEM	09/14/94		
				RESET			
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	0003	DOSE ASSESSMENT TEAM LEADER INITIAL ACTIONS	04/03/00		
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	11/02/98		
				RECOMMENDATIONS (PARS)			
LG	PROC ERP	ERP-C-1300-6	0001	DOSE ASSESSMENT GROUP INITIAL ACTIONS	04/10/98		
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	03/26/97		
				CANCELLED			
LG	PROC ERP	ERP-C-1310-1	0000	DOSE ASSESSMENT GROUP LEADER INITIAL ACTIONS	03/26/97		
				CANCELLED			
LG	PROC ERP	ERP-C-1310-2	0000	OBTAINING MET DATA FROM NATIONAL WEATHER SERVICE	03/26/97		
				CANCELLED	00/ 20/ 0/		
LG	PROC ERP	ERP-C-1310-3	0000	OBTAINING EPDS MET/RAD DATA	03/26/97		
		2 5 .2.2 2		CANCELLED	00, 20, 0,		
LG	PROC ERP	ERP-C-1310-4	0000	USE OF MODE A / MODE B OF CDM	03/26/97		
				CANCELLED	-30. 0.		
LG	PROC ERP	ERP-C-1320	0007	EMERGENCY OPERATIONS FACILITY (EOF) FIELD SURVEY GROUP LEADER	08/29/00		
ĹĠ	PROC ERP	ERP-C-1320-1	0002	FIELD SURVEY GROUP LEADER INITIAL ACTIONS	04/10/98		
ĹĠ	PROC ERP	ERP-C-1320-2	0001	FIELD SURVEY GROUP LEADER TURNOVER SHEET	03/26/97		
L.G	PROC ERP	ERP-C-1320-3	0002	FIELD SURVEY GROUP LEADER DATA SHEET	08/29/00		
ĹĞ	PROC ERP	ERP-C-1400	0004	ENGINEERING SUPPORT TEAM	11/02/98		
LG	PROC ERP	ERP-C-1400-1	0002	ENGINEERING SUPPORT TEAM CHECKLIST	11/02/98		
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LIMERICK GENERATING STATION

PROCEDURE INDEX REPORT:

			CURR REV NBR TITLE 0002 CORE DAMAGE ASSESSMENT 0000 RADIOLOGICAL DATA 0001 HYDROGEN CONCENTRATION DATA 0001 HYDROGEN CONCENTRATION MONITOR DATA 0000 METAL WATER REACTION CANCELLED 0002 PERCENT OF FUEL INVENTORY AIRBORNE IN THE CONTAINMENT VS. APPROXIMATE SOURCE AND DAMAGE ESTIMATE 0001 PROCEDURES FOR ESTIMATING FUEL DAMAGE BASED ON MEASURED 1-131 AND XE-133 CONCENTRATIONS 0006 LOGISTIC SUPPORT TEAM 0010 MESSAGE AND INFORMATION INSTRUCTIONS 0001 HELICOPTER LANDING INFORMATION 0004 RECOVERY PHASE IMPLEMENTATION 0000 RECOVERY PHASE IMPLEMENTATION FLOW CHART 0002 PEACH BOTTOM ATOMIC POWER STATION RECOVERY ACCEPTANCE CHECKLIST 0002 RECOVERY PHASE IMPLEMENTATION FLOW CHART 0002 RECOVERY PHASE IMPLEMENTATION 0002 RECOVERY PHASE IMPLEMENTATION 0003 REGOVERY PHASE IMPLEMENTATION FLOW CHART 0002 RECOVERY PHASE IMPLEMENTATION FLOW CHART 0003 RESTATION FOR THE REGENCIES 0001 LGS EAS INTENDENT OF THE REGENCIES 0001 LGS EAS INTENDENT OF THE REGENCIES 0001 LGS EAS INTENDENT OF THE REGENCY COMMUNICATIONS 0009 STAFFING AUGMENTATION 0004 SERREGENCY COMMUNICATIONS EQUIPMENT CHECK LIST 0000 OSC DIRECTOR ACTIVATION CHECK-OFF LIST 0001 TURNOVER OF DOSE ASSESSMENT TEAM 0000 DOSE ASSESSMENT TEAM CHECK-OFF LIST 0001 TURNOVER OF DOSE ASSESSMENT TEAM 0000 DOSE ASSESSMENT TEAM CHECK-OFF LIST 0001 TURNOVER OF DOSE ASSESSMENT TEAM 0001 DATAINING METEROLOGICAL DATA FROM NATIONAL WEATHER SERVICE 0001 DATAINING METEROLOGICAL DATA FROM NATIONAL WEATHER SERVICE 0001 DATAINING METEROLOGICAL DATA FROM NATIONAL			
	DOC PROC	DOGGERUPE NUMBER	REV	EFFECTIVE	DESD	SVSTEM
FAC	TYPE TYPE	PROCEDURE NUMBER	NBR TITLE	DATE	GROUP	
					u	ND.
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	09/09/98		
			CANCELLED			
LG	PROC ERP	ERP-C-1410-5	0002 PERCENT OF FUEL INVENTORY AIRBORNE IN THE CONTAINMENT VS.	06/01/01		
	0000 500	EDD 0 4440 0	APPROXIMATE SOURCE AND DAMAGE ESTIMATE			
LG	PROC ERP	ERP-C-1410-6	0001 PROCEDURES FOR ESTIMATING FUEL DAMAGE BASED ON MEASURED	09/09/98		
	DD06	EDD C 1500	1-131 AND XE-133 CONCENTRATIONS			
LG	DDOC EDD	ERP-C-1500	UUUD LUGISIIC SUPPURI IEAM	04/14/00		
LG	DDAC EDD	ERP-C-1500-1	UDU I MESSAGE AND INFORMATION INSTRUCTIONS	10/24/95		
I G	DDUC EDD	EDD-C-1900-2	0001 DECOVEDY DHASE INDICATION	10/24/95		
LG	PROC ERP	FRP-C-1900	ODOG RECOVERY PHASE IMPLEMENTATION FLOW CHART	11/02/98		
i G	PROC ERP	ERP-C-1900-2	0002 PEACH BOTTOM ATOMIC POWER STATION PECOVERY ACCEPTANCE CHECKLIST	00/28/93		
LĞ	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	0012 CLASSIFICATION OF EMERGENCIES	06/12/01	LWE	
LG	PROC ERP	ERP-101 BASES	0001 LGS EAL TECHNICAL BASIS MANUAL	03/30/01		
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	0006 STATION EVACUATIONS	11/14/97	LWE	
LG	PROC ERP	ERP-140	0009 STAFFING AUGMENTATION	02/03/98	LWE	
LG	PROC ERP	ERP-200	0014 EMERGENCY DIRECTOR (ED) RESPONSE	03/27/01	LWE	
LG	PROC ERP	ERP-200-1 APP	UD11 EMERGENCY NOTIFICATION MESSAGE FORM	03/27/01	LWE	
LG	PROC ERP	ERP-200-2 APP	UUUU DUSE ASSESSMENT DATA SHEET	06/20/00		
LG	DDOC EDD	ERP-230	0004 OPERATIONS SUPPORT CENTER (USC) DIRECTOR	04/14/00	LWE	
1.0	DDAC EDD	EDD-230 APPENDIX 1	0000 OSC - EMERGENCY COMMUNICATIONS EQUIPMENT CHECK [15]	04/14/00		
I G	PROC ERF	ERD-230 APPENDIX 2	ONDO OPERATIONS SUPPORT CENTED FACILITY ACCOUNTABILITY LOC	04/14/00		
ĪG	PROC ERP	FRP-230 APPENDIX 4	0000 OSC DIRECTOR ACTIVATION	04/14/00		
LG	PROC ERP	ERP-300	0022 TSC/MCR DOSE ASSESSMENT TEAM	04/14/00	LWE	
LG	PROC ERP	ERP-300 APPENDIX 1	0000 DOSE ASSESSMENT TEAM ACTIVATION	04/03/00	LWE	
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 ASSESSMEMT 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 RADIÓLOGÍCAL 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 METEROLOGICAL 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	UUUU UPERAIION OF IBM PS/2 MODEL L40SX	04/03/00		
LG	PROC ERP	ERP-300 APPENDIX 12	UNUU LIMERICK LIQUID RELEASE DOSE CALCULATIONS	04/03/00		
LG	PRUC ERP	EKP-300 APPENDIX 13	UUUU DUSE ASSESMENI SELF-CHECK	04/03/00		
LG	PROC ERP	ERP-300 APPENDIX 14	OOOO OPEDATION OF THE DOSE ASSESSMENT COMPUTED (ON A)	04/03/00		
1.6	DDOC EDD	EDD-326	ODDO CHIEF DOSE ASSESSMENT COMPUTER (CM-4)	06/20/00		
Lu	FRUC ERP	LKF 320	OGG SHITT DOGE ASSESSMENT PERSONNEL (SDAP)	06/20/00		

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PROCEDURE INDEX REPORT:

** END OF REPORT **

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

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FILE STATISTICS	- CA-EASY	TRIEVE PLUS	6.2 9904	1- 6/08/01·	- 7.52-JSN01701		
TCDDRWNG	149,800	INPUT	VSAM	UNDEF		4089	18432
DRWNG 1	0	INPUT	VSAM	UNDEF		4089	18432
TCDFCTMT	0	INPUT	VSAM	UNDEF		4089	18432
TCDACTNR	0	INPUT	VSAM	UNDEF		4089	18432
TCDALPHA	0	INPUT	VSAM	UNDEF		4089	4096
PARMFL	18	INPUT	SAM	FIX BLK		80	80
DDIDFL	14	INPUT	SAM	FIX BLK		80	80
MACROFL	759	INPUT	SAM	FIX BLK		80	12960
EZTR002	0	OUTPUT	VFM	FIX BLK		1	N/A
EZTR003	0	OUTPUT	VFM	FIX BLK		593	N/A
EZTR004	138	INPUT	VFM	FIX BLK		365	N/A
EZTRO05	0	OUTPUT	VFM	FIX BLK		332	N/A
EZTRO06	0	OUTPUT	VFM	FIX BLK		250	N/A