Station Support Department

PECO ENERGY

10CFR50, Appendix E

PECO Energy Company
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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 are the following procedure revisions to the 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.

- ERP-300, Revision 22, "TSC/MCR Dose Assessment Team"
- ERP-300, Appendix 1, Revision 0, "Dose Assessment Team Activation"
- ERP-300, Appendix 2, Revision 0, "Dose Assessment Team Check-Off List"
- ERP-300, Appendix 3, Revision 0, "Turnover of Dose Assessment Responsibilities"
- ERP-300, Appendix 4, Revision 0, "Dose Assessment Data Sheet"
- ERP-300, Appendix 5, Revision 0, "Use of Mesorem, Jr. Auto Mode A"
- ERP-300, Appendix 6, Revision 0, "Obtaining Radiological Data"
- ERP-300, Appendix 7, Revision 0, "Obtaining Met Data From Plant Monitoring System (PMS)"
- ERP-300, Appendix 8, Revision 0, "Obtaining Meteorological Data From National Weather Service"
- ERP-300, Appendix 9, Revision 0, "Protective Action Worksheet"
- ERP-300, Appendix 10, Revision 0, "Use of North Stack Dose Rate to Estimate Release Source Term"
- ERP-300, Appendix 11, Revision 0, "Operation of IBM PS/2 Model L40SX"
- ERP-300, Appendix 12, Revision 0, "Limerick Liquid Release Dose Calculations"
- ERP-300, Appendix 13, Revision 0, "Dose Assessment Self-Check"
- ERP-300, Appendix 14, Revision 0, "Stability Class Determination"

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

A045

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

Very truly yours,

James A. Hutton
Director - Licensing

Attachments

cc: H. J. Miller, Administrator, Region I, USNRC (2 copies)
W. F. Kane, Director of Materials Safety & Safeguard, USNRC
A. L. Burritt, USNRC Senior Resident Inspector, LGS (w/o enclosures)

PECO NUCLEAR
LIMERICK GENERATING STATION
EMERGENCY RESPONSE PROCEDURE

ERP-300 TSC/MCR DOSE ASSESSMENT TEAM

1.0 RESPONSIBILITIES

1.1 Health Physics Technician On-Shift performs dose assessment activities as necessary or until relieved.

1.1.1 HP Technician on shift reports to the TSC as directed by the Dose Assessment Coordinator (DAC).

1.2 Dose Assessment Coordinator (DAC) coordinates Dose Assessment and Field Survey activities
AND advises Emergency Director on Protective Action Recommendations based on dose projections.

2.0 INITIAL ACTIONS

> NOTE
>
> IMPLEMENTATION OF THIS PROCEDURE DOES NOT CONSTITUTE IMPLEMENTATION OF THE EMERGENCY PLAN.

2.1 Health Physics Technician On-Shift shall:

2.1.1 Complete ERP-300, Appendix 4, Dose Assessment Data Sheet

2.1.2 **IF** unmonitored release in progress
THEN determine wind direction
AND request Health Physics Team Leader/Health Physics Group Leader dispatch field survey team to downwind locations.

2.1.2.1 **IF** unmonitored release point is North Stack
THEN perform ERP-300, Appendix 10.

2.1.3 Perform start-up of equipment per ERP-300, Appendix 5.

2.1.3.1 **IF** equipment failure occurs,
THEN using a D1512 key, relocate to TSC Dose Assessment Room.

2.1.4 If effluent release monitor is in alarm condition, perform Mesorem, Jr. projections per ERP-300, Appendix 5.

2.1.5 Review results of dose projections with the Shift Manager immediately (ED).

WARNING

THE BASIS FOR THE UNUSUAL EVENT DETERMINATION PER ERP-101-6, "RADIOLOGICAL EFFLUENT RELEASE" IS HI-HI EFFLUENT ALARM FOR GREATER THAN 1 HOUR AND

≥ .114 mRem/hr TPARD BASED ON 60 MIN AVERAGE DATA

OR

≥ .342 CHILD THYROID CDE BASED ON 60 MIN AVERAGE DATA

15 MINUTE AVG DATA IS USED FOR ALERT, SITE AREA EMERGENCY OR GENERAL EMERGENCY DECLARATIONS

2.1.5.1 **IF** the EAL summary on Page 2 of the Mesorem Jr. print out indicates an EAL has been exceeded:

A. Complete the Dose Assessment Portion of ERP-300, Appendix 9.

B. Review with Shift Manager/ED immediately.

2.1.5.2 **IF** a PAR is required
OR if requested by Emergency Director
THEN complete dose assessment portion of ERP-300, Appendix 9
AND review with Shift Manager immediately.

2.1.6 **IF** release rate
OR meteorological conditions change substantially
THEN repeat section 2.1 of this procedure.

2.1.7 **WHEN** contacted by TSC DAC
THEN provide turnover using ERP-300, Appendix 3.

2.1.7.1 Upon completion of ERP-300, Appendix 3 report to TSC to assist DAC.

2.1.7.2 Inform Shift Manager that dose assessment activities will be performed in the TSC.

2.2 TSC Dose Assessment Coordinator shall:

2.2.1 Complete ERP-300, Appendix 2.

2.2.2 Obtain wind speed, wind direction, Delta-T and report results to the Emergency Director and hang appropriate stability class isopleth on EPZ maps per Appendix ERP-300, Appendix 14.

2.2.3 Coordinate formation of Field Survey Teams per Appendix ERP-300, Appendix 3.

2.2.4 Inform the Field Survey Teams of the projected dose ratio.

NOTE

TURNOVER OF DOSE ASSESSMENT RESPONSIBILITIES TO THE TSC DOSE ASSESSMENT COORDINATOR SHALL OCCUR WHEN HP TECH ON SHIFT IS DIRECTED TO REPORT TO THE TSC REGARDLESS OF TSC ACTIVATION STATUS.

2.2.5 When DAC is ready to assume dose assessment responsibilities
THEN:

2.2.5.1 Assume responsibility for all Dose Assessment activities.

2.2.5.2 Inform the ED that Dose Assessment is being performed in the TSC.

2.2.6 Direct Shift Dose Assessment Person to perform dose projections and calculations as necessary.

2.2.7 Review results of dose projections.

2.2.7.1 **IF** EAL summary on Page 2 of printout indicates an EAL has been exceeded:

A. Complete the Dose Assessment Portion of ERP-300, Appendix 9.

B. Review with Emergency Director immediately.

2.2.7.2 **IF** conditions exist that indicate a PAG is exceeded at the EPZ boundaries or field survey measurements identify that a PAG is exceeded outside of the EPZ boundary,
THEN include a PAR based on best information from all sources for areas outside of the EPZ on ERP-300, Appendix 9, "Protective Action Worksheet".

2.2.7.3 **IF** a PAR is required
OR if requested by Emergency Director
THEN complete dose assessment portion of ERP-300, Appendix 9
AND review with Emergency Director immediately.

2.2.7.4 **IF** release rate
OR meteorological conditions change substantially
THEN provide turnover using Appendix ERP-300, Appendix 3.

2.2.8 Determine appropriate site evacuation area and route, per ERP-120, Station Evacuation (Ref. 6.5.7).

2.2.9 **IF** notified that Field Survey Group MPC-hr iodine exceeds 850 DAC hours
OR is projected to exceed 950 DAC hours
THEN rotate teams
OR initiate actions to issue KI to field teams per ERP-660.

2.2.10 **IF** notified by Field Survey Group that offsite iodine concentration exceeds 2.6 X 10^{-6} uCi/cc
THEN calculate child thyroid dose commitment
Dose Rate = 1.94 x 10 P9 x Iodine Conc. (uCi/cc)
AND notify ED of General Emergency condition.

2.2.11 **IF** notified by Field Survey Group that offsite dose rate equals or exceeds 1000 mr/hr
THEN notify ED of General Emergency condition.

NOTE

THE FOLLOWING PROTECTIVE MEASURE SHOULD BE CONSIDERED ONLY AFTER SAMPLE DATA VERIFIES THE PRESENCE OF IODINE.

2.2.12 **IF** projected or actual iodine deposition is greater than 0.13 uci/m^2 (1.5 Rem ingestion dose)
THEN inform ED to recommend sheltering all lactating dairy animals and putting them on stored feed and water.

NOTE

THE FOLLOWING PROTECTIVE MEASURE SHOULD BE CONSIDERED ONLY AFTER FIELD SURVEY DATA INDICATING IODINE DEPOSITION IS RECEIVED AND VERIFIED.

2.2.13 **IF** notified that actual field samples indicate iodine deposition >1.3 uci/m^2
THEN inform Emergency Director to recommend to state.

2.2.13.1 Isolate contaminated food products and prevent introduction into commerce.

2.2.13.2 Determine whether condemnation or other disposition is appropriate after consideration of food products in question.

3.0 CONTINUING ACTIONS

3.1 Dose Assessment Coordinator shall:

NOTE

TRANSFER OF DOSE ASSESSMENT RESPONSIBILITY FROM TSC TO EOF SHALL BE PERFORMED UPON AGREEMENT OF EMERGENCY DIRECTOR, EMERGENCY RESPONSE MANAGER AND DOSE ASSESSMENT TEAM LEADER AT EOF AND THE DAC AT THE TSC.

3.1.1 **WHEN** contacted by EOF Dose Assessment Team Leader perform turnover of Dose Assessment and Field Survey Activities using ERP-300, Appendix 3.

NOTE

1. AFTER TURNOVER TO EOF DATL, ALL DOSE ASSESSMENT COMMUNICATION SHOULD BE DIRECTED TO EOF DOSE ASSESSMENT LEAD.

2. AFTER TURNOVER TO EOF, ALL DOSE ASSESSMENT INFORMATION SHOULD BE DISSEMINATED FROM EOF (REF 6.5.1).

3.1.2 Upon activation of the EOF Dose Assessment Team the DAC shall support EOF activities by:

3.1.2.1 Maintaining awareness of Plant Condition.

3.1.2.2 Assist EOF Dose Assessment in performance of duties.

3.1.2.3 **IF** EOF Emergency Response Facility Data System fails
THEN provide Met and Radiological Data to the EOF Dose Assessment Team.

3.1.3 Update Emergency Director, of significant changes in radiation or meteorological parameters.

3.1.4 Maintain Status Board.

4.0 FINAL CONDITIONS

4.1 The ED has determined that the TSC Dose Assessment functions are no longer required.

4.2 Records generated are compiled for review and submitted to NRMS.

5.0 APPENDICES

5.1 ERP-300, Appendix 1, Dose Assessment Team Activation

5.2 ERP-300, Appendix 2, Dose Assessment Team Check-off List

5.3 ERP-300, Appendix 3, Turnover of Dose Assessment Responsibilities

5.4 ERP-300, Appendix 4, Dose Assessment Data Sheet

5.5 ERP-300, Appendix 5, Use of Mesorem, Jr. Auto Mode A

5.6 ERP-300, Appendix 6, Obtaining Radiological Data

5.7 ERP-300, Appendix 7, Obtaining Met Data from PMS

5.8 ERP-300, Appendix 8, Obtaining Met Data from National Weather Service

5.9 ERP-300, Appendix 9, Protective Action Worksheet

5.10 ERP-300, Appendix 10 Use of North Stack Dose Rate to Estimate Release Source Term

5.11 ERP-300, Appendix 11, Operation of IBM PS/2 Model L40SX

5.12 ERP-300, Appendix 12, Limerick Liquid Release Dose Calculations

5.13 ERP-300, Appendix 13, Dose Assessment Self Check

5.14 ERP-300, Appendix 14, Stability Class Determination

6.0 SUPPORTING INFORMATION

6.1 Purpose

6.1.1 To provide guidelines for activation of Dose Assessment Team and transfer of Dose Assessment functions.

6.2 Criteria for Use

6.2.1 This procedure shall be implemented to perform off-site dose calculations.

6.2.2 Utilizing Appendix ERP-300-13 this procedure may be used for rapid determination, during a declared emergency, of whole body and organ doses due to liquid releases.

6.3 Special Equipment

6.3.1 Mesorem, Jr.

6.3.2 RM-11

6.4 References

6.4.1 Impell Mesorem Jr Users Manual

6.4.2 Impell Mesorem Jr Technical Manual

6.4.3 ERP-360 - Adjust of Wide Range Gas Monitor Conversion Factor

6.4.4 ERP-340 - Field Survey Group

6.4.5 Reg. Guide 1.109

6.4.6 EPA400-R-92-001 Oct. 1991, Manual of Protective Action Guides and Protective Actions for Nuclear Incidents

6.4.7 Action Item Q0003303 (Section 3.1.1 NOTE)

6.4.8 OEAP A0370948-AE02 (Entire Procedure)

6.4.9 PEP Issue I0001344 (ERP-300, Appendix 5)

6.4.10 PEP Issue I0002326 (ERP-300, Appendix 5, Step 6)

6.4.11 PEP Issue I0002326 (Eval 27) (ERP-300, Appendix 12)

6.4.12 EP Action Item Q0004727 (ERP-300, Appendix 13)

6.4.13 EP Action item Q0005406 (ERP-300, Appendix 2 Step 2.2.8)

6.5 Commitment Annotation

None

Effective Date: 3/31/00

DOSE ASSESSMENT TEAM ACTIVATION

1.0 **IF** contacted by pager,
THEN respond to code as follows:

1.1 Call autodialer at **1-800-MAGENTA (1-800-624-3682)**

NOTE
PAGER CODES ARE AS FOLLOWS: 6611 - CALL IN PAGER TEST 6622 - CALL IN AND RESPOND DRILL 6633 - CALL IN EMERGENCY

1.2 **IF** autodialer is busy,
THEN callback autodialer after a short wait.

1.3 **IF** autodialer does not provide prompts,
THEN call LGS ASPEN,
AND enter "4#",
AND follow prompts.

2.0 **IF** contacted by autodialer callout,
THEN follow prompts,
AND respond as required.

Effective Date: 3/31/00

DOSE ASSESSMENT TEAM CHECK-OFF LIST

		VERIFIED BY	TIME
1.	Sign-in at the facility		
2.	Ensure all equipment turned on		
3.	Complete ERP-300, Appendix 4 (Dose Assessment Data Sheet)		
4.	Ensure signs indicate proper team in control		
5.	HP Tech available to perform dose assessment in TSC		
6.	Determine Site Evacuation Area - per ERP-120, Station Evacuation (Ref. 6.4.13) (Cromby or Airport) Circle on all display maps		
7.	Notify Bureau of Radiation Protection (BRP) of plant status (Prelude green Ext 139)		
8.	Notify Emergency Director of TSC dose assessment readiness		

Effective Date: 3/31/00

TURNOVER OF DOSE ASSESSMENT RESPONSIBILITIES

Turnover of dose assessment responsibility from one Dose Assessment Team/location to another Dose Assessment Team/location should include the transmittal of any available information listed below:

1. Time of reactor trip/scram _____

2. Plant status _____

3. Release point _____

4. Start time of release _____

5. Estimated duration of release _____

6. Method(s) used to calculate doses:
   - AUTO-A ☐
   - FAST-A ☐
   - MODE-A ☐

7. DBA _____

8. Results of dose calculations, based on dose projections, Protective Action Recommendations:

   _____

   _____

9. Site Evacuation Assembly Area _____

10. Phone # where DAC can be reached Extension 2620 - Prelude 122

11. Shift Dose Assessment Person shall report to the TSC upon completion of turnover to DAC.

FIELD SURVEY TURNOVER CHECK LIST

1. Team Status

	TEAM COLOR	MEMBER NAMES	AVAILABLE EXPOSURE	INITIAL** LOCATION
TEAM 1		Tech		
		Driver		
TEAM 2		Tech		
		Driver		
TEAM 3		Tech		
		Driver		
TEAM 4		Tech		
		Driver		
** Initial location is 2 miles downwind on either edge of plume width.				

2. Dose Ratio _____

3. Request HP technicians from Health Physics Team Leader.

4. Direct Field Survey Personnel to:

   a. Obtain Kastle key for the Site Management Building and key for the Field Survey Equipment Room (From HP Field Office).

   b. Meet the I&C driver at the Northwest corner of the Site Management Building.

5. Inform Security Team Leader that Field Survey Members will be exiting and retaining their dosimetry **AND** direct they not be detained leaving site.

6. Select proper map overlay isopleth **AND** hang on maps.

7. Perform radio communications test with each team.

8. **IF** EP channel activity is busy with communications other than Field Survey **THEN** request EP coordinator to contact Load Dispatcher Supervisor at 801-5141 to free up Emergency Planning radio channel.

9. Direct each team to initial location. (2 miles downwind on either edge of plume width)

_____ _____

COMPLETED BY TIME/DATE

Effective Date: 3/31/00

DOSE ASSESSMENT DATA SHEET

Name: _____ Time _____

1. Current Emergency Classification _____

2. Determine Design Basis Accident from Operations/Technical Support Team (Reference 6.4.11)

   ☐ a. Major Fuel Damage (LOCA) (D/W Rad Monitor ≥100 R/hr)
   ☐ b. Minor Fuel Damage (No Iodine) (D/W Rad Monitor <100 R/hr)
   ☐ c. Demin Backwash

3. Basis for Dose Projection

   ☐ a. ST-6-104-880 (Threshold exceeded), use 15 min avg. data
   ☐ b. ERP-101, use 60 min avg. data
   ☐ c. Direction from ED based on current plant conditions, use 15 or 60 min.

4. Obtain time of initial release/Stack HiHi Alarm(Fast Mode) _____

   a. +14 min (auto mode) _____
   OR
   b. +59 min (auto mode) _____

5. Obtain Release Duration from Operations/Technical Support Team(If release is still in progress, obtain estimated release duration from OPS)

   _____

6. Obtain Release point from Operations/Technical Support Team

CIRCLE ONE ▸	UNMONITORED	NS	SS1	SS2

7. Obtain time of Reactor Shutdown from Operations/Technical Support Team_____

FOR NORTH STACK RELEASE ONLY:

8. Is the release processed through SBGT? Y/N

9. Is release process through RERS? Y/N

FOR NORTH OR SOUTH STACK RELEASE:

10. Is release from Drywell Atmosphere/Supp Pool Atmosphere or other _____

11. If (10) is D/W, are D/W Sprays ON/OFF? _____

12. If (10) is Supp Pool, is Supp Pool Atmosphere Saturated/Subcooled? _____

13. When dose projection is completed perform self check per ERP-300, Appendix 13.

_____

USE OF MESOREM, JR. AUTO MODE A

1. Logon to Mesorem Jr. using proper password and user I.D.

	CONTROL ROOM	TSC
PASSWORD:	**MCR**	**TSC**
USER I.D.:	**111111**	**222222**

2. At Drill Menu Press F1 (Not a Drill)

3. When prompted to verify this is not a drill, enter "Y"

4. Read PQ help screen
AND Press any key to continue.

   a. In TSC select F2, execute Dispersion Model
   b. In MCR select:

      1) F3 for Auto Mode A

NOTE

(AUTO DATA COLLECTION CANNOT HAPPEN FOR A RELEASE THAT HAS NOT YET OCCURRED).

      2) F1 for Fast Mode A (Use Appendices #6-7-8 as necessary)

NOTE

IF USING FAST MODE A, MESOREM JR WILL IDENTIFY THE SENSORS TO BE USED FROM THE PMS PRINTOUT

5. Choose Design Basis Accident from Accident Menu

RELEASE RATE	DOSE ASSESSMENT ACTIVITIES
> Threshold (Listed in ST-6-104-880 AND Hi-Hi Alarm < 60 minutes	Perform 15 min D/A projections using highest 15 min trend
Hi-Hi Alarm > 60 minutes AND < Threshold (Listed in ST-6-104-880	Perform 60 min D/A projections and continue to monitor RM-11 until alarm clears
Hi-Hi Alarm > 60 minutes AND > Threshold (Listed in ST-6-104-880	Perform 15 min D/A projection using highest 15 min trend, to verify an Alert, if no Alert, THEN perform 60 min D/A projection to determine Unusual Event

6. Answer the prompts as they appear.

OBTAINING RADIOLOGICAL DATA

1. Determine Radiological Data to complete Data Sheet below:

   A. Complete steps 2 thru 14 to obtain data from RM-11

   OR

   B. Use other available sources

2. Select Grid 1.

3. Select the release point of interest.
   Example: North Stack Channel RE26076-4.

NOTE

Pressing the "Esc" button on the keyboard will return the user to the Main Menu from any other screen.

4. Select the "MONITOR DETAIL" button.

5. Record the current Process Flow value in the table on ERP-300, Appendix 6 page 3 for the selected release point.

6. Select the "PREV" button.

7. Select either the "15 MIN AVG" value
   OR the "60 MIN AVG" value.

8. Verify the selected value is surrounded by a box.

9. Record which "AVG" value was chosen in the table on ERP-300, Appendix 6 page 3 for the selected release point.

10. Press the "**right**" mouse button.

11. Select "Time Trend" from the pull down menu.

NOTE

There are two values in the bottom right hand corner of the Channel Detail Screen. For Step **11**, the value **furthest right** is the value where the cursor is placed. The value adjacent is the most recent 15 minute

OR 60 minute average.

12. Place the cursor near the line that has the **highest** value.

CAUTION

THE CHANNEL NUMBERS USED IN THE RM-11 COMPUTERS ARE NOT THE SAME AS THE CHANNEL NUMBERS USED IN MESOREM JR. THE CHANNEL NUMBER CROSS REFERENCE IS LISTED BELOW.

Description	RM-11 Channel	Mesorem Jr. Channel
North Stack Total Effluent	RE26076-4	4TE076
Unit 1 South Stack "A" Noble Gas	RE26185A-3	3GE185
Unit 1 South Stack "B Noble Gas	RE26185B-3	6GE185
Unit 2 South Stack "A" Noble Gas	RE26285A-3	3GE285
Unit 2 South Stack "A" Noble Gas	RE26285B-3	6GE285

13. Record the selected value for the release point in the appropriate table below:

14. Select the "GRID 1" button in the top right hand corner to return to the Grid 1 Display.

NOTE

N/A should be entered in the tables below for release points that were **not** selected.

NORTH STACK		
RE26076-4 Value (RM-11) 4TE076 (Mesorem Jr.) (µCi/sec)	Selected Value (15 **or** 60 MIN AVG)	Process Flow Value (scfm)

U/1 SOUTH STACK		
RE26185A-3 Value (RM-11) 3GE185 (Mesorem Jr.) (µCi/ml)	Selected Value (15 **or** 60 MIN AVG)	Process Flow Value (scfm)

U/1 SOUTH STACK		
RE26185B-3 Value (RM-11) 6GE185 (Mesorem Jr.) (µCi/ml)	Selected Value (15 **or** 60 MIN AVG)	Process Flow Value (scfm)

U/2 SOUTH STACK		
RE26285A-3 Value (RM-11) 3GE285 (Mesorem Jr.) (µCi/ml)	Selected Value (15 **or** 60 MIN AVG)	Process Flow Value (scfm)

U/2 SOUTH STACK		
RE26285B-3 Value (RM-11) 6GE285 (Mesorem Jr.) (µCi/ml)	Selected Value (15 **or** 60 MIN AVG)	Process Flow Value (scfm)

OBTAINING MET DATA FROM PLANT MONITORING SYSTEM (PMS)

IF IN THE CONTROL ROOM:

A. Perform The following at a unit 1 Plant Monitoring System (PMS) workstation

1. **Select** menu at bottom of CRT screen to bring up the Limerick Unit 1 main menu.
2. **Select** monitor box on left hand side of the screen to bring up monitor display menu.
3. **Select** either 15 minute Average or hourly Average meteorological data.
4. **Press** F20 to print.

IF IN THE TSC

A. Perform The following at the VT terminal

1. **Turn on** the VT terminal.
2. At the "Local" prompt **type** "C(space) LG1pa" or LG1pb.
3. **Enter** Username "HP1"
4. **Enter** Password "TSC"
3. **Select** either:
   a) 15 minute Average Met Data or,
   b) hourly Average Met data.
   c) Logoff
4. **Press** F2 to print.

- Remove copy and attach with Dose Projection.

Effective Date: 3/31/00

OBTAINING METEOROLOGICAL DATA FROM NATIONAL WEATHER SERVICE

1. Contact Philadelphia National Weather Service at 1-609-261-6604

2. Request Wind Speed _____ knots

3. Request Wind Direction _____°(From)

4. Request Cloud Cover in tenths _____

5. Request Cloud Ceiling in feet _____

6. Request Ambient Temp _____°F

7. Request Precipitation Rate in inches per hour _____in/hr

Effective Date: 3/31/00

PROTECTIVE ACTION WORKSHEET

S E C T I O N I

TO BE COMPLETED BY DOSE ASSESSMENT TEAM:

DATE: _____ TIME: _____ WINDSPEED: _____mph DIRECTION (FROM): _____ O

DOSE ASSESSMENT RECOMMENDATIONS:

BAND 0-2 Miles _____ 2-5 Miles _____ 5-10 Miles_____ > 10 Miles _____

AFFECTED SECTORS AND SECTOR ON EITHER SIDE OF AFFECTED SECTORS FROM MESOREM PRINTOUT

_____

Ingestion Pathway Recommendations _____ Dose Ratio (Mesorem Jr.) _____

S E C T I O N II

TO BE COMPLETED BY EMERGENCY DIRECTOR:

PLANT STATUS RECOMMENDATIONS: (ERP-101)

0-2 Miles_____ 2-5 Miles_____ 5-10 Miles _____

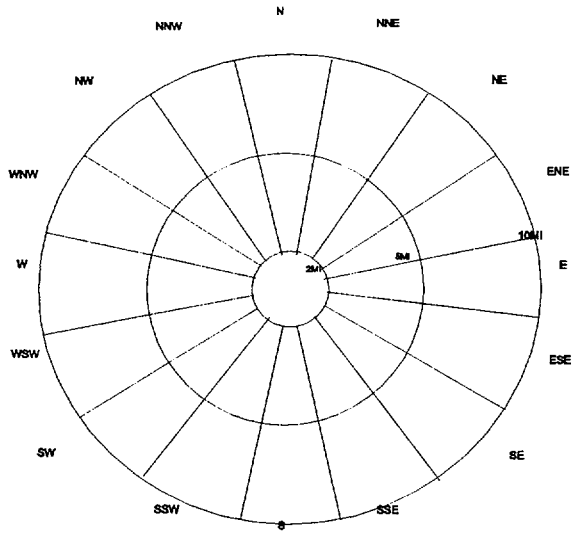
S E C T I O N III

TO BE COMPLETED BY EMERGENCY DIRECTOR: ACTIONS RECOMMENDED TO STATE:

DOSE	PROTECTIVE ACTIONS	SECTORS
0-2 Miles		
2-5 Miles		
5-10 Miles		
>10 Miles		

Ingestion Pathway Recommendations _____ Dose Ratio (Mesorem Jr.) _____

NOTES:
1. IF TOTAL PROJECTED TPARD IS LESS THAN 5 REM AND TOTAL PROJECTED CDE IS LESS THAN 25 REM SHELTER PAR MAY BE SUBSTITUTED FOR EVACUATE PAR FOR UNIQUE CIRCUMSTANCES (WEATHER/ROAD COND/ETC.)
2. INCLUDE AFFECTED SECTORS FROM PREVIOUS PAR IN ANY REVISED PAR.



MARK AFFECTED AREAS:

S - SHELTER
E - EVACUATE

COMPLETED BY/TIME _____ / _____

USE OF NORTH STACK DOSE RATE TO ESTIMATE RELEASE SOURCE TERM

1. **IF** North Stack Instrument Room dose rates exceed 5000 mr/hr per ARM# RE60-M1-0N0001 or alternate sampling of North Stack via ST-5-026-580-0 cannot be performed.
THEN continue with this appendix.

WARNING

NORMAL ROUTE TO THE NORTH STACK GOES BY THE STANDBY GAS TREATMENT SYSTEM AND ALONG THE NORTH STACK DUCTWORK. DOSE SAVINGS MAY BE OBTAINED BY USING THE FUEL FLOOR ACCESS TO THE SOUTH STACK LADDERS. CONSULT WITH HEALTH PHYSICS TEAM LEADER TO DETERMINE THE DESIRED ROUTE TO THE NORTH STACK.

2. Health Physics Group Members shall obtain North Stack Duct dose rate by standing on step #108 (painted neon orange, about 12 steps from Reactor Building roof elev. - 395') and holding the E530 with HP-220A probe on top inside rail of stairway facing duct.

3. Health Physics Group Members shall report dose rate **AND** time of reading to Health Physics Group Leader.

4. Health Physics Group Leader shall report dose rate to Dose Assessment Technician, or the Dose Assessment Coordinator as appropriate.

5. Convert dose rate to release rate as follows:

   A. At Auto Data Collect Screen, depress ESC key.

   B. At Command Menu, depress

CONTROL ROOM	TSC
1) F2	1) F6
2) F3	2) F3

   C. Follow the prompts using North Stack Dose Rate obtained from Health Physics Survey.

   D. Answer "Y" to the question "would you like an automatic dump to the printer".

   E. Using the printout obtained from "D" above, perform dose run.

Effective Date: 3/31/00

OPERATION OF IBM PS/2 MODEL L40SX

I. For A.C. Power Operation

A) Move computer power switch to the "O" position (off).

B) Ensure video output cable is inserted in video output port of the lap top.

C) Ensure AC adapter cable is inserted in the AC adapter port and the AC adapter is plugged in to 120 volts.

D) Turn on power switches for computer, printer and color monitor.

II. For Battery Operation

1. A.C. Power Fail Operation

A) Turn computer switch to "O" position (Off).

B) Disconnect video output cable.

C) Turn computer power switch to the "|" position (On).

D) Computer will operate with LCD.

E) Printer will NOT operate.

2. Replacing Battery

A) When low battery warning signal sounds and battery status ICON begins to flash, replace battery as follows:

1. Close display, wait 10 seconds or until computer beeps.

2. Open rear center compartment cover marked "Battery Inside".

3. Remove battery by pulling blue ribbon while lifting blue tab located in upper left corner of compartment.

4. Insert fully charged battery.

5. Close center compartment cover.

6. Open display and continue.

Effective Date: 3/31/00

LIMERICK LIQUID RELEASE DOSE CALCULATIONS
(Reference 6.4.12)

NOTE

THIS APPENDIX IS USED DURING A DECLARED EMERGENCY FOR A RAPID DETERMINATION OF WHOLE BODY AND ORGAN DOSE RESULTING FROM A LIQUID RELEASE.

1) Obtain the following from The Chemistry Team Leader:

   a. Grab sample results on the concentration of Zn-65, Co-60, I-131, Cs-134, and Cs-137 released.

   b. Sample location (before or after cooling tower blowdown)

2) After logging on to Mesorem Jr. choose liquid dose calculations at the MODE "A" Options Menu.

3) Answer the following Prompts:

A	**Was the Sample taken BEFORE or AFTER the Cooling Tower Blowdown Line?** **B = Before, A = After B/A → A**
B	**What is the Expected Release Duration? (decimal hours)**
C	**Enter the Sample Concentration of Zn-65 (uCi/ml)**
D	**Enter the Sample Concentration of Co-60 (Uci/ml)**
E	**Enter the Sample Concentration of I-131 (uCi/ml)**
F	**Enter the Sample Concentration of Cs-134 (uCi/ml)**
G	**Enter the Sample Concentration of Cs-137 (uCi/ml)**
H	**Do You Want to Send Output to Printer? Y/N**
I	**Do You Want to Calculate Another Sample? Y/N**

4) Report Results to the Emergency Director.

Effective Date: 3/31/00

DOSE ASSESSMENT SELF-CHECK

1. Review the MESOREM Jr. print-out.

2. Make a visual comparison of the data from ERP-300, Appendix 4 to that on the print-out.

3. Compare the Radiological data on the printout to that on the RM-11. If they differ by a factor of 10 or higher then verify Radiation monitor status with Shift Supervision or System Manager.

4. **IF** any data was manually edited,
THEN visually compare the data on page 3 of the print out with the Plant Monitoring System print out or the associated appendixes used to obtain the data.

5. **IF** Fast Mode A was used,
THEN verify values on ERP-300, Appendix 6 are the highest 15 minute trend values during the release.

6. Circle the **MAX TPARD** value on the summary page in order to facilitate your focused dialogue with the Shift Manager.

7. Have another Dose Assessment qualified technician or the Dose Assessment Coordinator(DAC) review the print out and appendixes when available.

> **NOTE**
>
> THE PAR SECTORS INDICATED ON PAGE 2 AND PAGE 4 OF THE MESOREM JR. PRINTOUT INCLUDE THE AFFECTED SECTORS AND THE ADJACENT SECTORS

8. In the event of a General Emergency declaration, obtain the protective action recommendation and the PAR sectors involved from Page 2 of the Mesorem Jr. printout.

Effective Date: 3/31/00

STABILITY CLASS DETERMINATION

PRIMARY TOWER

DELTA T	STABILITY CLASS
≤ -2.6	A
-2.5 TO -2.3	B
-2.2 TO -2.0	C
-1.9 TO -0.7	D
-0.6 TO +1.9	E
2.0 TO 5.2	F
≥ 5.3	G

SECONDARY TOWER

DELTA T	STABILITY CLASS
≤ -2.9	A
-2.8 TO -2.6	B
-2.5 TO -2.3	C
-2.2 TO -0.8	D
-0.7 TO +2.2	E
+2.3 TO +6.0	F
≥ +6.1	G

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	0005	EMERGENCY OPERATIONS FACILITY (EOF) ACTIVATION/DEACTIVATION	04/21/99		
LG	PROC	ERP	ERP-C-1000-1	0002	EOF ACTIVATION CHECKLIST	04/21/99		
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 INCORPORATED INTO ERP-C-1250	04/21/99 09/14/94		
LG	PROC	ERP	ERP-C-1200	0009	EMERGENCY REPSONSE MANAGER			
LG	PROC	ERP	ERP-C-1200-1	0000	EMERGENCY RESPONSE MANAGER TURNOVER/BRIEFING FORM	04/03/00	LWE	
LG	PROC	ERP	ERP-C-1200-2	0000	PROTECTIVE ACTION RECOMMENDATION WORKSHEET CANCELLED	09/14/94 10/24/95		
LG	PROC	ERP	ERP-C-1200-3	0000	ERM PAR DELIVERY CHECKLIST			
LG	PROC	ERP	ERP-C-1210	0002	ASSISTANT EMERGENCY RESPONSE MANAGER (AERM) CANCELLED	04/03/00 10/24/95		
LG	PROC	ERP	ERP-C-1250	0003	EMERGENCY PREPAREDNESS COORDINATOR/EOF			
LG	PROC	ERP	ERP-C-1250-1	0000	EMERGENCY POWER INSTRUCTIONS	11/02/98		
LG	PROC	ERP	ERP-C-1250-2	0001	EMERGENCY PREPAREDNESS COORDINATOR INSTRUCTIONS FOR ASPEN BACKUP NOTIFICATION SYSTEM	09/14/94 04/02/98		
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	ENERGENCY PREPAREDNESS COORDINATOR INSTRUCTIONS FOR SYSTEM RESET	09/14/94		
LG	PROC	ERP	ERP-C-1300	0009	EMERGENCY OPERATIONS FACILITY (EOF) DOSE ASSESSMENT TEAM LEADER	04/03/00		
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	0003	PROTECTIVE ACTION RECOMMENDATION WORKSHEET	11/02/98		
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	0001	DOSE ASSESSMENT GROUP INITIAL ACTIONS			
LG	PROC	ERP	ERP-C-1300-7	0000	OBTAINING EPDS MET/RAD DATA	04/10/98		
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	03/26/97		
LG	PROC	ERP	ERP-C-1310	0003	EMERGENCY OPERATIONS FACILITY (EOF) DOSE ASSESSMENT GROUP CANCELLED	09/12/97 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	0005	EMERGENCY OPERATIONS FACILITY (EOF) FIELD SURVEY GROUP LEADER	04/10/98		
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	0000	FIELD SURVEY GROUP LEADER DATA SHEET	09/23/94		
LG	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		
LG	PROC	ERP	ERP-C-1410	0002	CORE DAMAGE ASSESSMENT	09/09/98		

FAC	DOC TYPE	PROC TYPE	PROCEDURE NUMBER	CURR REV NBR	TITLE	EFFECTIVE DATE	RESP GROUP	SYSTEM NBR
LG	PROC	ERP	ERP-C-1410-1	0000	RADIOLOGICAL DATA			
LG	PROC	ERP	ERP-C-1410-2	0001	HYDROGEN CONCENTRATION DATA	09/14/94		
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	09/09/98		
LG	PROC	ERP	ERP-C-1410-5	0001	PERCENT OF FUEL INVENTORY AIRBORNE IN THE CONTAINMENT VS. APPROXIMATE SOURCE AND DAMAGE ESTIMATE	09/09/98		
LG	PROC	ERP	ERP-C-1410-6	0001	PROCEDURES FOR ESTIMATING FUEL DAMAGE BASED ON MEASURED I-131 AND XE-133 CONCENTRATIONS	09/09/98		
LG	PROC	ERP	ERP-C-1500	0005	LOGISTIC SUPPORT TEAM			
LG	PROC	ERP	ERP-C-1500-1	0001	MESSAGE AND INFORMATION INSTRUCTIONS	04/02/98		
LG	PROC	ERP	ERP-C-1500-2	0001	HELICOPTER LANDING INFORMATION	10/24/95		
LG	PROC	ERP	ERP-C-1900	0004	RECOVERY PHASE IMPLEMENTATION	10/24/95		
LG	PROC	ERP	ERP-C-1900-1	0000	RECOVERY PHASE IMPLEMENTATION FLOW CHART	11/02/98		
LG	PROC	ERP	ERP-C-1900-2	0002	PEACH BOTTOM ATOMIC POWER STATION RECOVERY ACCEPTANCE CHECKLIST	06/28/93		
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	04/02/98		
LG	PROC	ERP	ERP-101	0011	CLASSIFICATION OF EMERGENCIES	12/28/99		
LG	PROC	ERP	ERP-101 BASES	0000	LGS EAL TECHNICAL BASIS MANUAL	09/14/99	LWE	
LG	PROC	ERP	ERP-106	0003	WRITTEN SUMMARY NOTIFICATION	09/16/99		
LG	PROC	ERP	ERP-110	0030	EMERGENCY NOTIFICATION	11/22/95	LWE	
LG	PROC	ERP	ERP-120	0006	STATION EVACUATIONS	11/04/99	LWE	
LG	PROC	ERP	ERP-140	0009	STAFFING AUGMENTATION	11/14/97	LWE	
LG	PROC	ERP	ERP-200	0012	EMERGENCY DIRECTOR (ED) RESPONSE	02/03/98	LWE	
LG	PROC	ERP	ERP-200-1 APP	0010	EMERGENCY NOTIFICATION MESSAGE FORM	10/05/98	LWE	
LG	PROC	ERP	ERP-230	0014	OPERATIONS SUPPORT CENTER (OSC) DIRECTOR	10/05/98	LWE	
LG	PROC	ERP	ERP-230 APPENDIX 1	0000	OSC - EMERGENCY COMMUNICATIONS EQUIPMENT CHECK LIST	04/14/00	LWE	
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	04/14/00		
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	0000	TURNOVER OF DOSE ASSESSMENT RESPONSIBILITIES	04/03/00		
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 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 METEROLOGICAL DATA FROM NATIONAL WEATHER SERVICE	04/03/00		
LG	PROC	ERP	ERP-300 APPENDIX 9	0000	PROTECTIVE ACTION WORKSHEET	04/03/00		
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	STABILTIY CLASS DETERMINATION	04/03/00		
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	PROC	ERP	ERP-340	0007	FIELD SURVEY GROUP	03/01/00	LWE	
LG	PROC	ERP	ERP-350	0003	RADIOACTIVE LIQUID RELEASE	11/10/94	LWE	

PROCEDURE INDEX REPORT:

FAC	DOC TYPE	PROC TYPE	PROCEDURE NUMBER	CURR REV NBR	TITLE	EFFECTIVE DATE	RESP GROUP	SYSTEM NBR
LG	PROC	ERP	ERP-350	0003	CANCELLED			
LG	PROC	ERP	ERP-360	0003	ADJUSTMENT OF WIDE RANGE GAS MONITOR CONVERSION FACTORS	11/10/94	LWE	
LG	PROC	ERP	ERP-370	0001	USE OF RMMS FOR DOSE ASSESSMENT	10/18/99	LWE	
					CANCELLED	11/10/94	LWE	
LG	PROC	ERP	ERP-400	0012	CHEMISTRY SAMPLING AND ANALYSIS TEAM			
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	09/28/98	LWE	
LG	PROC	ERP	ERP-500	0016	SECURITY TEAM	03/29/95	LWE	
LG	PROC	ERP	ERP-500 APPENDIX 1	0000	SECURITY TEAM ACTIVATION	04/14/00	LWE	
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	04/14/00		
LG	PROC	ERP	ERP-620	0002	PLANT SURVEY GROUP	05/19/98	LWE	
					CANCELLED - NO REPLACEMENT	05/02/95	LWE	
LG	PROC	ERP	ERP-630	0003	VEHICLE AND EVACUEE CONTROL GROUP			
LG	PROC	ERP	ERP-640	0008	EMERGENCY RESPONSE FACILITY HABITABILITY	03/29/95	LWE	
LG	PROC	ERP	ERP-650	0009	ENTRY FOR EMERGENCY REPAIR AND OPERATIONS	04/17/99	LWE	
LG	PROC	ERP	ERP-660	0006	DISTRIBUTION OF THYROID BLOCKING TABLETS	04/17/99	LWE	
LG	PROC	ERP	ERP-700	0014	TECHNICAL SUPPORT TEAM	04/17/99	LWE	
LG	PROC	ERP	ERP-800	0018	MAINTENANCE TEAM	10/05/98	LWE	
						09/14/99	LWE	

** END OF REPORT **