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Nuclear

10CFR50, Appendix E

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U. S. Nuclear Regulatory Commission

ATTN: Document Control Desk Washington, DC 20555-0001

Subject:

Limerick Generating Station, Units 1 & 2

Facility Operating License Nos. NPF-39 and NPF-85

NRC Docket Nos. 50-352 and 50-353

EP-LG-112-500, Revision 0, "Emergency Environmental Monitoring"

Enclosed is a revised Emergency Plan Procedure for Limerick Generating Station (LGS), 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.

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

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

Very truly yours,

M. P. Gallagher

Director - Licensing & Regulatory Affairs

Exelon Generation Company, LLC

Enclosures

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ENCLOSURE 1

LIMERICK GENERATING STATION, UNITS 1 & 2

Docket Nos. 50-352 50-353

License Nos. NPF-39 NPF-85

EMERGENCY RESPONSE PROCEDURE

EP-LG-112-500, "Emergency Environmental Monitoring," Revision 0



EP-LG-112-500 Revision 0 Page 1 of 29 Level 2 - Reference Use

EMERGENCY ENVIRONMENTAL MONITORING

1. PURPOSE

1.1 This procedure describes the responsibilities and actions for the coordination of Exelon Nuclear Field Monitoring Teams, including the tracking of a radiological release plume and the collection of environmental samples.

Field Monitoring Teams are mobilized and initially dispatched by the Radiation Controls Coordinator in the Technical Support Center (TSC). Coordination of Field Monitoring Team activities are transferred to the Environmental Coordinator upon activation of the Emergency Operations Facility (EOF).

2. TERMS AND DEFINITIONS

None

3. **RESPONSIBILITIES**

3.1 Field Monitoring Teams are responsible for performing field surveys outside the Station Protected Area, including tracking of the radiological release plume and obtaining environmental samples, as trained.

4. MAIN BODY

4.1 **INITIATE** the appropriate Emergency Plan activities using the Field Monitoring Team Checklist listed in Attachment 1, when designated as a Field Monitoring Team member.

5. **DOCUMENTATION**

None

6. REFERENCES

None

7. ATTACHMENTS

- 7.1 Attachment 1, Field Monitoring Team Checklist
- 7.2 Attachment 2, Protective Equipment and Personnel Dosimetry
- 7.3 Attachment 3, Field Monitoring Team Data Sheet
- 7.4 Attachment 4, Environmental Assessment Log
- 7.5 Attachment 5, Environmental Sample Collection Procedures
- 7.6 Attachment 6, Environs Group Transfer or Shipment of Environmental Radiological Samples to Radiological Laboratories
- 7.7 Attachment 7, Mobilization and Direction of the Environmental Sampling Vendor
- 7.8 Attachment 8, Satellite Telephone Operation (Mid-West ROG Only)
- 7.9 Attachment 9, Field Monitoring Team Radio Operating Guidelines (TMI Only)

ATTACHMENT 1 FIELD MONITORING TEAM CHECKLIST Page 1 of 9

Mid-Atlantic ROG

Collection of environmental samples, other than plume survey and airborne samples is performed by an Environmental Sampling Vendor (ESV).

Section 1, Initial Actions

Section 2, On-Going Activities

NOTE: Steps in this checklist may be performed in an order other than listed or they may be omitted if not applicable.

1. INITIAL ACTIONS

		T to the OSC after facility activation is directed, and PERFORM the if designated as a Field Monitoring Team members:
1.1		OBTAIN a vehicle and keys for equipment storage areas, as applicable.
1.2		PERFORM the actions outlined in Table 1-1, "Initial Field Monitoring Team Checklist".
1.3		REPORT to the TSC or CONTACT the Radiological Controls Coordinator (RCC) from a pre-designated location (i.e., OSC, vehicles, equipment area, etc.) for an initial briefing using Table 1-2 (Field Monitoring Team Dispatch Log).
1.4		DON appropriate protective clothing and dosimetry, as directed by the RCC per Attachment 2 (Field Monitoring Team Protective Equipment and Personnel Dosimetry).

1. If respiratory protection is recommended, but is not part of equipment inventory, then OBTAIN from RP.

The following ALARA considerations apply:

- Field Monitoring Teams should take and report dose rates upon arrival to the monitoring location. If habitable, sampling should proceed as instructed.
- Field Monitoring Teams should request further instructions when radiation levels approach 100 mR/hr.

1.5	PROCEED to designated staging area or off-site location and
	CONTACT the RCC upon arrival.

ATTACHMENT 1 FIELD MONITORING TEAM CHECKLIST Page 2 of 9

2. ON-GOING ACTIONS

NOTE: Actions are not required to be performed in the order listed.

CAUTIONS

When traversing a potential release path, vehicle windows and ventilation paths (i.e., air conditioning, vent fan) shall be closed or secured except when performing measurements or taking air samples. Consider hazards in terrain when choosing location to stop vehicle.

Use roof top strobe light or vehicle flashers whenever you are stopped along roadside or traveling significantly slower than the speed limit.

2.1 USE "3-Way" communications principles and phonetic alphabet (Table 1-3) for all communications to and from controlling facility and Field Monitoring Team.

Mid-West ROG only

REFER to communications equipment instructions provided in Attachment 8.

2.2 **PERFORM** radiation surveys while in transit to specified survey location or deployment point.

CAUTION

(Unless instructed otherwise) If radiation levels approach 100 mR/hr, then STOP and RETURN to a lower dose area. NOTIFY the controlling facility (TSC/EOF) immediately for further instructions.

- OBSERVE instruments for changes above background levels, and NOTIFY the RCC (TSC) / Field Team Communicator (EOF) of any noticeable increases in levels (> 1 mR/hr).
- 2. **NOTIFY** the RCC (TSC) / Field Team Communicator (EOF) upon arrival at specified survey location or deployment point.

ATTACHMENT 1 FIELD MONITORING TEAM CHECKLIST

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- 2.3 When directed to traverse plume, **PERFORM** the following:
 - 1. If required to obtain an air sample, then PREPARE for sample in advance.
 - A. CHECK portable air sampler for particulate filter and silver zeolite cartridge, and INSTALL <u>if necessary</u> (checking the direction of air flow, marking the "hot-side" of the filter, and ensuring gaskets are in place).
 - B. DON protective clothing, as directed
 - REFER to EP-AA-113, Attachment 3 (Emergency Radiation Exposure Limits and Associated Risks)
 - REVIEW the KI Package Insert in EP-AA-113, Attachment 6 if the use of potassium iodide (KI) is authorized.
 - 2. TRAVERSE the expected release plume recording the following information on Attachment 3 (Field Survey Data Sheet):

NOTE: A good indication of being in the plume is when the measured window open reading is significantly greater than the window closed reading.

- Team No. (Color)
- Date / Time
- Initial plume boundary dose rate and location
- Plume centerline (highest reading) dose rate and location
- Exiting plume boundary dose rate and location
- If directed, OBTAIN an air sample and required surveys at the plume centerline in accordance with Radiation Protection (RP) guidelines.
 RECORD information on an Environmental Assessment Log (Attachment 4)
 - A. **OBTAIN** radiation readings at approximately 6 inches and 3 feet from the ground in both the window open and window closed positions
 - B. PLACE air sampler at location, positioned with inlet facing towards the station and approximately 3 feet above the ground

ATTACHMENT 1 FIELD MONITORING TEAM CHECKLIST Page 4 of 9

NOTE: If obtaining an air sample in a high dose area, a air sampler run time may be reduced with authorization from the controlling facility.

C. SET sampler flow at 3 cfm and RUN for approximately 10 minutes to obtain at least a 30 ft³ volume air sample.

Limerick only

SET up air sampler and ensure proper volume is obtained.

Peach Bottom only

SET air sampler flow rate based on instruction guidelines and OBTAIN a 12 ft³ volume air sample.

TMI only

Using the sampler's self-timer (or stopwatch / wristwatch), **DRAW** approximately a 300-liter air sample.

NOTE: Samplers with adjustable flow rate should be set to the highest flow rate possible, not to exceed 50 lpm (1.8 cfm).

D. **MOVE** to a low background area (less than 200 cpm or per RP guidelines).

NOTE: Personnel performing the sampling tasks should wear gloves, at a minimum, to prevent contamination.

- 4. Upon exiting plume, PERFORM the following:
 - A. RUN air sampler per RP guidelines to purge unit of noble gases.
 - B. REMOVE the air sample cartridge and SURVEY both the prefilter and iodine cartridge. RECORD information on an Environmental Assessment Log (Attachment 4).
 - C. CONTACT the controlling facility and REPORT information recorded on Attachments 3 and 4.

FIELD MONITORING TEAM CHECKLIST

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- 2.4 **REPORT** exposure history, as requested, and frequently **CHECK** dosimeter readings to ensure individual dose limits will not be exceeded.
- 2.5 **PERFORM** additional plume surveys as directed.

MWROG Only

- 2.6 COLLECT environmental samples (i.e., water, soil, vegetation, etc.) as directed per Attachment 6 (Environmental Sample Collection Procedures).
- 2.7 When directed, **RETURN** to the Station or the EOF, as directed: 2.7.1 REPORT final dosimeter readings to the controlling facility **ENSURE** that all samples are packaged and labeled appropriately. 2.7.2 **DELIVER** samples and completed data sheets to the Station 2.7.3 _____ Chemistry Lab or to designated EOF location, as applicable. SURVEY vehicle and all team members for contamination, and 2.7.4 ____ REPORT to a decontamination location designated by the EOF if contamination is present. INVENTORY equipment kit and RESTOCK, if possible. REPORT 2.7.5 ____ any deficiencies to the EOF. If being relieved, then COMPLETE Table 1-4 (Field Monitoring 2.7.6 Team Turnover Checklist) with on-coming personnel.

FIELD MONITORING TEAM CHECKLIST

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TABLE 1-1 INITIAL FIELD MONITORING TEAM CHECKLIST Page 1 of 1

		ı aş	ge i oi i	ı					
Date:	_//	Team Designat	tion _						
[](1)	OBTAIN equi	pment kits and i	nstrumer	nts.					
	· ·	equipment kit is l If an inventory.	broken, t	then Ol	BTAIN a sea	aled k	kit or		
[](2)	VERIFY operability of meters, air samplers, and battery-operated equipment.								
		g ion chamber-t					ed noble gas		
	INSTRUMENT TYPE	SERIAL NO.	CAL.	DUE	BATTERY CHECK (RESPONSE CHECK (√)		
							···		
[](3)	OBTAIN vehic	cle and keys for	Field Mo	nitoring	Team use.				
[](4)	CHECK gas to	ank level (at leas	st 1/2 full).						
[](5)	PERFORM a frequency	communications	check o	ver des	signated cha	nnel	/		
Mid-W	Vest ROG	<u>Limerick</u>		Peacl	n Bottom		<u>TMI</u>		
	o Attachment 8 AA-112-500	Channel 1 – TSC / Channel 2 – Other		EP C	Channel		ironmental & ological Freq.		
[](6)	PERFORM a	visual inspectior	of the v	ehicle.					
[](7)	DON low and	high range dosir	metry, if	provide	d in kit.				
[](8)	VERIFY that t	eam members h	ave Exe	Ion Nuc	lear identific	cation	າ.		
[](9)									
Commen	ts / Equipment	Discrepancies:							
	- •	-							

FIELD MONITORING TEAM CHECKLIST

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Table 1-2 FIELD MONITORING TEAM DISPATCH LOG Page 1 of 1

Α.	<u>Assignment</u>	<u>ot</u>	l eam_	<u>Per</u>	sonr	<u>ายเ</u> :
----	-------------------	-----------	--------	------------	------	--------------

	TEAM COLOR	MEMBER NAMES	CURRENT DOSE (QTR* / YEAR)	DOSE APPROVED TO	KI ISSUED (YES / NO)	INITIAL LOCATION
TEASS 4			1			
TEAM 1			1			_
TEAM 2			. 1			·
IEAWIZ			1		•	

^{*} Applicable to MWROG Stations

B. <u>Briefing of C</u>	Conditions
-------------------------	------------

Current Classification	: UNUSUAL EVEN	NT / ALE	RT/SITE AREA EME	RGENCY / GENE	RAL EMERGENCY
Plant Conditions:	HOT SHUTDO	WN / CO	OLD SHUTDOWN / NO	OT SHUTDOWN	
	DETERIORATI	NG/ST	ABLE / IMPROVING		•
Affected Sectors/Sub	areas:		Wind Direction	n:	Wind Speed: mph
Release Potential: NO	ONE / OCCURRIN	G/TER	MINATED		
Release Type: ELEV	ATED/GROUND		MONITORED / UNM	ONITORED	IODINE / NOBLE GAS / PART.
Projected Doses: (mF	Rem/hr)	2 Mile	<u>5 mile</u>	<u> 10 Mile</u>	Turnback Dose: mRem
	Whole Body				
	Thyroid		-	•	
Completed: (Team) _			/ (Team)	

ATTACHMENT 1 FIELD MONITORING TEAM CHECKLIST Page 8 of 9

TABLE 1-3 PHONETIC ALPHABET Page 1 of 1

Α	Alpha	Ν	November
В	Bravo	0	Oscar
С	Charlie	Р	Papa
D	Delta	Q	Quebec
Ε	Echo	R	Romeo
F	Foxtrot	S	Sierra
G	Golf	T	Tango
Н	Hotel	U	Uniform
i	Indigo	٧	Victor
J	Juliet	W	Whiskey
K	Kilo	X	X-ray
L	Lima	Y.	Yankee
М	Mike	Z	Zulu

NOTE: Alternate listing identified in approved station procedures / guidelines may also be used.

ATTACHMENT 1 FIELD MONITORING TEAM CHECKLIST

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TABLE 1-4 FIELD MONITORING TEAM TURNOVER CHECKLIST Page 1 of 1

TEA	M:	DATE / TIME:	
Α.	Meteorological Conditions:	Wind Speed	
		Wind Direction	
B.	Radiological Conditions:		
C.	Equipment Status:		·
D.	Supply Inventory Status:		
E.	Road Conditions:		
F.			-
٠.	Other:		

ATTACHMENT 2 PROTECTIVE EQUIPMENT AND PERSONNEL DOSIMETRY Page 1 of 2

The purpose of this Attachment is to provide guidance to the TSC Radiation Controls Coordinator or EOF Environmental Coordinator with respect to the wearing of protective clothing by Field Monitoring Teams and to specify the dosimetry requirements for those teams.

Respiratory protective equipment and radiological protective clothing should be inspected for proper function before use in the field and may need to be obtained from RP if not part of field team equipment inventory.

Radiological protective clothing should only be worn at the direction of the TSC Radiation Controls Coordinator or EOF Environmental Coordinator.

The MSA combination cartridge for use in both airborne radioactive iodine and particulate atmospheres has a protection factor of 100 for particulates and 1 for radioiodine. The lack of an approved protection factor for iodine should not prevent the use of these cartridges in atmospheres when both radioactive airborne particulates and iodines exist.

1. PROTECTIVE EQUIPMENT AND PERSONNEL DOSIMETRY

- 1.1 **DIRECT** each Field Monitoring Team member to obtain:
 - 1. TLD
 - 2. Self-reading dosimeters within the following ranges:

MAROG	MWROG
• 0-1500 mR range	 0-200 mR range
0-5 R range	 0-1 R range
	• 0-10 R range

OR

Electronic dosimeter capable of same coverage

NOTE: Dosimetry, other than TLDs, can be expected to <u>under-report</u> the actual dose (TEDE) received by a factor of 2 when immersed in a noble gas plume.

ATTACHMENT 2 PROTECTIVE EQUIPMENT AND PERSONNEL DOSIMETRY Page 2 of 2

1.2 **EVALUATE** the magnitude and type of any possible release in order to determine protective equipment use.

1.2.1 Respiratory Protection:

CAUTION

Respirators should be used only as a precautionary measure until air samples have been collected and analyzed, when a high dose field is encountered. The long-term use of a full-face respiratory or SCBA is **NOT** recommended due to the safety hazard involved in operating vehicle.

- 1. **EVALUATE** the use of respiratory protection as it affects the TEDE of Field Monitoring Team personnel.
- 2. **DETERMINE** whether affected personnel are respirator qualified.
- 3. **USE** a full-face respirator only when it is beneficial to TEDE AND the sufficient priority exists for sample collection.

1.2.2 Protective Clothing:

- 1. ASSESS the likelihood of particulates in the release.
- 2. **ASSIGN** a full set of protective clothing when particulates or residual contamination is expected.
- 3. **USE** EP-AA-113, Attachment 5, to assess the need for thyroid blocking agents.

ATTACHMENT 3 FIELD MONITORING TEAM DATA SHEET Page 1 of 1

Ion Chambers should be used above 2 mR/hr, and GM detectors should be NOTE: used below 2 mR/hr, as applicable based on equipment inventory. TEAM: _____ DATE / TIME: _____ **TRAVERSE #1** DOSE RATE (mR/hr) **PLUME TRAVERSE (A)** LOCATION (B) OPEN (C) CLOSED (D) (1) Initial Boundary (2) Centerline (Highest) (3) End Point (Boundary) Dosimeter Reading --TEAM: _____ DATE / TIME: _____ TRAVERSE #2 DOSE RATE (mR/hr) **PLUME TRAVERSE (A) LOCATION (B)** OPEN (C) CLOSED (D) (1) Initial Boundary (2) Centerline (Highest) (3) End Point (Boundary) Dosimeter Reading -- _____ TEAM: _____ DATE / TIME: TRAVERSE #3 DOSE RATE (mR/hr) PLUME TRAVERSE (A) LOCATION (B) OPEN (C) CLOSED (D) (1) Initial Boundary

Dosimeter Read	ling
	Numbers and letters are for assistance in communication data if desired

(2) Centerline (Highest)

(3) End Point (Boundary)

ATTACHMENT 4 ENVIRONMENTAL ASSESSMENT LOG Page 1 of 1

Event Dat	e (1)		Affected Station (2)			Team (3)		
NO. (4)	Location (5)	Time (6)	3ft WO (7)	3ft WC (8)	6in WO (9)	6in WC (10)	Instructions	
(A)								
(B)								
(C)								
(D)								
(E)								
(F)								
(G)								
(H)								
(1)								
(J)				I				

Air Samples:

Collection Location (11)	Time Sampler Started (12)	Sampler Run Time, in min (13)	Sampler Flow Rate (14)	Background Rate, in cpm (15)	Gross Prefilter Results, in cpm (16)	Gross Zeolite Results, cpm (17)
(K)			cfm / lpm			
(L)			cfm / lpm	; · ·		
(M)			cfm / lpm			

Other Samples:

Collection Location (18)	Collection Time (19)	Sample Type (20)	Counting Location (21)	Time Counted (22)	Background Rate, cpm (23)	Gross Sample Results, cpm (24)
(N)						
(0)						
(P)						

Numbers and letters are for assistance in communication data if desired

ENVIRONMENTAL SAMPLE COLLECTION (MID-WEST ROG)

Page 1 of 4

MWROG Only

The purpose of this Attachment is to describe the proper methods for collecting, handling and packaging of radiological environmental samples.

Section 1, General Sampling Guidance

Section 2, Water Sampling

Section 3, Soil Sampling

Section 4, Vegetation Sampling

Section 5, Snow Sampling

1. GENERAL SAMPLING GUIDANCE

- 1.1 In general air samples and dose rates are used when tracking the plume. The snow, water, vegetation and soil samples will be taken after the plume has stopped.
- 1.2 If milk samples are requested by offsite agencies, then COLLECT a minimum of one gallon.
- 1.3 TREAT samples with survey results of greater than or equal to 0.5 mR/h, or a count rate of 2500 cpm measured on a GM-type instrument as "radioactive material" for transportation and shipping, per 49 CFR 173.421(a)(2). Such samples require the completion of radioactive material shipping documents.
- 1.4 TAKE all samples to, or as near as possible, to the designated monitoring locations. If samples are taken at locations other than those points, report the monitoring location and record it in the 'comments' section on the Environmental Assessment Log.
- 1.5 **TAKE** samples from an undisturbed area, which is suspected to be contaminated and obtain a representative sample.
- 1.6 LABEL each container with the following:
 - team name,
 - sample type,
 - chronological sample number,
 - date, time, and monitoring location,

ENVIRONMENTAL SAMPLE COLLECTION (MID-WEST ROG)

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- for air samples; initial air sampling flow rate, final air sampling flow rate, initial running time, final running time, total cubic feet (usually 30 cubic feet),
- sample results, and
- other information pertinent to analysis.
- 1.7 RECORD data on the Environmental Assessment Log (Attachment 3), or similar log

2. WATER SAMPLING

- 2.1 Stream, River or Lake water sampling (sample size: 1 gallon)
- 2.1.1 RINSE collection container several times before collecting water if container was used previously.
- 2.1.2 **OBTAIN** a sample that is representative of the water source without disturbing the sediment.
- 2.1.3 If sampling is to be performed from a bridge, LOWER the sampling pail on a rope into the stream on the upstream side of the bridge. Permit the pail to sink beneath the surface and RETRIEVE the pail full of water.
- 2.1.4 TRANSFER the sample into the sample container and CLOSE tightly. Wipe the outside of the container and PLACE a completed label on the container. *PLACE* the labeled sample container in a clean plastic bag and seal tightly.
- 2.2 Well water samples (normal sample size: 1 gallon)
 - 2.2.1 **PURGE** the well or fountain by allowing the water to flow for at least two minutes to assure that a representative sample is collected.
 - 2.2.2 FILL the plastic sample container and CLOSE tightly. WIPE the outside of the container and PLACE a completed label on the container. PLACE the labeled sample container in a clean plastic bag and seal tightly.

ENVIRONMENTAL SAMPLE COLLECTION (MID-WEST ROG)

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3. SOIL SAMPLES

- 3.1 Soil samples should be free of vegetation and/or rocks and obtained from a small, flat area. Permanent pastures are the preferred sampling sites if available. Avoid obtaining soil samples from freshly plowed fields. (Normal sample size: quantity sufficient to fill 1 quart plastic cube container) REPORT back if soil is unsuitable.
 - 3.1.1 From a one-foot square area. SCRAPE soil from within the square, not exceeding a depth of one inch, and store in the sample container.

NOTE: Maximize collection of the upper most soil area.

- 3.1.2 **IDENTIFY** sampling area with sample point flag or fluorescent spray paint. Information on the exact location, nature of terrain, vegetation cover, nearby trees, etc., should also be noted.
- 3.1.3 FILL the plastic container, CLOSE, and PLACE a completed label on the container. PLACE the labeled sample container in a clean plastic bag and SEAL tightly.

4. **VEGETATION SAMPLES**

4.1 COLLECT the leafy portion of pasture-type grass only. Weeds and other types of vegetation are discouraged. (sample size: quantity sufficient to fill 1 quart plastic cube container, packed tightly, or other appropriate size container)

NOTE: New vegetation growth is desirable; do not sample dried grass.

- 4.1.1 NOTIFY Environmental Coordinator if vegetation is limited.
- 4.1.2 IDENTIFY sampling area with sample point flag or fluorescent spray paint.
- 4.1.3 FILL the plastic container, CLOSE, and PLACE a completed label on the container. PLACE the labeled sample container in a clean plastic bag and SEAL tightly.

ENVIRONMENTAL SAMPLE COLLECTION (MID-WEST ROG)

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5. **SNOW SAMPLES**

NOTE: Snow Sampling is dependent on weather conditions and proper site selection. Areas where the wind has swept away snow cover, drifting has occurred; or the snow has been disturbed by outside sources (plowing, snow mobiles, etc.) should be avoided.

5.1 LINE the bucket with a plastic bag. If a bucket is unavailable, a representative sample may be obtained by filling a 1 quart container 12 times and placing the sample in a plastic bag.

NOTE: Sample volume should exceed 1 liter of melted snow or approximately 3 gallons of packed snow.

- 5.2 PACK lined bucket with snow taken from selected area:
 - 1. If a crust layer remains from an earlier snow, then COLLECT snow from surface to crust layer.
 - 2. If snow has fallen after release, then COLLECT crust layer and loose snow next to crust layer, sweeping away new fallen snow.
 - 3. If unsure of the time it snowed, then COLLECT snow closest to ground level.
- 5.3 SEAL sample bag securely, PLACE sample inside another plastic bag and SEAL tightly.
- 5.4 **MEASURE** area sampled in square feet and depth in inches.
- 5.5 **IDENTIFY** sampling area with sample point flag or fluorescent spray paint.
- 5.6 PLACE a completed label on double bagged sample and PLACE in a (third) clean plastic bag; SEAL tightly for storage.
- 5.7 **RECORD** any unusual features or terrain information on the back of the Environmental Assessment Log (Attachment 3).

ATTACHMENT 6 (MID-WEST ROG) ENVIRONS GROUP TRANSFER OR SHIPMENT OF ENVIRONMENTAL RADIOLOGICAL SAMPLES TO RADIOANALYTICAL LABORATORIES Page 1 of 4

MWROG Only

This Attachment describes the methods to be used to transfer or ship environmental samples to a counting laboratory. Environmental samples shall be collected and packaged as described in EP-AA-112-500, Attachment 5, if the conversion factors supplied in this procedure are to be used when determining shipping requirements.

Personnel transporting environmental samples should have completed an Exelon Nuclear equivalent radiation worker training program.

Ensure samples are appropriately labeled with Field Monitoring Team Identification, sample volume, sample location, and sample date and time.

Personnel handling environmental sampling shall wear specified dosimetry and protective clothing, as appropriate.

Caution should be exercised when handling environmental samples to limit the spread of contamination and maintain personnel exposure ALARA.

Consult with appropriate Federal Regulatory Agencies and offsite Agencies to determine whether the steps of this procedure apply, in situations where high contamination are found in the environment, consider requesting exemptions from shipping requirements in order to expedite critical analyses.

Dose rate measurements of the sample containers should be performed in an area where background is less than 100 cpm on a GM instrument (<0.1 mR/hr).

Sample measurements exhibiting an exposure level of greater than 0.5 mR/hr when using an ion chamber device or 2,500 cpm on a GM instrument shall be classified as radioactive material for shipment purposes. All calculations for shipping assume the environmental mix is all radioactive iodines.

Section 1; Sample Transfer and Shipment

Table 6-1, Sample Data - Used as Basis Document for determination of average sample weights and specific activity. Not required by procedure user.

Table 6-2, Direction to Radiological Environmental Contractor

ATTACHMENT 6 (MID-WEST ROG) ENVIRONS GROUP TRANSFER OR SHIPMENT OF ENVIRONMENTAL RADIOLOGICAL SAMPLES TO RADIOANALYTICAL LABORATORIES Page 2 of 4

1. SAMPLE TRANSFER AND SHIPMENT

- 1.1 Field Monitoring Team Personnel
 - 1.1.1 **PERFORM** a contamination survey on the exterior of the sample container.
 - 1.1.2 **DECONTAMINATE** the container (or change containers) until exterior surfaces are free of detectable radioactive contamination.
 - 1.1.3 PERFORM an exposure rate survey using an ion chamber device or instrument of similar sensitivity at the center for the sample of interest. REPORT survey results to the Environmental Coordinator.
- 1.2 Environmental Coordinator or Staff
 - 1.2.1 If no detectable exposure level exists, shipping requirements do not apply.
 - CONTACT the radiological environment contractor and CONFIRM any special handling requirements and contractor's readiness to receive samples.
 - INSTRUCT the Field Monitoring Team or runner to transfer samples to the laboratory. Directions are found in Table 6-2.
 - 1.2.2 If detectable exposure levels exist, shipping requirements apply.
 - CALCULATE the curie content of each shipping package in accordance with the station shipping procedures.
 - COMPLETE required shipping papers in accordance RP-AA-600.
 - INSTRUCT Environs Team or runner on sample shipment requirements. Directions to the laboratory are found in Table 6-2.

ATTACHMENT 6 (MID-WEST ROG) ENVIRONS GROUP TRANSFER OR SHIPMENT OF ENVIRONMENTAL RADIOLOGICAL SAMPLES TO RADIOANALYTICAL LABORATORIES Page 3 of 4

TABLE 6-1 SAMPLE DATA

Page 1 of 1

A. Grass Sample

Trial	Tare	Gross	Net		
	Wt (gm)	Wt (gm)	Wt (gm)		
1	91.33	144.13	72.80		
2	71.33	137.27	65.94		
3	71.33	128.17	56.84		
4	71.33	136.43	65.10		
5	71.33	133.01	61.68		
6	70.07	136.43	61.36		

n = 6

x = 63.95 gms

s = 5.40 gms

C. Water Samples (Gallon Container)

Trial	Tare	Gross	Net		
	Wt (gm)	Wt (gm)	Wt (gm)		
1	75.08	4280	4205		
2	75.08	4235	4160		
3	75.08	4230	4155		
4	75.08	4215	4140		
5	75.08	4250	4175		
6	74.28	4225	4151		
7	74.28	4200	4206		
8	74.28	4285	4211		
9	74.28	4285	4211		
10	74.28	4310	4236		

n = 10

x = 4185 gms

s = 33 gms

B. Dirt Samples

Trial	Tare Wt (gm)	Gross Wt (gm)	Net Wt (gm)
1		1027.87	956.54
2	71.33	910.43	847.10
3	71.33	1007.31	935.98
4	70.07	979.88	909.81
5	70.07	962.11	892.11
6	70.07	1007.74	937.67

n = 6

x = 913.19 gms

 $s = 39.56 \, \text{gms}$

n = Number of Trials

x = Average Weight (gm)

s = Standard deviation of the sample

ATTACHMENT 6 (MID-WEST ROG) ENVIRONS GROUP TRANSFER OR SHIPMENT OF ENVIRONMENTAL RADIOLOGICAL SAMPLES TO RADIOANALYTICAL LABORATORIES Page 4 of 4

TABLE 6-2

Directions To Radiological Environmental Contractor Teledyne Isotopes

Page 1 of 1

Teledyne Isotopes 700 Landwehr Northbrook, IL 60062

8 a.m. - 5:45 p.m.

- From I-294 (Tri-State Tollway) South: Exit east (right) on Willow Road. Proceed to Landwehr and turn north (left). Follow Landwehr past Dundee Road. Teledyne is located 1 and 1/2 blocks north of Dundee on the west (left) side.
- From I-94 North. Exit west (left) on Dundee Road. Proceed to Landwehr and turn north (right). Teledyne is located 1 and 1/2 blocks north of Dundee on the west (left) side.
- From US-41 South. Exit west (right) on Lake-Cook Road. Proceed to US-43 and turn south (left). Go to Dundee and turn west (right). Proceed to Landwehr and turn north (right); Teledyne is located 1 and 1/2 blocks north of Dundee on the west (left) side.
- From I-55 South. North on I-294 (Tri-State Tollway). I-294 to Willow Road exit, go east (right) on Willow Road. Proceed to Landwehr and turn north (left). Follow Landwehr past Dundee Road. Teledyne is located 1 and 1/2 blocks north of Dundee on the west (left) side.
- From I-88 East, North on I-294 (Tri-State Tollway). I-294 to Willow Road exit, go east (right) on Willow Road. Proceed to Landwehr and turn north (left). Follow Landwehr past Dundee Road. Teledyne is located 1 and 1/2 blocks north of Dundee on the west (left) side.

MOBILIZATION AND DIRECTION OF ENVIRONMENTAL SAMPLING VENDOR (MID-ATLANTIC ROG)

Page 1 of 2

Mid-Atlantic ROG

<u></u>	
<u>PART 1</u> :	MOBILIZATION
	ent describes the process for contacting and coordinating the collection all samples through the contracted REMP Environmental Sampling Vendor
1	CONTACT the ESV, using the ERF Telephone Directory, and INFORM them of a potential for a radiological release.
2	ESTABLISH a communication protocol between the Environmental Coordinator (EOF) and the ESV.
3	DIRECT the ESV to prepare for a radiological release, and PROVIDE them the following information:
	 Affected Site Wind Direction / Speed Radiological Release Status Anticipated Time of Release
	NOTE: Per their procedure, the ESV will contact the REMP radiological analytical laboratories and TLD vendor.
4	OBTAIN from the ESV a list of names of individuals who will be traveling in the EPZ to be provided to the State Police and Security Coordinator.
5	If available, then DIRECT ESV to pick up electronic dosimetry and place in field as part of Step 6.7
	NOTE: Steps 6 & 7 should be performed starting with the down wind, affected sectors and then to other sectors.
6	DIRECT the ESV to begin placing air pumps at the sites.
7	PLACE the emergency air pumps in service.
8	When the above steps are completed or if offsite radiological conditions change, DIRECT the ESV to relocate to an upwind distance and await further instructions

MOBILIZATION AND DIRECTION OF ENVIRONMENTAL SAMPLING VENDOR (MID-ATLANTIC ROG)

Page 2 of 2

Mid-Atlantic ROG

PART 2:	RECOVERY PHASE				
1	EVALUATE offsite dose, and as appropriate, REQUEST Exelon Nuclear Radiation Protection (RP) support from the EOF Radiation Protection Manager for the ESV.				
2	DIRECT the ESV to collect the following samples, as appropriate:				
	a Air particulate and iodine samples from all air sampling equipment				
	NOTE: At each REMP sampling location, there are two (2) TLDs. One (1) TLD may be removed, but only if it is being replaced. The 2 nd TLD must remain until the end of the sampling quarter.				
	b Electronic dosimetry or TLDs				
	c Milk				
	d Vegetation				
	e Water				
	f Soil				
3	DETERMINE an appropriate sample delivery staging area.				
4	REQUEST Exelon Nuclear support from the EOF Radiation Protection Manager for radioactive shipping expertise.				

ATTACHMENT 8 SATELLITE TELEPHONE OPERATIONS (Mid-West ROG) Page 1 of 2

Mid-West ROG

The satellite phone system provides phone communication and two-way radio coverage. This system provides clarity and security to assure private communications through an all-digital network.

Each satellite phone includes a handset for phone conversations and a push-to-talk (PTT) microphone for radio communications. All Field Survey Team communicators will use the PTT

Powering On Unit:

1. **PRESS** and **HOLD** the PWR key on either PTT or telephone handset to power on the Mobile Terminal (MT).

NOTE: If you power on the unit using the telephone handset, the PTT display will read *SLEEP*. To activate PTT, *PRESS* and *HOLD* any key on the PTT keypad (except PWR or BAR).

- 2. If using a land mobile unit, remain stationary until the satellite has been acquired and the service is ready to use.
- 3. You will see *NO SVC* in the upper right corner of the PTT display. Within 20 seconds to one minute, your MT should be locked on the satellite; *NO SVC* will disappear from the display and you will be ready to use the service. If the *NO SVC* display does not disappear after 1 minute, push the * key and wait 20 seconds. Repeat, if necessary.

<u>ATTACHMENT 8</u>

SATELLITE TELEPHONE OPERATIONS (Mid-West ROG) Page 2 of 2

Mid-West ROG

Initiating a Radio Call:

1. **PRESS** and **HOLD** the PTT. When the display reads **SELF** you will hear a two-tone beep. You can begin talking, holding mic approximately two inches from your mouth.

NOTE: WAIT until SELF is displayed before speaking to avoid having your voice cut off.

2. **RELEASE** the PTT when finished speaking and the display will change to **VACANT**, accompanied by a single beep. Someone can now respond to you.

NOTE: **VACANT** means that the talk group is still active and anyone can now become the speaker.

- When someone in the talk group responds, you will see their unique four-digit Directory Number (DN) appear on the PTT display. When they stop talking, the DN will be replaced by VACANT.
- 3. You can respond to a communication as soon as you see *VACANT* on your display. To respond, simply *PRESS* and *HOLD* the PTT. When *SELF* is displayed, you may begin speaking. Release PTT when finished speaking.

NOTE: A talk group will remain in the *VACANT* state for 10 seconds if another user does not PTT. After 10 seconds in the *VACANT* state the call will be terminated.

When *IDLE* is displayed it means the talk group has stopped. You must follow the steps for initiating a radio call to re-establish communications on the talk group.

The cue that the talk group is available - VACANT - is always accompanied by a single beep. The cue that you may speak - SELF - is always accompanied by a two-tone beep. Once users become accustomed to the service they can navigate usage through audio tones without relying on the PTT display.

Field Monitoring Team Radio Operating Guidelines (TMI Only) Page 1 of 2

TMI Station

This attachment provides guidance on the operation of the station radio frequency to support communications with field monitoring team personnel.

A. **TURN ON** the portable radio by rotating the "power on-off / volume" knob clockwise.

The radio will perform a "power up self test" and then display":

- Its unit number (e.g., "TMI P 1" is portable radio #1), and
- Either "EARS" or "CC SCAN" depending on whether the radio is receiving the system Control Channel signal (i.e., if "CC SCAN" appears, the radio is out of range or in a bad location).

B. To Transmit:

- 1. **VERIFY** that "EARS" is displayed on the front of the radio and then **PRESS** the Push-To-Talk (PPT) button (elongated button on the left side of the radio).
- 2. When a short, medium pitch beep is heard, BEGIN speaking.
 - If a high pitch beep is heard when the PPT button is pressed, then the
 system is temporarily busy. NO NOT release the PPT button, but rather
 continue pressing it and wait for the short medium pitch beep before
 starting to speak. The delay should typically be not more than a few
 seconds.
- 3. When speaking, **HOLD** the radio approximately 3 inches from the mouth and **SPEAK** in a normal voice.

C. Receiving:

 When a call is being received, the calling station's identification is displayed in the upper line of the radio's display.

Field Monitoring Team Radio Operating Guidelines (TMI Only) Page 2 of 2

D. System Status Beeps:

The radio will indicate system status by emitting any of seceral beeps:

- A short medium pitch beep indicates that the radio has begun to transmit and the user may begin to speak.
- A high pitch beep indicates that all system channels are busy and the radio is waiting for the next available channel. <u>The user should continue</u> <u>pressing the PPT button until a short medium pitch beep is heard and then</u> <u>begin speaking</u>.
- If five short high pitch beeps are heard while transmitting, this indicates that the radio is approaching its 60-second transmission length limit.

 Unless the radio is unkeyed before the long low pitch is heard, the radio will stop transmitting and information will be missed. Long transmissions should be broken into several shorter transmissions to avoid this.
- A low pitch beep simultaneous with the appearance of a battery icon in the lower right corner of the display indicates that the battery voltage is low and the battery should be charged.

E. To Replace the Battery Pack:

- 1. TURN OFF the radio.
- 2. **DEPRESS** the recessed button beside the belt clip on the rear of the radio and **SLIDE** the battery toward the bottom of the radio.
- 3. LIFT the battery up from the radio.
- 4. [To install a fresh battery pack] ALIGN the tabs on the battery with the slots on the radio and SLIDE the battery pack toward the top of the radio until it clicks.
- F. The channel selector knob and the buttons on the front panel of the radio serve no function and should not be manipulated.

ENCLOSURE 2

LIMERICK GENERATING STATION, UNITS 1 & 2

Docket Nos. 50-352 50-353

License Nos. NPF-39 NPF-85

EMERGENCY RESPONSE PROCEDURE

REPORT INDEX

PROCEDURE INDEX REPORT:

				CHEE				
		DOC PROC		REV		EFFECTIVE	RESP	SYSTEM
ı		TYPE TYPE	PROCEDURE NUMBER	NBR	TITLE	DATE	GROUP	NBR
								_
		PROC EP	EP-AA-1	0000	EMERGENCY PREPAREDNESS	10/20/00		,
		PROC EP	EP-AA-10	0001	EMERGENCY PREPAREDNESS PROCESS DESCRIPTION	12/12/02		*
	LG	PROC EP	EP-AA-11	0001	OPERATING STATIONS EMERGENCY PREPAREDNESS PROCESS DESCRIPTION	12/12/02		
- 1	L.G	PROC EP	EP-AA-1101	0001	EP FUNDAMENTALS	12/20/02		
- 1	LG	PROC EP	EP-AA-1102	0000	ERO FUNDAMENTALS	12/20/02		
	LG	PROC EP	EP-AA-110	0004	ASSESSMENT OF EMERGENCIES	02/20/03		
	LG	PROC EP	EP-AA-110-301	0002	CORE DAMAGE ASSESSMENT (BWR)	10/31/03		
	LG	PROC EP	EP-AA-110-302	0001	CORE DAMAGE ASSESSMENT (PWR)	12/03/02		
					****NO HARDCOPY DIST AT LGS SEE P4****			
	LG	PROC EP	EP-AA-111	0007	EMERGENCY CLASSIFICATION AND PROTECTIVE ACTION RECOMMENDATIONS	09/18/03		
	LG	PROC EP	EP-AA-112	0008	EMERGENCY RESPONSE ORGANIZATION (ERO)/EMERGENCY RESPONSE	05/23/03		
					FACILITY (ERF) ACTIVATION AND OPERATION			
	LG	PROC EP	EP-AA-112-100	0005	CONTROL ROOM OPERATIONS	02/20/03		
		PROC EP	EP-AA-112-200	0004	TSC ACTIVATION AND OPERATION	02/20/03		
	LG	PROC EP	EP-AA-112-201	0001	TSC COMMAND AND CONTROL	02/20/03		
		PROC EP	EP-AA-112-202	0001	TSC FACILITY SUPPORT GROUP	02/20/03		
		PROC EP	EP-AA-112-203	0001	TSC OPERATION GROUP	02/20/03		
		PROC EP	EP-AA-112-204	0001	TSC TECHNICAL SUPPORT GROUP	02/20/03		
	LG	PROC EP	EP-AA-112-205	0001	TSC MAINTENANCE GROUP	02/20/03		
		PROC EP	EP-AA-112-206	0001	TSC RADIATION PROTECTION/CHEMISTRY GROUP	02/20/03		
		PROC EP	EP-AA-112-300	0004	OPERATIONS SUPPORT CENTER ACTIVATION AND OPERATION	02/20/03		
		PROC EP	EP-AA-112-400	0004	EMERGENCY OPERATIONS FACILITY ACTIVATION AND OPERATION	02/20/03		
		PROC EP	EP-AA-112-401	0002	NUCLEAR DUTY OFFICER (NDO)	10/13/03		
		PROC EP	EP-AA-112-402	0001	EOF COMMAND AND CONTROL	02/20/03		
		PROC EP	EP-AA-112-403	0002	EOF LOGISTICS SUPPORT GROUP	09/18/03		
		PROC EP	EP-AA-112-404	0001	EOF TECHNICAL SUPPORT GROUP	02/20/03		
		PROC EP	EP-AA-112-405	0001	EOF PROTECTIVE MEASURES GROUP	02/20/03		
		PROC EP	EP-AA-112-600	0006	JOINT PUBLIC INFORMATION CENTER (JPIC) ACTIVATION	05/23/03		
		PROC EP	EP-AA-112-601	0001	EMERGENCY NEWS CENTER (ENC) OPERATIONS	02/20/03		
		PROC EP	EP-AA-112-602	0002	JPIC ACTIVATION AND OPERATION	05/23/03		
		PROC EP	EP-AA-113	0004	PERSONNEL PROTECTIVE ACTIONS	08/30/02		
		PROC EP	EP-AA-114	0004	NOTIFICATIONS	02/20/03		
		PROC EP	EP-AA-115	0002	TERMINATION AND RECOVERY	09/18/03		
		PROC EP	EP-AA-120	0003	EMERGENCY PLAN ADMINISTRATION	12/20/02		
	LG	PROC EP	EP-AA-120-1001	0003	10 CFR 50.54(Q) CHANGE EVALUATION	05/21/03		
		PROC EP	EP-AA-120-1002	0000	STORM/EVENT RESTORATION	10/09/02		
		PROC EP	EP-AA-121	0003	EMERGENCY RESPONSE FACILITIES AND EQUIPMENT READINESS	12/20/02		
		PROC EP	EP-AA-121-1001	0003	AUTOMATED CALL-OUT SYSTEM MAINTENANCE	05/21/03		
		PROC EP	EP-AA-122	0004	DRILLS AND EXERCISES	09/05/03		
		PROC EP	EP-AA-122-1001	0003	DRILL DEVELOPMENT. CONDUCT AND EVALUATION	09/05/03		
		PROC EP	EP-AA-122-1002	0003	EXERCISE DEVELOPMENT, CONDUCT AND EVALUATION	09/05/03		
		PROC EP	EP-AA-122-1003	0003	SCHEDULING OF DRILLS AND EXERCISES	09/05/03		
		PROC EP	EP-AA-122-1004	0002	DEMONSTRATION CRITERIA	09/05/03		
		PROC EP	EP-AA-123	0002	COMPUTER PROGRAMS	11/05/02		
		PROC EP	EP-AA-123-1003	0000	CORE DAMAGE ASSESSMENT METHODOLOGY (CDAM) PROGRAM TECHNICAL	10/31/03		
		2000	CO AA 404	0000	EMERGENCY PREPAREDNESS EMERGENCY PREPAREDNESS PROCESS DESCRIPTION OPERATING STATIONS EMERGENCY PREPAREDNESS PROCESS DESCRIPTION EP FUNDAMENTALS ERO FUNDAMENTALS ASSESSMENT OF EMERGENCIES CORE DAMAGE ASSESSMENT (BWR) OPERATION STATION AND PROTECTIVE ACTION RECOMMENDATIONS EMERGENCY CLASSIFICATION AND PROTECTIVE ACTION RECOMMENDATIONS EMERGENCY CLASSIFICATION AND PROTECTIVE ACTION RECOMMENDATIONS EMERGENCY RESPONSE ORGANIZATION (ERO)/EMERGENCY RESPONSE FACILITY (ERF) ACTIVATION AND OPERATION TSC COMMAND AND COPERATION TSC COMMAND AND CONTROL TSC FACILITY SUPPORT GROUP TSC ACTIVATION AND OPERATION TSC COMMAND AND CONTROL TSC FACILITY SUPPORT GROUP TSC AFAILING SUPPORT GROUP TSC AFAILING SUPPORT GROUP TSC RADIATION PROTECTION/CHEMISTRY GROUP OPERATIONS SUPPORT CENTER ACTIVATION AND OPERATION NUCLEAR DUTY OFFICER (NDO) OFC COMMAND AND CONTROL EOF LOGISTICS SUPPORT GROUP EOF PROTECTIVE METALONS FACILITY ACTIVATION AND OPERATION NUCLEAR DUTY OFFICER (NDO) OFC COMMAND AND CONTROL EOF LOGISTICS SUPPORT GROUP EOF PROTECTIVE MEASURES GROUP JOINT PUBLIC INFORMATION CENTER (JPIC) ACTIVATION EMERGENCY NEWS CENTER (ENC) OPERATIONS JPIC ACTIVATION AND OPERATION PERSONNEL PROTECTIVE ACTIONS NOTIFICATIONS TERMINATION AND RECOVERY EMERGENCY PLAN ADMINISTRATION 10 CFR 50.54(0) CHANGE EVALUATION STORM/EVENT RESTORATION EMERGENCY PLAN ADMINISTRATION 10 CFR 50.54(0) CHANGE EVALUATION STORM/EVENT RESTORATION EMERGENCY PLAN ADMINISTRATION EMERGENCY PLEN ADMINISTRATION 10 CFR 50.54(0) CHANGE EVALUATION STORM/EVENT RESTORATION EMERGENCY PRESPONSE FACILITIES AND EQUIPMENT READINESS AUTOMATED CALL—OUT SYSTEM MAINTENANCE DRILL DEVELOPMENT, CONDUCT AND EVALUATION EXERCISE DEVELOPMENT, CONDUCT AND EVALUATION PROCESS EMERGENCY PREPAREDNESS SELF EVALUATION PROCESS EMERGENCY PRE	10/01/03		
		PROC EP	EP-AA-124	0004	INVENTURIES AND SURVEILLANCES	12/20/02		
		PROC EP	EP-AA-125	0002	EMERGENCY PREPAREDNESS SELF EVALUATION PROCESS	12/20/02		
		PROC EP	EP-AA-125-1001	0002	EP PERFORMANCE INDICATOR GUIDANCE	12/20/02		
	LG	PROC EP	EP-AA-125-1002	0002	ENU PERFORMANCE - PERFORMANCE INDICATORS GUIDANCE	12/20/02		

LIMERICK GENERATING STATION

PROCEDURE INDEX REPORT:

FAC	DOC TYPE		PROCEDURE NUMBER	CURR REV NBR	TITLE	EFFECTIVE DATE	RESP GROUP	SYSTEM NBR
LG	PROC	EP	EP-AA-125-1003	0002	ERO READINESS - PERFORMANCE INDICATORS GUIDANCE	12/20/02		
LG	PROC	EP	EP-AA-125-1004		EMERGENCY RESPONSE FACILITIES & EQUIPMENT PERFORMANCE INDICATORS GUIDANCE			
LG	PROC	EP	EP-AA-125-1005		PROBLEM INDENTIFICATION & RESOLUTION PERFORMANCE INDICATOR GUIDANCE	12/20/02	•	
LG	PROC	EP	EP-LG-112-500	0000	EMERGENCY ENVIRONMENTAL MONITORING ERO COMPUTER APPLICATIONS DOSE ASSESSMENT MAROG OFFSITE LIAISONS ASSEMBLY AND SITE EVACUATION MID-ATLANTIC STATE/LOCAL NOTIFICATIONS	11/03/03		
LG	PROC		EP-MA-110-100	0002	ERO COMPUTER APPLICATIONS	07/01/03		
LG	PROC	EP	EP-MA-110-200	0003	DOSE ASSESSMENT	08/08/03		
LG	PROC	EP	EP-MA-112-406	0001	MAROG OFFSITE LIAISONS	02/20/03		
LG	PROC	EP	EP-MA-113-100	0002	ASSEMBLY AND SITE EVACUATION	10/31/03		
LG	PROC	EP	EP-MA-114-100	0005	MID-ATLANTIC STATE/LOCAL NOTIFICATIONS	09/18/03		
LG	PROC	EP	EP-MA-121-1002	0000	ALERT NOTIFICATION SYSTEM (ANS) DESCRIPTION, TESTING, MAINTENANCE AND PERFORMANCE TRENDING PROGRAM	12/20/02		
LG	PROC	EP	EP-MA-121-1004	0000	EMERGENCY PREPAREDNESS ALERT NOTIFICATION SYSTEM (ANS) CONTROL OF EQUIPMENT & OUTAGES	12/20/02		
LG	PROC	EP	EP-MA-123-1001	0000	KI ASSESSMENT SPREADSHEET TECHNICAL BASIS	07/01/03		
LG	PROC	EP	EP-MA-123-1004	0000	DOSE ASSESSMENT AND PROTECTIVE ACTION RECOMMENDATION (DAPAR) PROGRAM TECHNICAL BASIS FOR LIMERICK GENERATING STATION	08/08/03		
LG	PROC	EP	EP-MA-124-1001	0003	FACILITY INVENTORIES AND EQUIPMENT TESTS	10/13/03		

** END OF REPORT **