



May 2, 2002

L-2002-083  
10 CFR 50 Appendix E

U. S. Nuclear Regulatory Commission  
Attn: Document Control Desk  
Washington, D. C. 20555

Re: St. Lucie Units 1 and 2  
Docket Nos. 50-335 and 50-389  
Emergency Plan Implementing Procedure

In accordance with 10 CFR 50 Appendix E, enclosed is a copy of the revised procedure that implements the Emergency Plan as listed below.

<u>Number</u>	<u>Title</u>	<u>Revision</u>	<u>Implementation Date</u>
HP-90	Emergency Equipment	39	April 17, 2002

HP-90 Revision 39 revised emergency equipment checking and inventorying from monthly to quarterly. In addition, Eberline Models AMS-2/3 Air Monitoring Systems were added to inventory.

Please contact us if there are any questions regarding this procedure.

Very truly yours,

  
Donald E. Jernigan  
Vice President  
St. Lucie Plant

DEJ/tlt

Enclosure

A045



# ST. LUCIE PLANT HEALTH PHYSICS PROCEDURE

SAFETY RELATED

Procedure No.  
**HP-90**

Current Rev. No.  
**39**

Effective Date:  
**04/17/02**

Title:

## EMERGENCY EQUIPMENT

Responsible Department: **HEALTH PHYSICS**

### Revision Summary

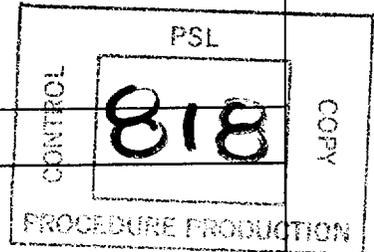
**Revision 39** - Changed Section 4.2 from month to quarter and added AMS-2/3 to inventory. (Donald Reisinger, 03/28/02)

**Revision 38** - Changed to reflect moving of emergency monitoring kits from SAS to OSC area in SSB. (Don Reisinger, 11/12/01)

**Revision 37** - Deleted references to STA, revised TSC commo survey referent to EPIP-13, revised replacement time for failed major equipment within the OCA to 24 hours, made editorial changes, and revised attachments/forms from HP-206 to be included in e-kits. (J. R. Walker, 12/07/00)

**Revision 36** - Added check of fax machines and copy machines and deleted unnecessary letter references to specific copies of ERD. (Steve Knapp, 10/28/99)

**Revision 35** - Revised references to delete C-111 and added COP-06.11. Revised text and checklists to delete C-111 and added COP-06.11. Updated EP Supervisor information. Made administrative changes. (Rick Walker, 06/30/99)



Revision	FRG Review Date	Approved By	Approval Date	S__OPS
0	06/24/75	K. N. Harris Plant General Manager	09/11/75	DATE _____ DOCT PROCEDURE DOCN HP-90 SYS _____ COMP COMPLETED ITM 39
39	03/28/02	R. G. West Plant General Manager	03/28/02	
		N/A Designated Approver		
		N/A Designated Approver (minor correction)		

ST. LUCIE PLANT  
HEALTH PHYSICS OPERATING PROCEDURE NO. HP-90, REVISION 39  
EMERGENCY EQUIPMENT

1.0 TITLE:

EMERGENCY EQUIPMENT

2.0 REVIEW AND APPROVAL:

See cover sheet.

3.0 PURPOSE:

This procedure gives the instructions to be used when conducting inventories and maintenance of HP Emergency Kits.

4.0 PRECAUTIONS AND LIMITATIONS:

4.1 Item substitution is authorized only if the substituted item is comparable/equivalent to the original equipment.

4.2 All emergency equipment shall be checked and inventoried once each quarter and within five (5) working days following each use. /R39

4.3 Items found in Emergency Kits which do not appear on the inventory sheets shall be removed and relocated in accordance with the instructions of a Health Physics Supervisor. This does not apply at hospitals, where FPL and non-FPL supplies may be co-located in accordance with hospital staff preferences. /R39

4.4 In years ending in zero (0) or five (5), all inventoried equipment should be evaluated with respect to age, wear and need for replacement or upgrade.

4.5 Kit check sources used to test instrument operability should NOT be stored near the kit TLDs.

4.6 Silver impregnated zeolite cartridges may be properly stored for a period of five years from the date of manufacture.

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4.0 PRECAUTIONS AND LIMITS: (continued)

4.7 Electronic Personnel Dosimeters (EPD) stored in the Control Rooms and offsite monitoring team kits shall be programmed to:

1. Display both Dose and Dose Rate.
2. Activate by pushing the pushbutton.
3. Alarm on a dose of 4.5R and a Dose Rate of 10R/hr.

¶ 4.8 When notified by Emergency Planning that a revision to a procedure contained in the HP Emergency Kits has been issued, HP should update the procedure with the new revision within five (5) working days.

4.9 Full face respirators in the Emergency Kits shall be visually inspected in accordance with the requirements of HPP-62, Inspection and Maintenance of Respiratory Protection Equipment.

5.0 RELATED SYSTEM STATUS:

NONE

6.0 REFERENCES:

- 6.1 St. Lucie Plant Radiological Emergency Plan (E-Plan)
- 6.2 E-Plan Implementing Procedures (EPIP 00-13)
- 6.3 St. Lucie Plant Emergency Response Directory (ERD)
- 6.4 Florida Power & Light Company, St. Lucie Plant Recovery Plan
- 6.5 HPP-62, "Inspection and Maintenance of Respiratory Protection Equipment."
- 6.6 HPP-70, "Personnel Contamination Monitoring and Decontamination Procedure."
- 6.7 HPP-101, "Identification and Reporting of Radiological Events."
- 6.8 Health Physics Procedures, HP-200 Series
- 6.9 COP-06.06, "Guidelines for Collecting Post Accident Samples."

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6.0 REFERENCES:

- 6.10 COP-06.11, "Establishing Remote Laboratory for Analyses of Accident Samples."
- 6.11 OP 1-0010125, "Schedule of Periodic Tests, Checks and Calibrations."
- 6.12 OP 2-0010125, "Schedule of Periodic Tests, Checks and Calibrations."
- 6.13 NRC Generic Letter 91-14, Emergency Telecommunications.
- 6.14 NRC Administrative Letter 94-04, Change of the NRC Operations Center Commercial Telephone and Facsimile Numbers.
- 6.15 OSHA 1926.404(b)(iii), Assured Equipment Grounding Conductor Program.
- ¶<sub>1</sub> 6.16 PMAI number PM 97-04-006, EPIP Updates in HP EKits
- ¶<sub>2</sub> 6.17 PMAI number PM 97-04-147, Shaving Supplies in HP EKits
- ¶<sub>3</sub> 6.18 PMAI number PM 97-07-142, First-aid Kit in Site Assembly Station
- ¶<sub>4</sub> 6.19 PMAI number PM 99-09-076, Fax and Copy Machine Tests
- 6.20 Calibration, Operation, and Operational Check of the Eberline Models AMS-2 and AMS-3 Air Monitoring Systems /R39

7.0 RECORDS REQUIRED:

- 7.1 Inventory sheets for each of the locations listed in 8.2 below (HP-90) - Attachments #1-7 shall be maintained in the plant files in accordance with QI-17-PSL-1 "Quality Assurance Records."

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EMERGENCY EQUIPMENT

8.0 INSTRUCTIONS:

8.1 Prior to conducting inventories of the kits:

1. Ascertain the current revision number of Emergency Planning documents.
  - A. Contact the Nuclear Records Vault for 1, 2 and 3 below.
  - B. Access the Controlled Electronic Procedure Index (in Lotus Notes) for all other documents (4-10 below).

NOTE

Kits designating that full sets of EIPs and/or HP-200 series procedures are available, shall contain all the procedures in Table 1 and/or Table 2, as applicable.

1. St. Lucie Plant Radiological Emergency Plan (E-Plan)
2. St. Lucie Plant Emergency Response Directory (ERD)
3. Florida Power & Light Company, St. Lucie Plant Recovery Plan
4. EIPs (see Table 1)
5. HP-200 Series (see Table 2)
6. HPP-70, "Personnel Contamination Monitoring," (Form HPP-70.1, Personnel Skin and Clothing Contamination Report)
7. HP-90, "Emergency Equipment"
8. HPP-101, "Identification and Reporting of Radiological Events," (Form HPP-101.1, Radiological Event Report)
9. COP-06.06, "Guidelines for Collecting Post Accident Samples"
10. COP-06.11, "Establishing Remote Laboratory for Analyses of Accident Samples."

The procedure distribution is listed on the inventory sheet.

ST. LUCIE PLANT  
HEALTH PHYSICS OPERATING PROCEDURE NO. HP-90, REVISION 39  
EMERGENCY EQUIPMENT

8.0 INSTRUCTIONS: (continued)

8.1 (continued)

2. Contact Emergency Planning to determine if any procedure revisions are available to be added to the emergency kits.
3. Contact Land Utilization to arrange for access to the Emergency Operations Facility (EOF), if necessary (i.e., not on the access list).

8.2 Inventory all items, verifying that the proper supplies are present. Use the appropriate inventory list.

1. Attachment 1 - Unit 1 Control Room/Technical Support Center Emergency Kit
2. Attachment 2 - Unit 2 Control Room Emergency Kit
3. Attachment 3 - Operational Support Center Emergency Kit
4. Attachment 4 - Site Assembly Station Emergency Kit
5. Attachment 5 - Field Monitoring Team Emergency Kit (complete 1 attachment for each kit)
6. Attachment 6 - Emergency Operations Facility Emergency Kit
7. Attachment 7 - Hospital Emergency Kit (complete one attachment for each hospital)

8.3 Any equipment which is out of calibration, fails the operability check, or appears to be unusable shall be replaced.

1. An asterisk designates a major piece of equipment. If a major piece of equipment is found to be deficient, the equipment must be replaced as follows:
  - A. For Emergency Kits located within the Owner Controlled Area - within 24 hours.
  - B. For Emergency Kits located outside the Owner Controlled Area - within 48 hours.

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8.0 INSTRUCTIONS: (continued)

- 8.4 Quantities of non-asterisked inventory items may be exceeded, but shall not be less than that indicated on the attachment. An item found to be in a quantity less than that listed on the attachment shall be replenished by the time of the next inventory.
- 8.5 Perform operability checks of instruments in accordance with Appendix A, Operability Instructions.
- 8.6 Verify that dosimetry is current.

NOTE

Not all dosimetry is required in each Emergency Kit.

1. Direct Reading Dosimeter (DRD). DRDs are calibrated every six (6) months.
  - A. 0-500 mR
  - B. 0-5 R
  - C. 0-20 R
  - D. 0-100 R
2. Electronic Personal Dosimeter (EPD)
  - A. Alarm Setpoint, Dose: 4.5 R
  - B. Alarm Setpoint, Dose Rate: 10 R/hr
3. Thermoluminescent Dosimeter (TLD). TLDs are changed out in the kits on a semi-annual basis.
  - A. Whole Body
  - B. Extremity
  - C. Finger Rings

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8.0 INSTRUCTIONS: (continued)

- 8.7 Verify that respirators are visually inspected as prescribed in HPP-62, Inspection and Maintenance of Respiratory Protection Equipment.
- 8.8 Verify that silver zeolite cartridges are current. Inform the Health Physics Technical Supervisor when the posted shelf life of the cartridges is within three (3) months of expiring.
- 8.9 Extension cords stored in the Emergency Kits shall be tested or replaced with tested extension cords after use.
1. A testing device is available in each kit which has extension cords.
  2. Record test results or cord replacement in the "Remarks" section (e.g., all extension cords passed; one extension cord replacement due to test failure).

NOTE

The portable count rate instruments (friskers) and the dual channel analyzers are exempt from this instruction because they require re-chargeable batteries. Spare instruments are available as backups should one of these instruments (friskers) experience battery failure.

- 8.10 Verify that there is a sufficient supply of spare batteries available for all instruments and equipment requiring batteries.
1. Replace any battery or package of batteries which is approaching (prior to the end of the current quarter) or exceeds its expiration date or shelf life. /R39
  2. Every first and third quarter, inspect batteries in all instruments and equipment for signs of deterioration or leaks and replace, as necessary. /R39
- 8.11 Verify that the procedures contained in the kit are the current revisions, if not, replace procedure with a **controlled copy** of the current revision.
- 8.12 Perform monthly test of communications equipment with state and local governments and the NRC in accordance with Appendix B, Instructions for Testing Emergency Communications Equipment.

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8.0 INSTRUCTIONS: (continued)

8.13 Complete the inventory form as follows:

1. Indicate the results of the operability checks of the kit instruments by marking "Pass" or "Fail" on the appropriate attachment. Record any discrepancy in the "Remarks" section.
2. Dosimetry, dress-out supplies, and other equipment should be evaluated against the "Minimum Quantity" requirements as listed on the inventory form. Record the "As Found" condition as either "Pass" or "Fail". Indicate any discrepancy in the "Remarks" section.
3. Review all documents, procedures, and logs and show whether they are "Available" or "Unavailable". Record any discrepancy in the "Remarks" section.
4. Indicate the results of the communications tests by marking "Pass" or "Fail" on the appropriate attachment. Record any discrepancy in the "Remarks" section.
5. Upon completion of the inventory, close and lock the kit and sign and date the attachment in the blanks labeled "Inventoried by" and "Date".

8.14 A copy of each completed inventory (attachment) is required.

1. Conspicuously post the copy of the inventory on the front of the Emergency Kit for ready reference by the next user of the kit.
2. Provide the original to an HP Supervisor for review.

8.15 An HP Supervisor shall review all completed inventories.

1. A PMAI is to be issued by the reviewing HP Supervisor for each item which is not addressed in 8.3 or 8.4 above and can not be resolved within five (5) working days of identification.

The PMAI number is to be recorded in the "Remarks" section of the affected attachment.

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8.0 INSTRUCTIONS: (continued)

8.15 (continued)

2. Sign and date the reviewed inventories in the "Reviewed by" and "Date" blanks on each attachment.
3. A copy of each reviewed attachment is to be forwarded to Emergency Planning.
4. The originals of all reviewed attachments are to be sent to the Nuclear Records Vault.

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EMERGENCY EQUIPMENT

**TABLE 1**  
**EMERGENCY PLAN IMPLEMENTING PROCEDURES**

EPIP-00 -	"Discovery & Identification of an Emergency Condition (Including Chemical, Fire and Natural Emergencies)"
EPIP-01 -	"Classification of Emergencies"
EPIP-02 -	"Duties and Responsibilities of the Emergency Coordinator"
EPIP-03 -	"Emergency Response Organization Notification/Staff Augmentation"
EPIP-04 -	"Activation and Operation of the Technical Support Center"
EPIP-05 -	"Activation and Operation of the Operational Support Center"
EPIP-06 -	"Activation and Operation of the Emergency Operations Facility"
EPIP-07 -	"Conduct of Evacuations/Assembly"
EPIP-08 -	"Off-site Notifications and Protective Action Recommendations"
EPIP-09 -	"Off-site Dose Calculations"
EPIP-10 -	"Off-site Radiological Monitoring"
EPIP-11 -	"Core Damage Assessment"
EPIP-12 -	"Maintaining Emergency Preparedness - Radiological Emergency Plan Training"
EPIP-13 -	"Maintaining Emergency Preparedness - Emergency Exercises, Drills, Tests and Evaluations"

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**TABLE 2**  
**HP-200 SERIES PROCEDURES**

- HP-200 - "Health Physics Emergency Organization"
- HP-201 - "Emergency Personnel Exposure Control"
- HP-202 - "Environmental Monitoring During Emergencies"
- HP-203 - "Personnel Access Control During Emergencies"
- HP-204 - "In-Plant Radiation and Contamination Surveys During Emergencies"
- HP-205 - "Emergency In-Plant Air Sampling"
- HP-206 - "Analysis of Emergency In-Plant Air Samples"
- HP-207 - "Monitoring Evacuated Personnel During Emergencies"
- HP-208 - "Personnel Decontamination During Emergencies"

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**ATTACHMENT 1**  
**UNIT 1 CONTROL ROOM/TECHNICAL SUPPORT CENTER EMERGENCY KIT**  
(Sheet 1 of 4)

**NOTE**  
Inspect all batteries during first and third quarter inventories.

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	INSTRUMENTS	Pass	Fail
*	1. Portable Dose Rate Instrument (≥ 5R/hr)		
	Model No.:                      Serial No.:                      Calib. Due Date:		
	Perform operability check in accordance with Appendix A		
*	2. Portable Count Rate (Frisker) Instrument		
	Model No.:                      Serial No.:                      Calib. Due Date:		
	Perform operability check in accordance with Appendix A		
*	3. Portable Count Rate (Frisker) Instrument		
	Model No.:                      Serial No.:                      Calib. Due Date:		
	Perform operability check in accordance with Appendix A		
*	4. Dual Channel Analyzer		
	Model No.:                      Serial No.:                      Calib. Due Date:		
	Perform operability check in accordance with Appendix A		
	5. Continuous Air Monitor		
	Model No.:                      Serial No.:                      Calib. Due Date:		
	Perform operability check in accordance with Appendix A		
	<b>DOSIMETRY</b>	<b>Minimum Quantity</b>	<b>As** Found</b>
*	1. TLD, Whole Body                      Semi-annual:	53	
*	2. TLD, Finger Ring                      Semi-annual:	16	
*	3. TLD, Multibadge                      Semi-annual:	50	
*	4. DRD, 0-500 mR                      Calib. Due Date:	50	
*	5. DRD, 0-5R                      Calib. Due Date:	10	
*	6. DRD, 0-100R                      Calib. Due Date:	5	
***	7. Electronic Dosimeter                      Calib. Due Date:	10	

/R39  
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/R39

\* Major Equipment  
\*\* Codes: P=Pass, F=Fail, R=See Remarks  
\*\*\* Alarm Setpoint: Dose - 4.5R; Dose Rate 10R/hr.

ST. LUCIE PLANT  
HEALTH PHYSICS OPERATING PROCEDURE NO. HP-90, REVISION 39  
EMERGENCY EQUIPMENT

**ATTACHMENT 1**  
**UNIT 1 CONTROL ROOM/TECHNICAL SUPPORT CENTER EMERGENCY KIT**  
(Sheet 2 of 4)

NOTE

Inspect all batteries during first and third quarter inventories.

/R39

DRESS-OUT SUPPLIES	Minimum Quantity	As** Found
1. Coveralls	20	
2. Cloth Hood	20	
3. Cotton Liners (pr.)	20	
4. Rubber Gloves (pr.)	20	
5. Surgical Gloves (pr.)	20	
6. Rubber Shoe Covers (pr.)	20	
7. Plastic Booties (pr.)	20	
8. T-Cuts (pr.)	20	
9. Whirl-Pack	50	
10. Tape (2" roll)	5	

\* Major Equipment

\*\* Codes: P=Pass, F=Fail, R=See Remarks

ST. LUCIE PLANT  
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EMERGENCY EQUIPMENT

**ATTACHMENT 1**  
**UNIT 1 CONTROL ROOM/TECHNICAL SUPPORT CENTER EMERGENCY KIT**  
(Sheet 3 of 4)

<p><b>NOTE</b> Inspect all batteries during first and third quarter inventories.</p>
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/R39

	OTHER EQUIPMENT	Minimum Quantity	As** Found
*	1. SCBA	5	
*	2. Air Sampler Model No.:      Serial No.:      Calib. Due Date:	1	
	3. Silver Zeolite Cartridges      Exp. Date:	5	
	4. Particulate Filters	6	
	5. Whirl-Packs (labeled Air Sample Data)	6	
	6. Full-Face Respirator (perform visual inspection, update card)	8	
	7. Charcoal Canister      Exp. Date:	16	
	8. Dosimeter Charger	2	
	9. Contamination Smears and Envelopes/Folders	500	
	10. Radiation Barrier Tape/Rope/Ribbon	N/A	
	11. Radiation Sign and Assorted Inserts	5	
	12. Step-off Pads	10	
	13. Poly Bags (yellow)	10	
	14. Extension Cord (HD)	3	
	15. Extension Cord Adapter - White	3	
	16. Extension Cord Adapter - Red	3	
	17. Plastic Rainsuits	20	
	18. Batteries - complete set of replacement batteries, both type and number, available for all equipment requiring batteries; check shelf life.	N/A	
	19. Telephone Headset	1	

\* Major Equipment

\*\* Codes: P=Pass, F=Fail, R=See Remarks

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**ATTACHMENT 1**  
**UNIT 1 CONTROL ROOM/TECHNICAL SUPPORT CENTER EMERGENCY KIT**  
(Sheet 4 of 4)

NOTE  
Inspect all batteries during first and third quarter inventories.

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DOCUMENTS, PROCEDURES, LOGS	Avail.	Unavail.
1. PSL Emergency Plan (check for current revision)		
2. EIPs (full set) (check for current revisions)		
3. Emergency Response Directory (check for current revision)		
4. HP-90 (check for current revision)		
5. HP-200 Series (full set) (check for current revisions)		
6. HP-206: Attachments 1, 2, 3 and Forms HP-206.1 and HP-206.2 (10 copies each) (check for current revision)		
7. COP-06.06 (check for current revision)		
8. COP-06.11, "Establishing Remote Laboratory for Analyses of Accident Samples" (check for current revision)		
9. Radiation Exposure Summary Report		
10. Control Room Rad Survey Maps (10 copies)		
11. Laminated Floor Plan Maps with Index for Rad Survey (full set)		
12. Field Monitoring Maps		

- \* Major Equipment
- \*\* Codes: P=Pass, F=Fail, R=See Remarks

Remarks: \_\_\_\_\_

Inventoried by: \_\_\_\_\_ Reviewed by: \_\_\_\_\_

Date: \_\_\_\_\_ Date: \_\_\_\_\_

ST. LUCIE PLANT  
HEALTH PHYSICS OPERATING PROCEDURE NO. HP-90, REVISION 39  
EMERGENCY EQUIPMENT

**ATTACHMENT 2**  
**UNIT 2 CONTROL ROOM EMERGENCY KIT**  
(Sheet 1 of 4)

NOTE

Inspect all batteries during first and third quarter inventories.

/R39

INSTRUMENTS		Pass	Fail
*	1. Portable Dose Rate Instrument ( $\geq 5$ R/hr)		
	Model No.:                      Serial No.:                      Calib. Due Date:		
	Perform operability check in accordance with Appendix A		
*	2. Portable Count Rate (Frisker) Instrument		
	Model No.:                      Serial No.:                      Calib. Due Date:		
	Perform operability check in accordance with Appendix A		
*	3. Portable Count Rate (Frisker) Instrument		
	Model No.:                      Serial No.:                      Calib. Due Date:		
	Perform operability check in accordance with Appendix A		
*	4. Dual Channel Analyzer		
	Model No.:                      Serial No.:                      Calib. Due Date:		
	Perform operability check in accordance with Appendix A		
DOSIMETRY		Minimum Quantity	As** Found
*	1. TLD, Whole Body                      Semi-annual:	10	
*	2. TLD, Finger Ring                      Semi-annual:	12	
*	3. TLD, Multibadge                      Semi-annual:	50	
*	4. DRD, 0-500 mR                      Calib. Due Date:	10	
*	5. DRD, 0-5R                      Calib. Due Date:	10	
*	6. DRD, 0-100R                      Calib. Due Date:	5	
***	7. Electronic Dosimeter                      Calib. Due Date:	10	

\* Major Equipment

\*\* Codes: P=Pass, F=Fail, R=See Remarks

\*\*\* Alarm Setpoints: Dose - 4.5R; Dose Rate 10R/hr.

ST. LUCIE PLANT  
HEALTH PHYSICS OPERATING PROCEDURE NO. HP-90, REVISION 39  
EMERGENCY EQUIPMENT

**ATTACHMENT 2**  
**UNIT 2 CONTROL ROOM EMERGENCY KIT**

(Sheet 2 of 4)

NOTE

Inspect all batteries during first and third quarter inventories.

/R39

DRESS-OUT SUPPLIES	Minimum Quantity	As** Found
1. Coveralls	10	
2. Cloth Hood	10	
3. Cotton Liners (pr.)	10	
4. Rubber Gloves (pr.)	10	
5. Surgical Gloves (pr.)	10	
6. Rubber Shoe Covers (pr.)	10	
7. Plastic Booties (pr.)	10	
8. T-Cuts (pr.)	10	
9. Whirl-Pack	50	
10. Tape (2" roll)	3	

\* Major Equipment

\*\* Codes: P=Pass, F=Fail, R=See Remarks

ST. LUCIE PLANT  
HEALTH PHYSICS OPERATING PROCEDURE NO. HP-90, REVISION 39  
EMERGENCY EQUIPMENT

**ATTACHMENT 2**  
**UNIT 2 CONTROL ROOM EMERGENCY KIT**  
(Sheet 3 of 4)

NOTE

Inspect all batteries during first and third quarter inventories.

/R39

OTHER EQUIPMENT	Minimum Quantity	As** Found
1. SCBA	5	
2. Air Sampler Model No.:      Serial No.:      Calib. Due Date:	1	
3. Silver Zeolite Cartridges      Exp. Date:	5	
4. Particulate Filters	6	
5. Whirl-Packs (labeled Air Sample Data)	6	
6. Full-Face Respirator (perform visual inspection, update card)	8	
7. Charcoal Canister      Exp. Date:	16	
8. Dosimeter Charger	1	
9. Contamination Smears and Envelopes/Folders	500	
10. Radiation Barrier Tape/Rope/Ribbon	N/A	
11. Radiation Sign and Assorted Inserts	5	
12. Step-off Pads	10	
13. Poly Bags (yellow)	10	
14. Extension Cord (HD)	N/A	
15. Extension Cord Adapter - White	3	
16. Extension Cord Adapter - Red	3	
17. Plastic Rainsuits	10	
18. Batteries - complete set of replacement batteries, both type and number, available for all equipment requiring batteries; check shelf life	N/A	

\* Major Equipment

\*\* Codes: P=Pass, F=Fail, R=See Remarks

ST. LUCIE PLANT  
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EMERGENCY EQUIPMENT

**ATTACHMENT 2**  
**UNIT 2 CONTROL ROOM EMERGENCY KIT**  
(Sheet 4 of 4)

NOTE  
Inspect all batteries during first and third quarter inventories.

/R39

DOCUMENTS, PROCEDURES, LOGS	Avail.	Unavail.
1. PSL Emergency Plan (check for current revision)		
2. EIPs (full set) (check for current revisions)		
3. Emergency Response Directory (check for current revision)		
4. HP-200 Series (full set) (check for current revisions)		
5. HP-206: Attachments 1, 2, 3 and Forms HP-206.1 and HP-206.2 (10 copies each) (check for current revision)		
6. Radiation Exposure Summary Report		
7. Control Room Rad Survey Maps (10 copies)		

- \* Major Equipment
- \*\* Codes: P=Pass, F=Fail, R=See Remarks

Remarks: \_\_\_\_\_

Inventoried by: \_\_\_\_\_ Reviewed by: \_\_\_\_\_

Date: \_\_\_\_\_ Date: \_\_\_\_\_

ST. LUCIE PLANT  
HEALTH PHYSICS OPERATING PROCEDURE NO. HP-90, REVISION 39  
EMERGENCY EQUIPMENT

**ATTACHMENT 3**  
**OPERATIONAL SUPPORT CENTER EMERGENCY KIT**  
(Sheet 1 of 4)

**NOTE**  
Inspect all batteries during first and third quarter inventories.

/R39

	Pass	Fail
<b>INSTRUMENTS</b>		
* 1. Portable Dose Rate Instrument (≥5 R/hr)		
Model No.:                      Serial No.:                      Calib. Due Date:		
Perform operability check in accordance with Appendix A		
* 2. Portable Dose Rate Instrument (≥5 R/hr)		
Model No.:                      Serial No.:                      Calib. Due Date:		
Perform operability check in accordance with Appendix A		
* 3. Portable Dose Rate Instrument (≥5 R/hr)		
Model No.:                      Serial No.:                      Calib. Due Date:		
Perform operability check in accordance with Appendix A		
* 4. Portable Count Rate (Frisker) Instrument		
Model No.:                      Serial No.:                      Calib. Due Date:		
Perform operability check in accordance with Appendix A		
* 5. Portable Count Rate (Frisker) Instrument		
Model No.:                      Serial No.:                      Calib. Due Date:		
Perform operability check in accordance with Appendix A		
* 6. Portable Count Rate (Frisker) Instrument		
Model No.:                      Serial No.:                      Calib. Due Date:		
Perform operability check in accordance with Appendix A		
* 7. Portable Count Rate (Frisker) Instrument		
Model No.:                      Serial No.:                      Calib. Due Date:		
Perform operability check in accordance with Appendix A		
* 8. Dual Channel Analyzer		
Model No.:                      Serial No.:                      Calib. Due Date:		
Perform operability check in accordance with Appendix A		
* 9. Scaler and Detector		
Model No.:                      Serial No.:                      Calib. Due Date:		
Perform operability check in accordance with Appendix A		

\* Major Equipment  
\*\* Codes: P=Pass, F=Fail, R=See Remarks

ST. LUCIE PLANT  
HEALTH PHYSICS OPERATING PROCEDURE NO. HP-90, REVISION 39  
EMERGENCY EQUIPMENT

**ATTACHMENT 3**  
**OPERATIONAL SUPPORT CENTER EMERGENCY KIT**

(Sheet 2 of 4)

**NOTE**

Inspect all batteries during first and third quarter inventories.

/R39

DOSIMETRY			Minimum Quantity	As** Found
*	1. TLD, Whole Body	Semi-annual:	46	
*	2. TLD, Finger Ring	Semi-annual:	22	
*	3. TLD, Multibadge	Semi-annual:	50	
*	4. DRD, 0-500 mR	Calib. Due Date:	40	
*	5. DRD, 0-5R	Calib. Due Date:	20	
*	6. DRD, 0-100R	Calib. Due Date:	10	
<b>DRESS-OUT SUPPLIES</b>				
	1. Coveralls		50	
	2. Cloth Hood		50	
	3. Cotton Liners (pr.)		50	
	4. Rubber Gloves (pr.)		50	
	5. Surgical Gloves (pr.)		50	
	6. Rubber Shoe Covers (pr.)		50	
	7. Plastic Booties (pr.)		50	
	8. T-Cuts (pr.)		50	
	9. Whirl-Pack		100	
	10. Tape (2" roll)		10	
1/2	11. Shaving Cream (can)		1	
1/2	12. Disposable Razors		6	
<b>OTHER EQUIPMENT</b>				
*	1. SCBA		2	
*	2. Air Sampler Model No.:	Serial No.:	Calib. Due Date:	1
	3. Silver Zeolite Cartridges	Exp. Date:	20	
	4. Particulate Filters		20	
	5. Whirl-Packs (labeled Air Sample Data)		20	
	6. Full-Face Respirator (perform visual inspection, update card)		12	
	7. Charcoal Canister	Exp. Date:	24	
	8. Dosimeter Charger (electric)		1	

\* Major Equipment

\*\* Codes: P=Pass, F=Fail, R=See Remarks

ST. LUCIE PLANT  
HEALTH PHYSICS OPERATING PROCEDURE NO. HP-90, REVISION 39  
EMERGENCY EQUIPMENT

**ATTACHMENT 3**  
**OPERATIONAL SUPPORT CENTER EMERGENCY KIT**  
(Sheet 3 of 4)

NOTE

Inspect all batteries during first and third quarter inventories.

/R39

OTHER EQUIPMENT (continued)	Minimum Quantity	As** Found
9. Dosimeter Charger (battery)	2	
10. Contamination Smears and Envelopes/Folders	1500	
11. Radiation Barrier Tape/Rope/Ribbon	N/A	
12. Radiation Sign and Assorted Inserts	20	
13. Step-off Pads	20	
14. Poly Bags (yellow)	50	
15. Portable Fluorescent Lights	3	
16. Flashlights	24	
17. Rope (manila)	N/A	
18. Insect Repellent (spray can)	10	
19. Decontamination Agent	1	
20. Bull Horn	1	
21. Plastic Rainsuits	50	
22. Clipboards (regular)	5	
23. Lined Tablets	10	
24. Note Pads	10	
25. Felt-Tip Pens (black)	24	
26. Ink Pens (black)	24	
27. Pencils	24	
28. Scissors	3	
29. Calculator	1	
30. Stapler with staples	1	
31. Bolt Cutters	1	
32. Batteries - Complete set of replacement batteries, both type and number, available for all equipment requiring batteries; check shelf life.	N/A	

\* Major Equipment

\*\* Codes: P=Pass, F=Fail, R=See Remarks

ST. LUCIE PLANT  
HEALTH PHYSICS OPERATING PROCEDURE NO. HP-90, REVISION 39  
EMERGENCY EQUIPMENT

**ATTACHMENT 3**  
**OPERATIONAL SUPPORT CENTER EMERGENCY KIT**  
(Sheet 4 of 4)

NOTE

Inspect all batteries during first and third quarter inventories.

/R39

DOCUMENTS, PROCEDURES, LOGS	Avail.	Unavail.
1. EIPs (full set) (check for current revision)		
2. Emergency Response Directory (5 copies) (check for current revision)		
3. HPP-70 (check for current revision)		
4. HP-90 (check for current revision)		
5. HP-200 (full set) (check for current revision)		
6. COP-06.06 (check for current revision)		
7. COP-06.11, "Establishing Remote Laboratory for Analyses of Accident Samples" (check for current revision)		
8. Radiation Exposure Summary Report		
9. HP Blank Survey Forms (Unit 1 and Unit 2)		
10. Field Monitoring Map		
11. Assembly Area Kit		
Emergency Response Directory (1 copy) (check for current revision)		
HP-207 (check for current revision)		
HP-208 (check for current revision)		
12. Decon Log Notebook including:		
Form HP207.1 (25 copies) (check for current revision)		
Form HPP-70.1 (25 copies) (check for current revision)		
<b>COMMUNICATIONS TEST</b>	<b>Pass</b>	<b>Fail</b>
1. Videolink Check		
Perform check in accordance with Appendix B		

\* Major Equipment

\*\* Codes: P=Pass, F=Fail, R=See Remarks

Remarks: \_\_\_\_\_

Inventoried by: \_\_\_\_\_ Reviewed by: \_\_\_\_\_

Date: \_\_\_\_\_ Date: \_\_\_\_\_

ST. LUCIE PLANT  
 HEALTH PHYSICS OPERATING PROCEDURE NO. HP-90, REVISION 39  
EMERGENCY EQUIPMENT

**ATTACHMENT 4**  
**SITE ASSEMBLY STATION EMERGENCY KIT**  
 (Sheet 1 of 3)

NOTE  
 Inspect all batteries during first and third quarter inventories.

/R39

	Pass	Fail
* 1. Portable Count Rate (Frisker) Instrument (Decon)		
Model No.:          Serial No.:          Calib. Due Date:		
Perform operability check in accordance with Appendix A		

\* Major Equipment

\*\* Codes: P=Pass, F=Fail, R=See Remarks

ST. LUCIE PLANT  
HEALTH PHYSICS OPERATING PROCEDURE NO. HP-90, REVISION 39  
EMERGENCY EQUIPMENT

**ATTACHMENT 4**  
**SITE ASSEMBLY STATION EMERGENCY KIT**  
(Sheet 2 of 3)

NOTE

Inspect all batteries during first and third quarter inventories.

/R39

DRESS-OUT SUPPLIES	Minimum Quantity	As** Found
1. Coveralls	10	
2. Cloth Hood	10	
3. Cotton Liners (pr.)	10	
4. Rubber Gloves (pr.)	10	
5. Surgical Gloves (pr.)	10	
6. Rubber Shoe Covers (pr.)	10	
7. Plastic Booties (pr.)	10	
8. T-Cuts (pr.)	10	
9. Whirl-Pack	50	
10. Tape (2" roll)	3	
OTHER EQUIPMENT		
1. Paper PCs	10	
2. Radiation Barrier (Tape/Rope/Ribbon)	N/A	
3. Radiation Sign and Assorted Inserts	3	
4. Step-off Pads	10	
5. Poly Bags (yellow)	50	
6. 5 Gallon Jug of Water	1	
7. Waterless Hand Cleaner (can)	2	
8. Hand Rags	50	
9. Towels	6	
10. Shaving Cream (can)	1	
11. Disposable Razors	6	
12. First Aid Kit	1	

\* Major Equipment

\*\* Codes: P=Pass, F=Fail, R=See Remarks

ST. LUCIE PLANT  
HEALTH PHYSICS OPERATING PROCEDURE NO. HP-90, REVISION 39  
EMERGENCY EQUIPMENT

**ATTACHMENT 4**  
**SITE ASSEMBLY STATION EMERGENCY KIT**  
(Sheet 3 of 3)

**NOTE**  
Inspect all batteries during first and third quarter inventories.

/R39

DOCUMENTS, PROCEDURES, LOGS	Avail.	Unavail.
1. Emergency Response Directory (check for current revision)		
2. HP-200 Series (full set) (check for current revision)		
3. Notebook		
4. Decon Log Clipboard with:		
Form HP 207.1 (25 copies) (check for current revision)		
5. Decon Log Clipboard with:		
Form HPP-70.1 (25 copies) (check for current revision)		
COMMUNICATIONS TEST	Pass	Fail
1. Wall Phone		
Perform communications test in accordance with Appendix B		

- \* Major Equipment
- \*\* Codes: P=Pass, F=Fail, R=See Remarks

Remarks: \_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

Inventoried by: \_\_\_\_\_ Reviewed by: \_\_\_\_\_

Date: \_\_\_\_\_ Date: \_\_\_\_\_

ST. LUCIE PLANT  
HEALTH PHYSICS OPERATING PROCEDURE NO. HP-90, REVISION 39  
EMERGENCY EQUIPMENT

**ATTACHMENT 5**  
**FIELD MONITORING TEAM EMERGENCY KIT**

(Sheet 1 of 2)

**NOTE**

Inspect all batteries during first and third quarter inventories.

/R39

INSTRUMENTS			Pass	Fail
* 1.	Portable Dose Rate Instrument ( $\geq 5R/hr$ )			
	Model No.:	Serial No.:	Calib. Due Date:	
	Perform operability check in accordance with Appendix A			
* 2.	Dual Channel Analyzer			
	Model No.:	Serial No.:	Calib. Due Date:	
	Perform operability check in accordance with Appendix A			
* 3.	Portable Count Rate (Frisker) Instrument (Field Team)			
	Model No.:	Serial No.:	Calib. Due Date:	
	Perform operability check in accordance with Appendix A			
DOSIMETRY			Minimum Quantity	As** Found
* 1.	TLD, Whole Body	Semi-annual:	2	
* 2.	EPD ***		2	
* 3.	DRD, 0-5 R		2	
OTHER EQUIPMENT				
* 1.	Air Sampler (auto battery-powered)		1	
	Model No.:	Serial No.:	Calib. Due Date:	
2.	Silver Zeolite Cartridges	Exp. Date:	6	
3.	Particulate Filters		6	
4.	Whirl-Packs (labeled "Air Sample Data")		6	
5.	Surgical Gloves (pr.)		6	
6.	Portable Radio		1	
7.	Power Cord with Cigarette-Lighter Plug		1	
8.	DC Power Receptacle with Battery Clips		1	
9.	Microphone with Cable		1	
10.	Magnetic-Mount Antenna		1	
11.	Full Face Respirator (perform visual inspection, update card)		2	
12.	Charcoal Canister	Exp. Date:	2	

\* Major Equipment

\*\* Codes: P=Pass, F=Fail, R=See Remarks

\*\*\* Alarm setpoints: Dose - 4.5R, Dose Rate 10R/hr.

ST. LUCIE PLANT  
HEALTH PHYSICS OPERATING PROCEDURE NO. HP-90, REVISION 39  
EMERGENCY EQUIPMENT

**ATTACHMENT 5**  
**FIELD MONITORING TEAM EMERGENCY KIT**  
(Sheet 2 of 2)

NOTE  
Inspect all batteries during first and third quarter inventories.

/R39

OTHER EQUIPMENT (continued)	Minimum Quantity	As** Found
13. Stopwatch	1	
14. Calculator	1	
15. Dosimeter Charger	1	
16. Tweezers	1	
17. Flashlight	1	
18. Batteries - Complete set of replacement batteries, both type and number, available for all equipment requiring batteries; check shelf life.	N/A	
<b>DOCUMENTS, PROCEDURES, LOGS</b>	Avail.	Unavail.
1. Emergency Response Directory (check for current revision)		
2. HP-202 (check for current revision)		
3. (Form) Table 1 of HP-202 (2 copies) (check for current revision)		
4. Form HP-202.1 (6 copies) (check for current revision)		
5. Field Monitoring Log		
6. Field Monitoring Maps		

- \* Major Equipment
- \*\* Codes: P=Pass, F=Fail, R=See Remarks

Remarks: \_\_\_\_\_

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Inventoried by: \_\_\_\_\_ Reviewed by: \_\_\_\_\_

Date: \_\_\_\_\_ Date: \_\_\_\_\_

ST. LUCIE PLANT  
HEALTH PHYSICS OPERATING PROCEDURE NO. HP-90, REVISION 39  
EMERGENCY EQUIPMENT

**ATTACHMENT 6**  
**EMERGENCY OPERATIONS FACILITY EMERGENCY KIT**  
(Sheet 1 of 3)

NOTE

Inspect all batteries during first and third quarter inventories.

/R39

INSTRUMENTS		Pass	Fail
*	1. Portable Dose Rate Instrument ( $\geq 5R/hr$ )		
	Model No.:      Serial No.:      Calib. Due Date:		
	Perform operability check in accordance with Appendix A		
*	2. Portable Count Rate (Frisker) Instrument		
	Model No.:      Serial No.:      Calib. Due Date:		
	Perform operability check in accordance with Appendix A		
*	3. Portable Count Rate (Frisker) Instrument		
	Model No.:      Serial No.:      Calib. Due Date:		
	Perform operability check in accordance with Appendix A		
DOSIMETRY		Minimum Quantity	As** Found
*	1. TLD, Whole Body      Semi-annual:	6	
*	2. DRD, 0-500 mR      Calib. Due Date:	10	
*	3. DRD, 0-5 R      Calib. Due Date:	5	
DRESS-OUT SUPPLIES			
	1. Coveralls	20	
	2. Cloth Hood	20	
	3. Cotton Liners (pr.)	20	
	4. Rubber Gloves (pr.)	20	
	5. Surgical Gloves (pr.)	20	
	6. Rubber Shoe Covers (pr.)	20	
	7. Plastic Booties (pr.)	20	
	8. T-Cuts (pr.)	20	
	9. Whirl-Pack	50	
	10. Tape (2" roll)	5	

\* Major Equipment

\*\* Codes: P=Pass, F=Fail, R=See Remarks

ST. LUCIE PLANT  
HEALTH PHYSICS OPERATING PROCEDURE NO. HP-90, REVISION 39  
EMERGENCY EQUIPMENT

**ATTACHMENT 6**  
**EMERGENCY OPERATIONS FACILITY EMERGENCY KIT**  
(Sheet 2 of 3)

NOTE

Inspect all batteries during first and third quarter inventories.

/R39

OTHER EQUIPMENT	Minimum Quantity	As** Found
1. Full Face Respirator (perform visual inspection, update card)	6	
2. Charcoal Canister Exp. Date:	12	
3. Dosimeter Charger (electric)	1	
4. Dosimeter Charger (battery)	1	
5. Silver Zeolite Cartridges Exp. Date:	50	
6. Contamination Smears and Envelopes/Folders	500	
7. Radiation Barrier (Tape/Rope/Ribbon)	N/A	
8. Radiation Sign and Assorted Inserts	10	
9. Step-off Pads	10	
10. Poly Bags (yellow)	10	
11. Plastic Rainsuits	20	
12. Batteries - Complete set of replacement batteries, both type and number, available for all equipment requiring batteries; check shelf life.	N/A	
DOCUMENTS, PROCEDURES, LOGS	Avail.	Unavail.
1. PSL Emergency Plan (check for current revision)		
2. EIPs (full set) (check for current revision)		
3. Emergency Response Directory (check for current revision)		
4. Florida Power & Light Company St. Lucie Plant Recovery Plan		
5. HP-90 (check for current revision)		
6. HP-200 Series (full set) (check for current revision)		
7. COP-06.06 (check for current revision)		
8. COP-06.11, "Establishing Remote Laboratory for Analyses of Accident Samples" (check for current revision)		
COMMUNICATIONS TEST	Pass	Fail
1. NRC Emergency Notification System (ENS)		
Perform communications test in accordance with Appendix B		
2. NRC Health Physics Network (HPN)		
Perform communications test in accordance with Appendix B		
3. NRC Reactor Safety Counterpart Link (RSCL)		
Perform communications test in accordance with Appendix B.		

\* Major Equipment

\*\* Codes: P=Pass, F=Fail, R=See Remarks

ST. LUCIE PLANT  
HEALTH PHYSICS OPERATING PROCEDURE NO. HP-90, REVISION 39  
EMERGENCY EQUIPMENT

**ATTACHMENT 6**  
**EMERGENCY OPERATIONS FACILITY EMERGENCY KIT**  
(Sheet 3 of 3)

**NOTE**  
Inspect all batteries during first and third quarter inventories.

/R39

COMMUNICATIONS TEST - EMERGENCY OPERATIONS FACILITY (EOF) (continued)	Pass	Fail
4. NRC Protective Measures Counterpart Link (PMCL) Perform communications test in accordance with Appendix B.		
5. NRC Management Counterpart Link (MCL) Perform communications test in accordance with Appendix B.		
6. NRC Local Area Network (LAN) Perform communications test in accordance with Appendix B		
7. Local Government Radio (LGR) Channel 2 (39.18 MHz) Perform communications test in accordance with Appendix B; <input type="checkbox"/> Unit 1, <input type="checkbox"/> Unit 2, <input type="checkbox"/> TSC (All 3 ok to pass)		
8. Local Government Radio (LGR) Channel 1 (39.10 MHz) Perform communications test in accordance with Appendix B; <input type="checkbox"/> Unit 1, <input type="checkbox"/> Unit 2, <input type="checkbox"/> TSC (All 3 ok to pass)		
9. Spectra Radio, HP Offsite Channel Perform communications test in accordance with Appendix B		
10. State Warning Point (SWP) Hot Ring Down Phone (HRD) Perform communications test in accordance with Appendix B		
11. Videolink check Perform check in accordance with Appendix B		
12. Test fax machines in rooms 102, 108 and 130 (send fax to EP at ext. 7514). Send using form similar to Appendix C.		
13. Test copy machines in rooms 102 and 131. Run copy using form similar to Appendix D.		

- \* Major Equipment
- \*\* Codes: P=Pass, F=Fail, R=See Remarks

Remarks: \_\_\_\_\_

Inventoried by: \_\_\_\_\_ Reviewed by: \_\_\_\_\_

Date: \_\_\_\_\_ Date: \_\_\_\_\_

ST. LUCIE PLANT  
HEALTH PHYSICS OPERATING PROCEDURE NO. HP-90, REVISION 39  
EMERGENCY EQUIPMENT

**ATTACHMENT 7**  
**HOSPITAL EMERGENCY KIT**  
(Sheet 1 of 2)

NOTE

Inspect all batteries during first and third quarter inventories.

/R39

INSTRUMENTS	Pass	Fail
* 1. Portable Dose Rate Instrument ( $\geq 5R/hr$ )		
Model No.:                  Serial No.:                  Calib. Due Date:		
Perform operability check in accordance with Appendix A		
* 2. Portable Count Rate (Frisker) Instrument		
Model No.:                  Serial No.:                  Calib. Due Date:		
Perform operability check in accordance with Appendix A		
* 3. Portable Count Rate (Frisker) Instrument		
Model No.:                  Serial No.:                  Calib. Due Date:		
Perform operability check in accordance with Appendix A		
DOSIMETRY	Minimum Quantity	As** Found
* 1. TLD, Whole Body    Semi-annual:	12	
2. DRD, 0-20 R                                  Calib. Due Date:	5	
* 3. DRD, 0-500 mR                                  Calib. Due Date:	12	
OTHER EQUIPMENT		
1. Dosimeter Charger	1	
2. Contamination Smears and Envelopes/Folders	500	
3. Radiation Barrier Tape/Rope/Ribbon	N/A	
4. Radiation Sign and Assorted Inserts	5	
5. Step-off Pads	10	
6. Poly Bags (yellow)	20	
7. Herculite (may be precut)	N/A	
8. Decontamination Table and Accessories	1	
9. Tape (2" roll)	5	
10. Radioactive Material Tags	25	

\* Major Equipment

\*\* Codes: P=Pass, F=Fail, R=See Remarks

ST. LUCIE PLANT  
HEALTH PHYSICS OPERATING PROCEDURE NO. HP-90, REVISION 39  
EMERGENCY EQUIPMENT

**ATTACHMENT 7**  
**HOSPITAL EMERGENCY KIT**  
(Sheet 2 of 2)

NOTE  
Inspect all batteries during first and third quarter inventories.

/R39

OTHER EQUIPMENT (continued)	Minimum Quantity	As** Found
11. Lined Tablets	2	
12. Note Pads	2	
13. Ink Pens (black)	12	
14. Batteries - Complete set of replacement batteries, both type and number, available for all equipment requiring batteries; check shelf life.	N/A	
<b>DOCUMENTS, PROCEDURES, LOGS</b>	<b>Avail.</b>	<b>Unavail.</b>
1. Emergency Response Directory (check for current revision)		
2. HPP-70 (check for current revision)		
3. HPP-101 (check for current revision)		
4. HP-207 (check for current revision)		
5. HP-208 (check for current revision)		
6. Form HPP-101.1 (5 copies) (check for current revision)		
7. Form HPP-70.1 (5 copies) (check for current revision)		

\* Major Equipment

\*\* Codes: P=Pass, F=Fail, R=See Remarks

Remarks: \_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

Inventoried by: \_\_\_\_\_ Reviewed by: \_\_\_\_\_

Date: \_\_\_\_\_ Date: \_\_\_\_\_

ST. LUCIE PLANT  
HEALTH PHYSICS OPERATING PROCEDURE NO. HP-90, REVISION 39  
EMERGENCY EQUIPMENT

**APPENDIX A**  
**OPERABILITY INSTRUCTIONS**  
(Sheet 1 of 5)

1. Portable Dose Rate Instrument - Check calibration sticker, battery test and response to supplied check source.

NOTE  
Kit check sources should not be stored near the kit TLDs.

2. Portable Count Rate Instrument - Check calibration sticker, battery test (unplug line cord) and response to supplied check source.
3. Battery and Operational Checks of the Ludlum Model 2218.

NOTE

- Should it be necessary to use Channel 2, items contained within parentheses are settings to be used for Channel 2.
- A layout of the Ludlum Model 2218 is provided in Figure 1 to this Appendix.

Verify that the RECYCLE knob is OFF. The knob is labeled and located on the rear panel of the instrument.

- 3.1 Check the battery as follows:

NOTE

If an instrument fails the battery check, it can be used only if it is connected to AC power and therefore should be replaced with an instrument capable of passing this operability check.

1. Turn the POWER knob to "BAT".
2. Unplug the AC line cord.
3. Depress the BAT testbutton.

ST. LUCIE PLANT  
HEALTH PHYSICS OPERATING PROCEDURE NO. HP-90, REVISION 39  
EMERGENCY EQUIPMENT

**APPENDIX A**  
**OPERABILITY INSTRUCTIONS**  
(Sheet 2 of 5)

3. (continued)

3.1 (continued)

4. Observe the condition below the RATE SCALE.
5. If battery condition is not within the acceptable BAT TEST range, plug in the AC line cord and turn the POWER knob to CHARGE. Attach a label to the instrument stating "Instrument is charging, started charge at \_\_\_\_\_ AM/PM on \_\_\_\_\_ 19\_\_\_\_".
6. If the battery condition is acceptable, then continue with the steps below.

3.2 Set the STABILIZER toggle switch to OFF.

**NOTE**

Steps 3.3 through 3.15.4 are initially performed on Channel 1.

- 3.3 Ch1 (Ch2), set the ADD-OFF-SUBTRACT knob to ADD.
- 3.4 Ch2 (Ch1), set the ADD-OFF-SUBTRACT knob to OFF
- 3.5 Ch1 and Ch2, set the ON-BYPASS toggle switch to BYPASS.
- 3.6 Ch1 (Ch2), set the WINDOW and the THRESHOLD dials IAW (in accordance with) settings on the side of the 2218 cabinet.
- 3.7 Set the unused Channel's WINDOW and THRESHOLD dials to 10.0.
- 3.8 Ch1 (Ch2), set the IN-OUT toggle switch to IN.
- 3.9 Ch2 (Ch1), set the IN-OUT toggle switch to OUT.
- 3.10 Set the MINUTES knob to X1.
- 3.11 Set the LIVE-CLOCK toggle switch to LIVE.

ST. LUCIE PLANT  
HEALTH PHYSICS OPERATING PROCEDURE NO. HP-90, REVISION 39  
EMERGENCY EQUIPMENT

**APPENDIX A**  
**OPERABILITY INSTRUCTIONS**

(Sheet 3 of 5)

3. (continued)

3.12 Set the F-S (Fast-Slow) toggle switch to S.

3.13 Set the Ch1-Ch2-Scaler knob to SCALER.

3.14 Set the MINUTES thumbwheel to 01.

3.15 Perform a source check as follows:

1. Place the Ba-133 check source in the shield under the detector.
2. Depress the COUNT-RESET button to start counting.
3. When counting stops, compare the displayed counts with the acceptance range that is located on the side of the instrument.
4. If the displayed counts are within the acceptance range then go to step 3.17. If the displayed counts are not within the acceptance range then go to step 3.16.

3.16 High voltage (HV) adjustments are performed as follows:

1. Set the MINUTES knob to EXT.
2. Place the Ba-133 check source in the shield under the detector.
3. Depress the COUNT-RESET button to start counting.
4. Observe the COUNTS/MINUTE (Count Rate Meter) scale while making small adjustments in voltage to obtain the **maximum** count rate achievable.
5. Increase or decrease the voltage with the HV (High Voltage) dial.
6. Set the MINUTES knob to X1.
7. Depress the COUNT-RESET button to start counting.

ST. LUCIE PLANT  
HEALTH PHYSICS OPERATING PROCEDURE NO. HP-90, REVISION 39  
EMERGENCY EQUIPMENT

**APPENDIX A**  
**OPERABILITY INSTRUCTIONS**  
(Sheet 4 of 5)

3. (continued)

3.16 (continued)

8. When counting stops, compare the displayed counts with the acceptance range that is located on the side of the instrument.
9. If the displayed counts are within the acceptance range then go to step 3.17. If the displayed counts are not within the acceptance range then repeat steps 3.3 through 3.15.4 using channel 2.

3.17 If the instrument successfully completed the operational response check, record the results on the appropriate Attachment.

3.18 If the instrument did not successfully complete the operational check, using channel 2:

1. Tag the instrument OUT OF SERVICE, give the reason.
2. Record the results in the appropriate Attachment.
3. Give the reason for failure in the Remarks section.

3.19 If the instrument successfully completed the operational response check using channel 2, record the results on the appropriate Attachment and label the instrument "use channel 2".

3.20 Turn the power knob to CHARGE.

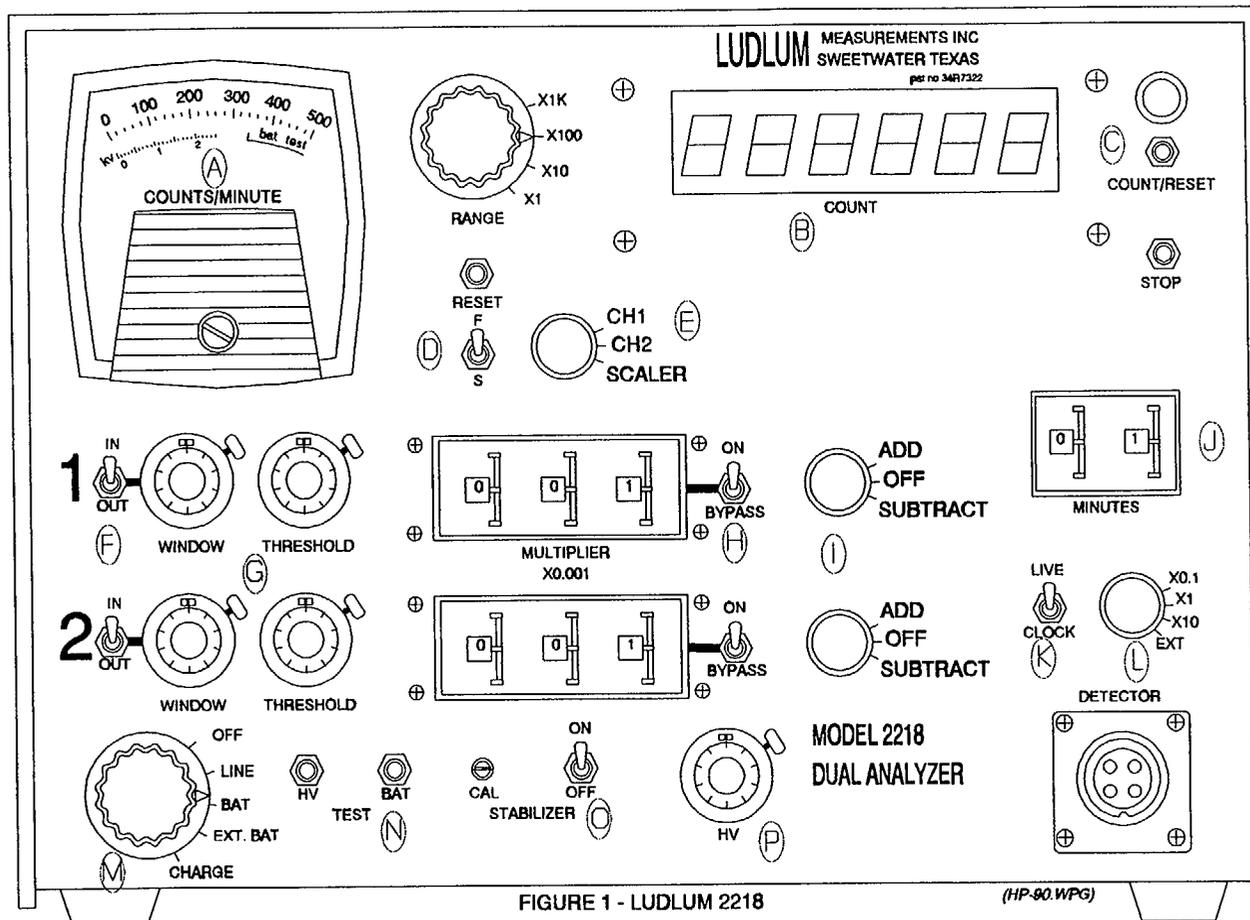
4. Scaler and Detector - check the calibration sticker and response to supplied check source. This is a response check only; use the supplied kit check source used for dose rate instruments.

5. Portable Continuous Air Monitor - Monthly Check. /R39

1. Verify calibration sticker. /R39

2. Perform a functional check of the portable continuous air monitor as per the instructions in procedure HP13F, Calibration, Operation and Operational Check of the Eberline Models AMS-2 and AMS-3 Air Monitoring Systems. /R39

APPENDIX A  
OPERABILITY INSTRUCTIONS  
(Sheet 5 of 5)



Battery Check

M - set to "BAT"  
N - depress test button to check battery condition  
A - Indicates battery condition on "BAT TEST" scale

HV Adjustment

L - set to "EXT"  
C - depress button to start count  
P - adjust voltage  
A - observe maximum count rate

Count Verification

L - set to "X1"  
C - depress button to start count  
B - compare counts with acceptance range for the instrument

Operational Check (Ch1)

O - toggle to "OFF"  
I - Ch1 to "ADD;" Ch2 to "OFF"  
H - toggle to "BYPASS" for Ch1 and Ch2  
G - Ch1 set WINDOW and THRESHOLD in accordance with settings on side of instrument; Ch2 set WINDOW and THRESHOLD to "10.0"  
F - toggle to "IN" for Ch1 and "OUT" for Ch2  
L - set to "X1"  
K - toggle to "LIVE"  
D - toggle to "S"  
E - set to "SCALER"  
J - set to "01"  
C - depress button to start count

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EMERGENCY EQUIPMENT

**APPENDIX B**  
**INSTRUCTIONS FOR TESTING EMERGENCY COMMUNICATIONS EQUIPMENT**  
(Sheet 1 of 15)

- I. Control Rooms
  - A. Unit 1 Control Room emergency communications equipment is tested in accordance with plant Operating Procedure 1-0010125, "Schedule of Periodic Tests, Checks and Calibrations."
  - B. Unit 2 Control Room emergency communications equipment is tested in accordance with plant Operating Procedure 2-0010125, "Schedule of Periodic Tests, Checks and Calibrations."
- II. Technical Support Center (TSC)
  - A. Technical Support Center emergency communications equipment is tested in accordance with EPIP-13, "Maintaining Emergency Preparedness - Emergency Exercises, Drills, Tests and Evaluations".
- III. Operational Support Center (OSC)
  - A. "Videolink" - the "Videolink" is a closed circuit audio/visual communications link originating in the TSC with feeds to the OSC and the Emergency Operations Facility.
    1. Instructions for Testing
      - a. Contact someone to go to the TSC to assist with the test of the "Videolink", if not previously arranged.
      - b. Turn on the television sets in both Rooms 2200 and 2300.
      - c. Set the channel selector to channel 9 and adjust volume.
      - d. Request the person in the TSC to provide a test broadcast.
      - e. Operability is verified if both the video picture and audio output are received on the television sets in both rooms. The picture must be clear and the audio free from static.

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(Sheet 2 of 15)

III. (continued)

A. (continued)

1. (continued)

- f. Record operability status on the inventory form (Attachment 3).
- g. If the "Videolink" is inoperable (one or both television sets), notify Emergency Planning.
- h. Following completion of the tests, turn off the television sets in rooms 2200 and 2300.

IV. Emergency Operations Facility (EOF)

Testing the NRC Emergency Telecommunications System (ETS).

A. Emergency Notification System (ENS)

- 1. Phone number: (700) 821-0005
- 2. 3 extensions
  - a. Room 101, NRC Table
  - b. Room 101, Recovery Manager Table
  - c. Room 114

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**APPENDIX B**  
**INSTRUCTIONS FOR TESTING EMERGENCY COMMUNICATIONS EQUIPMENT**  
(Sheet 3 of 15)

IV. (continued)

A. (continued)

3. Test

- a. Check all three phones for dial tone by lifting the handset of the telephone and listening for a dial tone.
- b. Using one of the phone extensions, call the NRC Operation Center (NRCOC) by lifting the handset and dialing the first number listed on the sticker located on the telephone cradle. It is necessary to dial a "1" first then the area code followed by the number. If the main number is busy, dial one of the alternate numbers.
- c. After the NRCOC Duty Officer answers, inform him as follows: "This is the St. Lucie Emergency Operations Facility. I am conducting a check of the ENS, how do you receive me?" Ask the NRCOC Duty Officer if he wishes to call back, if so give him the telephone number and await the call.
- d. The test is passed if (1) all phones have dial tone, (2) the link is operable, and (3) the NRCOC is successfully contacted.
- e. Record the test result on the inventory form (Attachment 6).
- f. If the test is a failure, see information under Trouble Notification.

B. Health Physics Network (HPN)

1. Phone number: (700) 821-0003
2. 3 extensions
  - a. Room 101, NRC Table
  - b. Room 103 (2)
3. Go to step F, Test Procedure

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**APPENDIX B**  
**INSTRUCTIONS FOR TESTING EMERGENCY COMMUNICATIONS EQUIPMENT**

(Sheet 4 of 15)

IV. (continued)

C. Reactor Safety Counterpart Link (RSCL)

1. Phone number: (700) 821-0008
2. 2 extensions
  - a. Room 101, NRC Table
  - b. Room 114
3. Go to step F, Test Procedure

D. Protective Measures Counterpart Link (PMCL)

1. Phone number: (700) 821-0006
2. 2 extensions
  - a. Room 101, NRC Table
  - b. Room 114
3. Go to step F, Test Procedure.

E. Management Counterpart Link (MCL)

1. Phone number: (700) 821-0004
2. 2 extensions
  - a. Room 101, NRC Table
  - b. Room 114
3. Go to step F, Test Procedure

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**INSTRUCTIONS FOR TESTING EMERGENCY COMMUNICATIONS EQUIPMENT**

(Sheet 5 of 15)

IV. (continued)

F. Test Procedure for HPN, RSCL, PMCL and MCL.

1. For each communication link, do the following:

- a. Check all extensions for dial tone by lifting the handset of the telephone and listening for a dial tone.
- b. Check link operability by using the phones on the NRC Table in Room 101. Each link must be able to call-out and receive a call to pass. Use the following call scheme:

HPN: Dial 700-821-0008

RSCL: Dial 700-821-0006

PMCL: Dial 700-821-0004

MCL: Dial 700-821-0003

- c. The test is passed if (1) all phones have dial tone and (2) the link is operable.
- d. Record the test result on the inventory form (Attachment 6) for each communication link.
- e. If the test is a failure, see information under Trouble Notification.

G. Local Area Network (LAN)

1. Phone number: (700) 821-0007.
2. 1 extension
  - a. Room 114
3. Test
  - a. Check the telephone line by plugging in a telephone, lifting the handset and listening for a dial tone.

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(Sheet 6 of 15)

## IV. (continued)

## H. Trouble Notification

1. If any aspect of the Emergency Telecommunications System is inoperable notify the NRC Operations Center in Rockville, Maryland by using a commercial telephone and dialing one of the following numbers:

1-(301) 951-0550

1-(301) 816-5100

2. Provide the following information (per IN 86-97):

- |  |  |      |
|--|--|------|
| a. Name of contact -   | Donna Calabrese or Rick Walker                                   |      |
| b. Phone number of contact -   | Donna Calabrese<br>(772) 467-7185                                | /R39 |
|  | Rick Walker<br>(772) 467-7170                                    | /R39 |
| c. Location of contact -   | FPL/PSL<br>6501 S. Ocean Drive<br>Jensen Beach, Florida<br>34957 | /R39 |
| d. Any other information that would expedite repair, if known or as requested. |  |      |

3. Notify Donna Calabrese or Rick Walker.

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(Sheet 7 of 15)

IV. (continued)

- I. The Local Government Radio (LGR) has two low band radio frequencies utilized by St. Lucie County, Martin County, the St. Lucie Plant Control Rooms, the Technical Support Center and the Emergency Operations Facility. This is a backup to the State Hot Ring Down Phone Circuit.

There are two Motorola Command Series radios, one set to the primary channel, F2 (39.180 MHz, State channel 1) and the other set to the secondary channel, F1 (39.100 MHz, State channel 2). The test includes testing both channels with the Unit 1 Control Room, the Unit 2 Control Room, and the Technical Support Center.

**CAUTION**

To safeguard against potential damage resulting from lightning striking the EOF, power cords for the LGR and HP Off-Site Channel Radios are left disconnected when not in use. The phone cables to each radio are NOT to be disconnected.

1. Powering Up the Radio:
  - a. Plug the power cord from each radio unit into the wall outlets behind the table. The F2 light will illuminate.
  - b. Ensure the phone cable from each radio is plugged into one of the 3 phone jacks on the wall behind the table. All the jacks are wired for all 3 radios (LGR F1, LGR F2, and Department of Health (DOH)). (The DOH radio is NOT included in this test).

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(Sheet 8 of 15)

IV. (continued)

I. (continued)

**NOTE**

Prior to commencing the testing with the Control Rooms, contact someone at the plant to go to the TSC to assist with testing of the TSC radios.

2. Instructions for Testing:

Control Rooms

- a. Call one of the Plant St. Lucie Control Rooms and ask them to standby for testing the LGR.
- b. Begin by testing the radio which is set to channel F2, the channel normally monitored by the Control Rooms.
- c. The radio may be operated either by depressing the "transmit" button on the console or by removing the handset and depressing the "push-to-talk" bar in the handset. The "xmit" light is lit during transmission. Transmit the following: "St. Lucie Unit 1 or 2 (whichever you arranged to test with), this is St. Lucie EOF, come in please, over." Following acknowledgement from the Control Room, continue with: "St. Lucie Plant, this is the St. Lucie EOF conducting a communications test, how do you read, over?" If the Control Room confirms clear transmission and you can confirm clear reception of the response, then have the radio switched to channel F1, following termination of the message, and standby for a test. End the transmission with: "This is St. Lucie EOF, out." If transmission is unsuccessful, call the Control Room and have the radio switched to channel F1. Proceed to the next step.

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IV. (continued)

I. (continued)

2. (continued)

- d. Now test the radio which is set to channel F1. Transmit the following: "St. Lucie Plant, this is St. Lucie EOF, come in please, over." Following acknowledgement from the Control Room, continue with: "St. Lucie Plant, this is the St. Lucie EOF conducting a communications test, how do you read, over?" If the Control Room confirms a clear transmission and you can confirm clear reception of the response, then end the transmission with: "This concludes this communications test, reset the radio to channel F2, this is St. Lucie EOF, KNGR 874 over and out." If transmission is unsuccessful, call the Control Room and have the radio reset to channel F2. Proceed to the next step.
- e. Record operability status on the inventory form (Attachment 6).
- f. If one or both channels of the system is/are inoperable, then notify Emergency Preparedness.
- g. Repeat the test procedure in Steps c - f above with the other Control Room.

Technical Support Center

- a. Contact someone at the plant to go to the TSC to assist with the radio test, if not previously arranged.
- b. Begin by testing the radio which is set to channel F2, the channel the radio in the TSC is set on.

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(Sheet 10 of 15)

IV. (continued)

I. (continued)

2. (continued)

- c. Transmit the following: "St. Lucie TSC, this is St. Lucie EOF, come in please, over." Following acknowledgement from the TSC, continue with: "St. Lucie TSC, this is the St. Lucie EOF conducting a communications test, how do you read, over?" If the TSC confirms clear transmission and you can confirm clear reception of the response, then have the radio switched to channel F1 (by depressing the "F1/F2" button), following termination of the message, and standby for a test. End the transmission with: "This is St. Lucie EOF, out." If transmission is unsuccessful, call the TSC and have the radio switched to channel F1. Proceed to the next step.
  - d. Now test the radio which is set to channel F1. Transmit the following: "St. Lucie TSC, this is St. Lucie EOF, come in please, over." Following acknowledgement from the TSC, continue with: "St. Lucie TSC, this is St. Lucie EOF conducting a communications test, how do you read, over?" If the TSC confirms a clear transmission and you can confirm clear reception of the response, then end the transmission with: "This concludes this communications test, reset the radio to channel F2, this is St. Lucie EOF KNGR 874 over and out." If transmission is unsuccessful, call the TSC and have the radio reset to channel F2. Proceed to the next step.
  - e. Record operability status on the inventory form (Attachment 6).
  - f. If one or both channels of the system is/are inoperable, then notify Emergency Preparedness.
3. Powering Down the Radio:
- a. Unplug both radios from the wall outlets.

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## IV. (continued)

- J. HP Off-site Channel is a unique 900 MHz channel (TX 939.9375 - RX 900.9375) for communications with the off-site Field Monitoring Teams. The radio is a Motorola Spectra which has been set up so that the HP Off-site Channel is the "home" channel, but it has also been programmed for other channels of the plant 900 MHz trunking system.
1. Powering Up the Radio:
    - a. Plug the power cord into the wall outlet behind the table.
    - b. Press the red button on the speaker box (Astron RS-12S) to the up position, button will illuminate.
    - c. Depress the "pwr" button on the Spectra radio.
  2. Instructions for Testing:
    - a. Contact someone at the plant to go to the TSC to assist with the radio test, if not previously arranged.
    - b. The home channel is "off-site," if this channel is not selected (on the LED), then depress the "sel" button until "off-site" shows in the display.
    - c. Press the transmit side (with the lightning bolt) of the microphone base and announce: "St. Lucie TSC, this is the St. Lucie EOF, come in please, over." Following acknowledgement from the TSC, continue with: "St. Lucie TSC, this is the St. Lucie EOF conducting a communications test, how do you read?" If the TSC confirms clear transmission and you can confirm clear reception of the response, then end the transmission with: "This concludes this communications test, this is St. Lucie EOF, WMIF 540 over and out."
    - d. Record operability status on the inventory form (Attachment 6).
    - e. If the radio is inoperable, then notify Emergency Preparedness.

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**APPENDIX B**  
**INSTRUCTIONS FOR TESTING EMERGENCY COMMUNICATIONS EQUIPMENT**  
(Sheet 12 of 15)

IV. (continued)

J. (continued)

3. Powering Down the Radio:

- a. Depress the "pwr" button on the Spectra radio.
- b. Press red button of the speaker box to the down position (light will extinguish).
- c. Unplug the power cord from the wall outlet.

K. The State Warning Point (SWP) Hot Ring Down (HRD) circuit is a dedicated phone system linking the State agencies, St. Lucie County and Martin County with the Plant Control Rooms, Technical Support Center and the Emergency Operations Facility.

1. Instructions for Testing.

- a. Go to the Division of Emergency Management's office Room 108, in the EOF and locate the phone labeled Hot Ring Down (HRD).
- b. Pick up the handset and dial the State Warning Point (SWP) in Tallahassee. This is done by dialing 100. The State Warning Point Duty Officer will acknowledge by saying, "This is State Warning Point, go ahead." You in turn will announce "This is St. Lucie EOF, I am conducting a communications check, how do you receive me? The State will acknowledge. Request the State Warning Point to call you back on Station number 123.

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(Sheet 13 of 15)

IV. (continued)

K. (continued)

1. (continued)

c. Self test procedure for additional extensions.

(1) Conduct a self test on 2 extensions.

A. Extension 120 in the conference room

B. Extensions 122 and 124 in the bull pen

(2) To perform the self test, adjust the volume control to the mid-range position. Lift the handset and press the push to talk bar while speaking into the handset mouthpiece. You should hear yourself in the handset earpiece (this is called sidetone). Now locate the black button on the rear of the telephone next to the power connector. Activate the test mode by holding this button down while simultaneously depressing the push to talk bar and speaking into the handset mouthpiece. Voice should now be heard in the speaker.

Satisfactory completion of the self test is determined when the presence of sidetone is detected while pressing the push to talk bar and speaking into the handset, and when a loopback of the speaker's voice is heard in the loudspeaker while pressing the test switch located on the rear of the terminal. The self test is a complete audio loopback of the terminal's audio circuits up to, but not including, the line matching transformers. As such, this test is a good method to evaluate instrument performance.

d. Record operability status on the inventory form (Attachment 6).

e. If the system is inoperable, notify Emergency Preparedness.

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(Sheet 14 of 15)

IV. (continued)

L. "Videolink" - the "Videolink" is a closed circuit audio/visual communications link originating in the TSC with feeds to the OSC and the EOF.

1. Instructions for Testing

- a. Contact someone at the plant to go to the TSC to assist with the test of the "Videolink", if not previously arranged.
- b. Obtain key #14 from the keybox in room 107. The key to the keybox is located on the wall next to the box.
- c. Use key #14 to unlock room 132.
- d. Turn on the master video switch located in the rack mount cabinet.
- e. In the "Bullpen", room 101, turn on the two television sets using the remote controls (one for each television set) on the Recovery Manager's table.
- f. Set the channel selector to channel 7 and adjust volume.
- g. Request the person in the TSC to provide a test broadcast.
- h. Operability is verified if both the video picture and the audio output are received on both television sets. The picture must be clear and the audio free from static.
- i. Record operability status on the inventory form (Attachment 6).
- j. If the "Videolink" is inoperable (one or both television sets), notify Emergency Planning.

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IV. (continued)

L. (continued)

1. (continued)

k. Following the completion of the test:

1. Turn off both television sets in room 101.
2. Turn off the master video switch in room 132.
3. Lock room 132.
4. Return key #14 to the keybox.

V. Site Assembly Station

A. Conduct functional check of the Site Assembly Station (SAS) telephone located on the west wall.

1. Place a local call and request a call back to ensure that the phone works properly.
2. Record operability status on the inventory form (Attachment 4).
3. If the phone is inoperable, notify Emergency Planning.

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**APPENDIX C**  
**FAX TEST FOR EOF MACHINES**

TO: EP DEPT

467-7500

THIS IS A TEST FROM: \_\_\_\_\_

DATE: \_\_\_/\_\_\_/\_\_\_

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**APPENDIX D**  
**COPIER TEST FOR EOF MACHINES**

TEST DATE \_\_\_\_/\_\_\_\_/\_\_\_\_

TEST PERFORMED BY \_\_\_\_\_