

SUPPRESSED ACTS DATE 8-15/00 BY ACS



FPL

ST. LUCIE PLANT HEALTH PHYSICS PROCEDURE

SAFETY RELATED

Procedure No.
HP-90

Current Rev. No.
35

Effective Date:
07/06/99

Title:

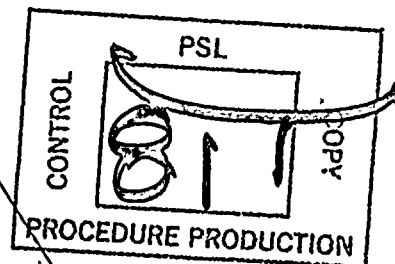
EMERGENCY EQUIPMENT

Responsible Department: **HEALTH PHYSICS**

Revision Summary

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)

50-335
EPIP 'S
11/22/99



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
35		06/30/99	R. G. West Plant General Manager	06/30/99	COMP COMPLETED ITM 35

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ST. LUCIE PLANT
HEALTH PHYSICS OPERATING PROCEDURE NO. HP-90, REVISION 35
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 month and within five (5) working days following each use.

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 collocated in accordance with hospital staff preferences.



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4.0 PRECAUTIONS AND LIMITS: (continued)

- 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.
- 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

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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."
- 6.10 COP-06.11, "Establishing Remote Laboratory for Analyses of Accident Samples." /R35
- 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 ADM-17.01, "Duties and Responsibilities of the Shift Technical Advisor."
- 6.14 NRC Generic Letter 91-14, Emergency Telecommunications.
- 6.15 NRC Administrative Letter 94-04, Change of the NRC Operations Center Commercial Telephone and Facsimile Numbers.
- 6.16 OSHA 1926.404(b)(iii), Assured Equipment Grounding Conductor Program.



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6.0 REFERENCES:

- ¶₁ 6.17 PMAI number PM 97-04-006, EPIP Updates in HP EKits
- ¶₂ 6.18 PMAI number PM 97-04-147, Shaving Supplies in HP EKits
- ¶₃ 6.19 PMAI number PM 97-07-142, First-aid Kit in Site Assembly Station

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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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 (EPlan)
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)



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8.0 INSTRUCTIONS: (continued)

8.1 (continued)

1. (continued)

B. (continued)

9. COP-06.06, "Guidelines for Collecting Post Accident Samples"

10. COP-06.11, "Establishing Remote Laboratory for Analyses of Accident Samples."

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The procedure distribution is listed on the inventory sheet.

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 - Site Assembly Station - 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)

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8.0 INSTRUCTIONS: (continued)

- 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 - the same day
 - B. For Emergency Kits located outside the Owner Controlled Area - within 48 hours.
- 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

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8.0 INSTRUCTIONS: (continued)

8.6 (continued)

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

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).



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8.0 INSTRUCTIONS: (continued)

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 (within one (1) month) or exceeds its expiration date or shelf life.
 2. Every January and July, inspect batteries in all instruments and equipment for signs of deterioration or leaks and replace, as necessary.
- 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.
- 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.

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8.0 INSTRUCTIONS: (continued)

8.13 (continued)

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.

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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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-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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EMERGENCY EQUIPMENT

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

NOTE

Inspect all batteries during January and July inventories.

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			
* 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:	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	

* Major Equipment

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

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

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EMERGENCY EQUIPMENT

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

NOTE

Inspect all batteries during January and July inventories.

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



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EMERGENCY EQUIPMENT

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

NOTE

Inspect all batteries during January and July inventories.

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 - Yellow	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 January and July inventories.

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. Form HP 206.1 (10 copies) (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		

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* Major Equipment

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

Remarks: _____

Inventoried by: _____ Reviewed by: _____

Date: _____ Date: _____

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

NOTE

Inspect all batteries during January and July inventories.

INSTRUMENTS		Pass	Fail
*	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 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.



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EMERGENCY EQUIPMENT

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

NOTE

Inspect all batteries during January and July inventories.

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



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

NOTE

Inspect all batteries during January and July inventories.

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 - Yellow	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

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

NOTE

Inspect all batteries during January and July inventories.

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. Form HP 206.1 (10 copies) (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: _____



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

NOTE
Inspect all batteries during January and July inventories.

INSTRUMENTS	Pass	Fail
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 35
EMERGENCY EQUIPMENT

ATTACHMENT 3
OPERATIONAL SUPPORT CENTER EMERGENCY KIT
(Sheet 2 of 4)

NOTE

Inspect all batteries during January and July inventories.

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	
DRESS-OUT SUPPLIES				
	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	
OTHER EQUIPMENT				
*	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 35
EMERGENCY EQUIPMENT

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

NOTE

Inspect all batteries during January and July inventories.

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 35
EMERGENCY EQUIPMENT

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

NOTE

Inspect all batteries during January and July inventories.

DOCUMENTS, PROCEDURES, LOGS	Avail.	Unavail.
1. EIPs (full set) (check for current revision)		
2. Emergency Response Directory (81 A-D, H - 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 (81J - 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)		
COMMUNICATIONS TEST	Pass	Fail
1. Videolink Check		
Perform check in accordance with Appendix B		

/R35

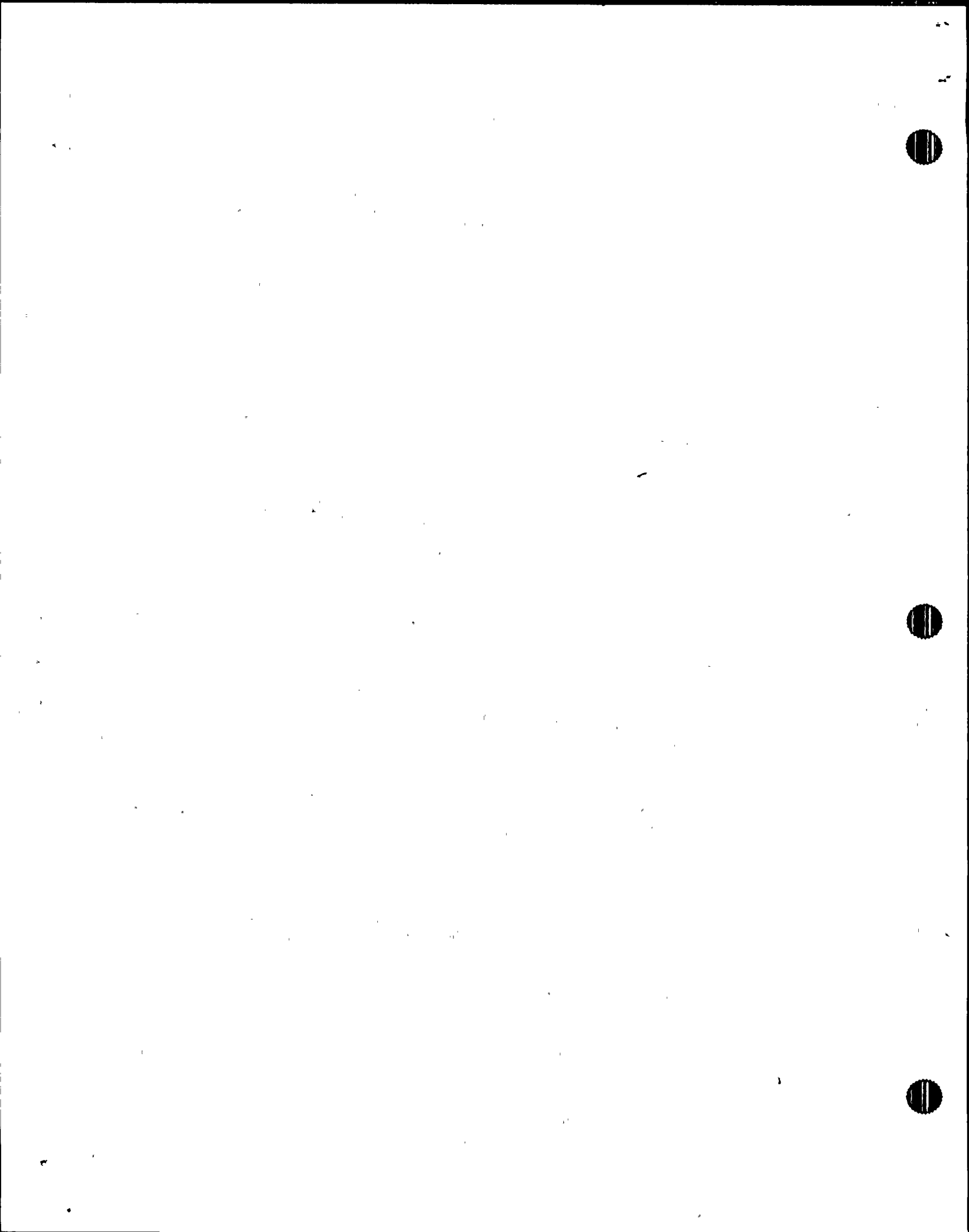
* Major Equipment

** 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 35
EMERGENCY EQUIPMENT

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

NOTE

Inspect all batteries during January and July inventories.

	Pass	Fail
INSTRUMENTS		
* 1. Portable Count Rate (Frisker) Instrument (Decon)		
Model No.: Serial No.: Calib. Due Date:		
Perform operability check in accordance with Appendix A		
* 2. Portable Count Rate (Frisker) Instrument (Field Team)		
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		
* 4. Portable Count Rate (Frisker) Instrument (Field Team)		
Model No.: Serial No.: Calib. Due Date:		
Perform operability check in accordance with Appendix A		
* 5. Portable Count Rate (Frisker) Instrument (Field Team)		
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 35
EMERGENCY EQUIPMENT

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

NOTE

Inspect all batteries during January and July inventories.

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	

* Major Equipment

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



ST. LUCIE PLANT
HEALTH PHYSICS OPERATING PROCEDURE NO. HP-90, REVISION 35
EMERGENCY EQUIPMENT

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

NOTE

Inspect all batteries during January and July inventories.

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)		
6. First Aid Kit		
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 35
EMERGENCY EQUIPMENT

ATTACHMENT 5
SITE ASSEMBLY STATION-FIELD MONITORING TEAM EMERGENCY KIT
(Sheet 2 of 2)

NOTE

Inspect all batteries during January and July inventories.

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	
DOCUMENTS, PROCEDURES, LOGS		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: _____

Inventoried by: _____ Reviewed by: _____

Date: _____ Date: _____





ST. LUCIE PLANT
HEALTH PHYSICS OPERATING PROCEDURE NO. HP-90, REVISION 35
EMERGENCY EQUIPMENT

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

NOTE

Inspect all batteries during January and July inventories.

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.		

/R35

* Major Equipment

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

ST. LUCIE PLANT
HEALTH PHYSICS OPERATING PROCEDURE NO. HP-90, REVISION 35
EMERGENCY EQUIPMENT

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

NOTE

Inspect all batteries during January and July inventories.

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		

* 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 35
EMERGENCY EQUIPMENT

ATTACHMENT 7
HOSPITAL EMERGENCY KIT
(Sheet 1 of 2)

NOTE

Inspect all batteries during January and July inventories.

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 35
EMERGENCY EQUIPMENT

ATTACHMENT 7
HOSPITAL EMERGENCY KIT
(Sheet 2 of 2)

NOTE

Inspect all batteries during January and July inventories.

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	
DOCUMENTS, PROCEDURES, LOGS	Avail.	Unavail.
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 35
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 35
EMERGENCY EQUIPMENT

APPENDIX A
OPERABILITY INSTRUCTIONS
(Sheet 2 of 5)

3. (continued)

3.1 (continued)

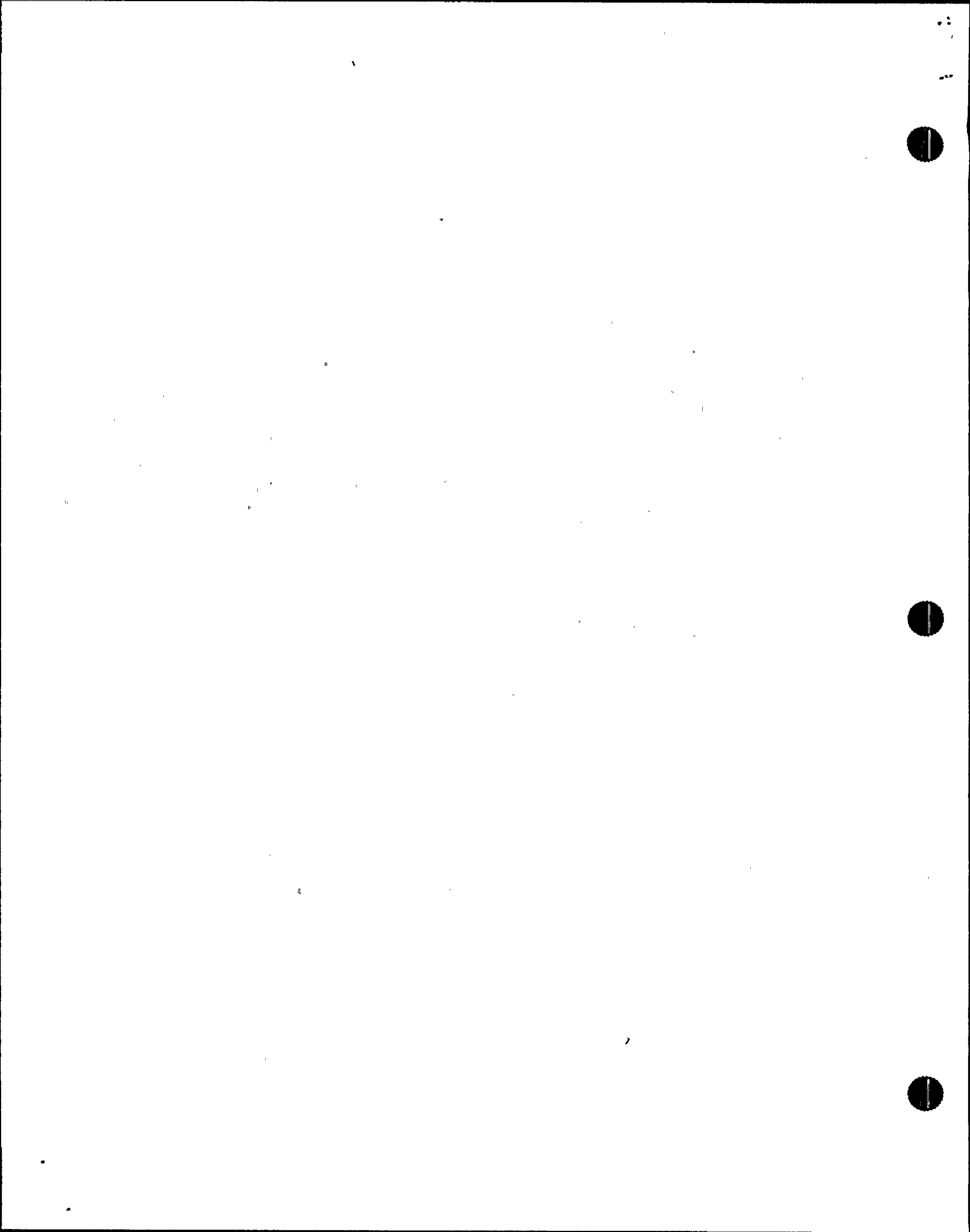
4. Observe the condition below the RATE SCALE.
5. If battery condition is not within the acceptable BAT TEST range, plug in the AC line cord and turn the POWER knob to CHARGE. Attach a label to the instrument stating "Instrument is charging, started charge at _____ AM/PM on _____ 19____".
6. If the battery 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 35
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 35
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.

APPENDIX A
OPERABILITY INSTRUCTIONS
(Sheet 5 of 5)

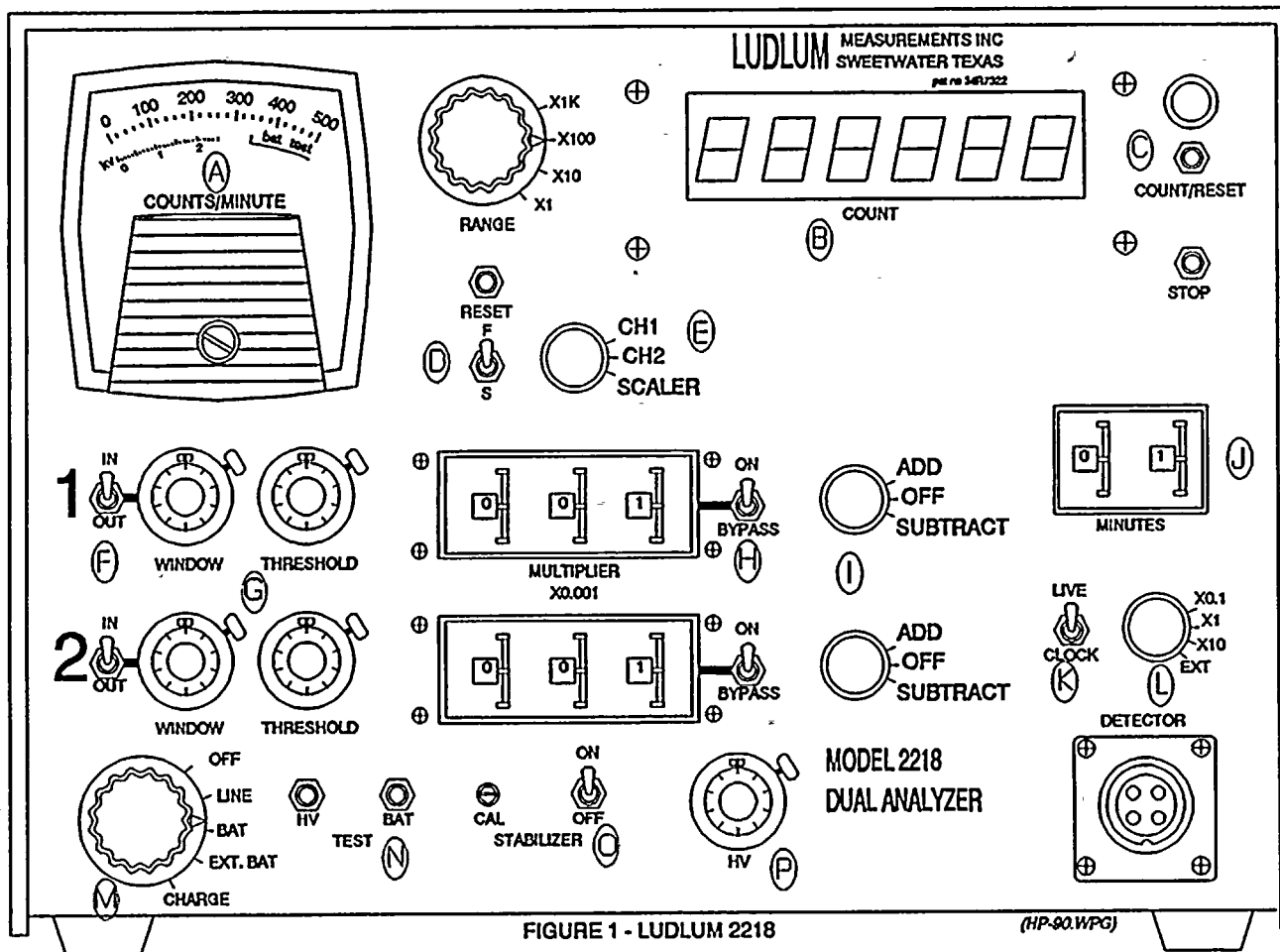


FIGURE 1 - LUDLUM 2218

(HP-90.WPG)

Battery Check	HV Adjustment	Count Verification	Operational Check (Ch1)
M - set to "BAT"	L - set to "EXT"	L - set to "X1"	O - toggle to "OFF"
N - depress test button to check battery condition	C - depress button to start count	C - depress button to start count	I - Ch1 to "ADD"; Ch2 to "OFF"
A - Indicates battery condition on "BAT TEST" scale	P - adjust voltage	B - compare counts with acceptance range for the instrument	H - toggle to "BYPASS" for Ch1 and Ch2
	A - observe maximum count rate		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

ST. LUCIE PLANT
HEALTH PHYSICS OPERATING PROCEDURE NO. HP-90, REVISION 35
EMERGENCY EQUIPMENT

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

I. Control Rooms

NOTE

The NRC Emergency Notification System (ENS) phones are tested in conjunction with the Technical Support Center.

- 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 Plant Administrative Procedure ADM-17.01, "Duties and Responsibilities of the Shift Technical Advisor."
- 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.



ST. LUCIE PLANT
HEALTH PHYSICS OPERATING PROCEDURE NO. HP-90, REVISION 35
EMERGENCY EQUIPMENT

APPENDIX B
INSTRUCTIONS FOR TESTING EMERGENCY COMMUNICATIONS EQUIPMENT
(Sheet 2 of 15)

III. (continued)

A. (continued)

1. (continued)

- 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.
- 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 (FTS 2000).

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



ST. LUCIE PLANT
HEALTH PHYSICS OPERATING PROCEDURE NO. HP-90, REVISION 35
EMERGENCY EQUIPMENT

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. No access code is necessary, just dial all ten digits of the number. If the main number is busy, dial the backup number. Alternate numbers until contact is made.
- 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

ST. LUCIE PLANT
HEALTH PHYSICS OPERATING PROCEDURE NO. HP-90, REVISION 35
EMERGENCY EQUIPMENT

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



ST. LUCIE PLANT
HEALTH PHYSICS OPERATING PROCEDURE NO. HP-90, REVISION 35
EMERGENCY EQUIPMENT

APPENDIX B
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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APPENDIX B
INSTRUCTIONS FOR TESTING EMERGENCY COMMUNICATIONS EQUIPMENT
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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:

(301) 951-0550

(301) 816-5100

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

a. Name of contact -	Donna Calabrese, Rick Walker or Steve Knapp	/R35
----------------------	--	------

b. Phone number of contact -	Donna Calabrese (561) 467-7185	/R35
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Rick Walker
(561) 467-7170

Steve Knapp
(561) 467-7246

c. Location of contact -	FPL/PSL 6501 S. Ocean Jensen Beach, Florida 34957
--------------------------	--

d. Any other information that would expedite repair, if known or as requested.	
--	--

3. Notify Donna Calabrese, Rick Walker or Steve Knapp. /R35

100



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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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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)

1. (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 an Emergency Preparedness Coordinator or the Emergency Preparedness Supervisor.
- 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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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 an Emergency Preparedness Coordinator or the Emergency Preparedness Supervisor.

3. Powering Down the Radio:

- a. Unplug the phone cables from both radios from the wall phone jacks.
- b. 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 an Emergency Preparedness Coordinator or the Emergency Preparedness Supervisor.

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INSTRUCTIONS FOR TESTING EMERGENCY COMMUNICATIONS EQUIPMENT
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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.

1
2
3
4



1
2
3

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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. Extension 122 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 an Emergency Preparedness Coordinator or the Emergency Preparedness Supervisor.

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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.

100-100000



100-100000



FPL

ST. LUCIE PLANT EMERGENCY PLAN IMPLEMENTATION PROCEDURE

SAFETY RELATED

Procedure No.
EPIP-04

Current Rev. No.
4

Effective Date:
07/07/99

Title:

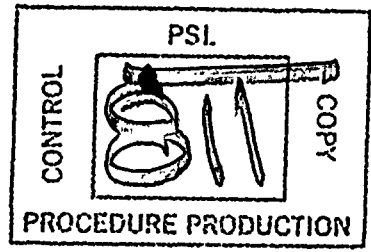
ACTIVATION AND OPERATION OF THE TECHNICAL SUPPORT CENTER

Responsible Department: **EMERGENCY PLANNING**

*Superseded Pages
per Rev to EPIP
dtd. 12/15/99
993610226*

Revision Summary

Revision 4 - Removed reference to the rotating maintenance shift supervisor filling the position of TSC coordinator with OSC. (J. R. Walker, 07/01/99)



Revision	FRG Review Date	Approved By	Approval Date	S__OPS
0	12/15/97	J. Scarola Plant General Manager	12/15/97	DATE DOCT PROCEDURE DOCN EPIP-04 SYS COMP COMPLETED ITM 4
4	07/01/99	R. G. West Plant General Manager	07/01/99	
		N/A Designated Approver		

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1.0 PURPOSE

1.1 Discussion

This procedure provides instructions for the activation and operation of the Technical Support Center (TSC).

1.2 Location and Description

The TSC is on the 62 foot elevation of the Unit 1 Reactor Auxiliary Building (RAB). The TSC is located adjacent to the Unit 1 Control Room and is enclosed in the same habitability envelope. The TSC has emergency communications equipment, precalculated emergency data, pertinent reports, plans, procedures and drawings available for use. Should the Unit 1 Control Room envelope require evacuation, alternate locations for the TSC have been identified as follows:

1. South Service Building
2. Nuclear Training Center

1.3 TSC Functions

1. Mandatory Functions

NOTE

The following tasks become the responsibility of the Emergency Operations Facility (EOF) when manned and fully operational.

- A. Relief to the Control Room for off-site communications to the State and local agencies and the NRC in accordance with EPIP-02, Duties and Responsibilities of the Emergency Coordinator.
- B. Performance of off-site dose calculations in accordance with EPIP-09, Off-site Dose Calculations.



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1.0 PURPOSE (continued)

1.3 TSC Functions (continued)

2. Additional Functions

- A. Management of emergency mitigation activities.
- B. Technical support in determining current and projected plant status and providing in-depth diagnostic and engineering assistance to the Control Room.
- C. Direct the re-entry activities of the Operational Support Center (OSC).
- D. Coordination with the Emergency Operations Facility (EOF) regarding emergency status, corrective and protective actions, off-site interface, radiological conditions, core damage assessment, etc.

1.4 Minimum Staffing

1. The following is the list of the minimum positions needed for TSC operation:
 - Emergency Coordinator
 - TSC Supervisor
 - TSC Chemistry Supervisor
 - TSC Reactor Engineer
 - TSC Elec Rep - PST (Problem Solving Team)
 - TSC Mech Rep - PST
 - (3) TSC Communicator (HRD, ENS, EOF)

§₂ 1.5 Activation

Activation of the TSC is the responsibility of the Emergency Coordinator (EC) and is required for an Alert or higher declared emergency. Arrangements have been made to staff the TSC in a timely manner.

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1.0 PURPOSE (continued)

1.6 Operations

The TSC has sufficient space to accommodate the Florida Power & Light Company (FPL) response organization and designated representatives of the Nuclear Regulatory Commission (NRC) Site Team. Arrangements have been made which allow for continuous operation, as necessary.

2.0 REFERENCES/RECORDS REQUIRED/COMMITMENT DOCUMENTS

NOTE

One or more of the following symbols may be used in this procedure:

§ Indicates a Regulatory commitment made by Technical Specifications, Condition of License, Audit, LER, Bulletin, etc., and shall NOT be revised without Facility Review Group review and Plant General Manager approval.

¶ Indicates a management directive, vendor recommendation, plant practice or other non-regulatory commitment that should NOT be revised without consultation with the plant staff.

2.1 REFERENCES

- §₁ 1. St. Lucie Plant Technical Specifications Unit 1 and Unit 2 (Section 6.10.1)
- 2. St. Lucie Plant Updated Final Safety Analysis Report (UFSAR) Unit 1 and Unit 2
- §₂ 3. St. Lucie Plant Radiological Emergency Plan (E-Plan)
- §₃ 4. St. Lucie Plant Topical Quality Assurance Report (TQAR)
- 5. E-Plan Implementing Procedures (EPIP 00-13)
- 6. HP-200 Series Procedures
- 7. ADM-17.09, Invoking 10 CFR 50.54(x)

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2.0 REFERENCES/RECORDS REQUIRED/COMMITMENT DOCUMENTS
(continued)

2.1 REFERENCES (continued)

8. ADM-17.11, 10 CFR 50.59 Screening
9. St. Lucie Plant Emergency Response Directory (ERD)
10. QI-17-PSL-1, Quality Assurance Records
11. ERDADS Reactor Operator's Manual (8770-12058)
- §₄ 12. Fitness for Duty Rule, 10 CFR 26
13. NUREG 1394, Emergency Response Data System (ERDS)

2.2 RECORDS REQUIRED

1. The following shall be retained following a plant emergency:
 - Checklists, data and paperwork generated per this procedure.
 - Log books maintained during the plant emergency.
- §₁ 2. Recorded information shall be forwarded to Emergency Planning following the event, for review and archival in accordance with Technical Specification 6.10.1 and QI 17-PR/PSL-1.

2.3 COMMITMENT DOCUMENTS

- ¶₁ 1. PMAI PM97-04-142, Training Drill Critique 1/24/97, (ERDADS screen mimics and full staffing guidance)
- ¶₂ 2. Condition Report 97-1389, (Emergency Supplies)

3.0 RESPONSIBILITIES

3.1 Emergency Coordinator (EC)

1. The responsibilities for this position are provided in EPIP-02, Duties and Responsibilities of the Emergency Coordinator.

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3.0 RESPONSIBILITIES (continued)

3.2 TSC EC Assist/Logkeeper

1. Initiates and maintains the EC Logbook.
2. Provides assistance to the EC to ensure EC responsibilities are met.
3. Performs duties as directed/assigned by the EC.

3.3 TSC Supervisor

1. Provides command and control of TSC activities.
2. Supervises the TSC staff particularly the communicators and administrative personnel.
3. Coordinates activities to ensure adequate support of the EC.
4. Ensures communications are performed with off-site agencies until the EOF is activated.
5. Ensures the communication flow is maintained within the facility and with the Control Room, OSC and EOF.
6. Coordinates facility briefings.
7. Arranges for long term operation of the TSC.

3.4 TSC Coordinator with the OSC

1. Serves as the coordinator with the OSC.
2. Provides the OSC with requests for Re-entry Teams.
3. Tracks the re-entry activities of the OSC.
4. Updates the TSC regarding OSC team status and corrective actions.

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3.0 RESPONSIBILITIES (continued)

3.5 TSC OPS Coordinator

NOTE

This position is filled by two persons, one located in the affected unit's Control Room, the other in the TSC.

1. Provides expertise in plant operations to the EC in the TSC.
2. Provides communications assistance to the NPS in the affected Control Room.
3. Ensures the unaffected unit's Control Room is kept apprised of the status of the emergency.
4. Maintains communication flow between the TSC and the affected Control Room concerning status of operations.
5. Serves as primary Severe Accident Management Guidelines (SAMG) decision maker.

3.6 TSC Reactor Engineer

1. Monitors critical safety functions for indications of core status.
2. Assists Nuclear Fuels personnel in the EOF in assessment of core damage.
3. Assists in Severe Accident Management Guidelines (SAMG) evaluation.

3.7 TSC Chemistry Supervisor

1. Directs dose assessment activities in the TSC.
2. Keeps the EC apprised of chemistry related issues.
3. Assists the Chemistry Supervisor in the OSC.

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3.0 RESPONSIBILITIES (continued)

3.8 TSC HP Supervisor (Tschps)

1. The responsibilities for this position are provided in HP-200, Health Physics Emergency Organization.

3.9 TSC Security Supervisor

1. Establishes and maintains site accountability.
2. Arranges site access for the NRC Site Team.
3. Controls on-site security operations throughout the emergency.

3.10 TSC Problem Solving Team (PST)

1. Evaluates plant conditions and provides recommendations to the EC.
2. Anticipates component failures and accident consequences.
3. Researches affected systems and components.
4. Develops mitigation strategies and/or countermeasures.
5. Performs Severe Accident Management Guidelines (SAMG) evaluation.

4.0 DEFINITIONS

4.1 Facility Status

1. **Activation** - the request to staff and establish an Emergency Response Facility (ERF).
2. **Operational** - when sufficient personnel (i.e., minimum staff) are available to accomplish the mandatory facility functions of off-site notifications and dose calculations.
3. **Fully Staffed** - the complete complement of personnel is present in the facility.

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4.0 DEFINITIONS (continued)

- 4.2 FPL Emergency Recall System (ERS)** - the call-out system used as a means of off hours call-out, as described in EPIP-03, Emergency Response Organization/Staff Augmentation.
- 4.3 Videolink** - a closed circuit audio/visual communications link originating in the TSC with feeds to the OSC and the EOF, allowing the EC briefings to be available in all the Emergency Response Facilities (ERFs).

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5.0 INSTRUCTIONS

NOTE

- This section provides general information and instructions for all TSC responders.
- Position specific checklists are included as attachments to this procedure.
- Individuals specifically designated as members of the TSC Emergency Response Organization (ERO) are identified in the ERD.

5.1 When notified, TSC emergency responders are to report to the facility as quickly as possible.

5.2 The initial responder to the TSC should do the following:

1. Unlock the facility with a key from the NPS, Assistant Nuclear Plant Supervisor (ANPS), or Shift Technical Advisor (STA). If these persons are unavailable, break the glass to the keybox next to the door and remove the key.
2. Turn on the facility lights.
3. Open the document cabinets.

5.3 Upon arrival at the facility, each TSC emergency responder should perform the following:

1. Sign-in on the status board on the South (rear) wall of the facility in the space corresponding to your position.
2. Obtain a "Player" badge and place your name (and position title, if necessary) on the badge with a dry erase marker or in any other non permanent manner.
3. Obtain position specific notebook with procedural checklists, forms and instructions.

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5.0 INSTRUCTIONS (continued)

5.3 Upon arrival at the facility, each TSC emergency responder should perform the following: (continued)

4. Make your workstation/location operational.
5. Notify your supervisor or the TSC Supervisor of your readiness status.
6. Assist in establishing accountability by signing-in on a form similar to Attachment 3A, TSC ERO Shift Staffing and Accountability Roster.

§₃ **5.4** Only controlled copies of nuclear safety-related procedures, drawings and other available plant information shall be used. Non-controlled documents or drawings should be verified with a controlled copy prior to use in the TSC.

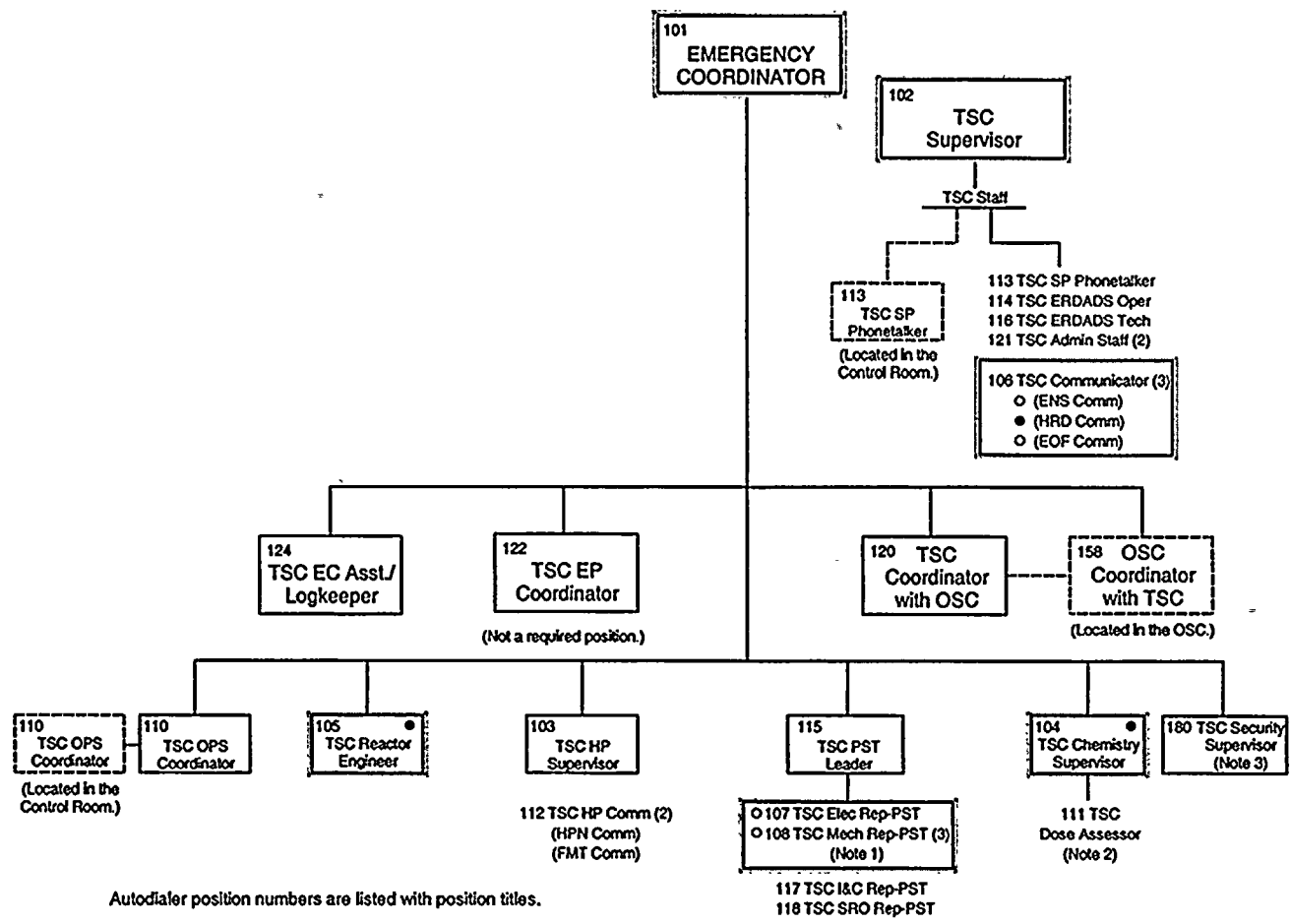
5.5 During facility briefings, stop what you are doing, pay attention and contribute, as requested.

5.6 Upon termination of the event:

1. All TSC personnel should return their workstations/locations to a normal state and assist in restoring the facility to a ready condition.
2. Collect all significant information and documentation, such as completed EIPs and attachments, logs, notification forms and other notes and data sheets, and forward this material to Emergency Planning.

END OF SECTION 5.0

TSC EMERGENCY RESPONSE ORGANIZATION AND SHIFT STAFFING
(Page 1 of 1)



Autodialer position numbers are listed with position titles.

- 30 minute response goal, per NUREG 0654, Table B-1
- 60 minute response goal, per NUREG 0654, Table B-1

Note 1- Only one person is required as minimum staff.

Note 2- The Dose Assessor function will initially be performed by the on-shift Chemist.

Note 3- The TSC Security Supervisor position is filled by the on-shift Security Shift Specialist.

Indicates minimum staffing positions that must be filled in order to declare the facility operational.

(P/EPlan/EPIP-04-F1/R0)

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ATTACHMENT 2
TSC EC ASSIST/LOGKEEPER CHECKLIST
(Page 1 of 2)

<p><u>NOTE</u> When necessary or appropriate, steps of this checklist may be performed out of sequence.</p>
--

- | <u>A. FACILITY ACTIVATION</u> | <u>INITIAL</u> |
|---|----------------|
| 1. Refer to section 5.0 of this procedure (included in the position notebook) and review the general instructions. | _____ |
|
 | |
| <u>B. FACILITY OPERATION</u> | |
| 1. Remove the EC Logbook from the EC position notebook and initiate the EC Log (use Attachment 2A, Typical Information to be Included in the EC Logbook). | _____ |
| 2. Review the requirements of EPIP-02, Duties and Responsibilities of the Emergency Coordinator. | _____ |
| 3. Steps to occur continually while the facility is in operation: | |
| a. Maintain the EC Logbook. | |
| b. Assist the EC in the completion of the requirements of EPIP-02. | |
| c. Ensure checklists/paperwork are properly completed. | |
| d. Verify that the EC approves all off-site notification forms. | |
| e. Remind the EC of time limits for notification of off-site agencies. | |
| f. Provide EC a summary of recent log entries for facility briefings. | |
| g. Support EC as needed or requested. | |

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ATTACHMENT 2
TSC EC ASSIST/LOGKEEPER CHECKLIST
(Page 2 of 2)

C. FACILITY CLOSEOUT AND RESTORATION INITIAL

NOTE
All paperwork completed in the position notebook should remain in the position notebook.

- | | |
|--|-------|
| 1. Ensured all facility activities closed out. | _____ |
| 2. Closed out the EC Log, returned the Logbook to the EC position notebook and returned the notebook to the storage cabinet. | _____ |
| 3. Ensured all paperwork collected. | _____ |
| 4. Returned position notebook to storage cabinet. | _____ |
| 5. Provided all completed paperwork to Emergency Planning. | _____ |



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ATTACHMENT 2A
TYPICAL INFORMATION TO BE INCLUDED IN THE EC LOGBOOK
(Page 1 of 1)

Maintaining concise, detailed logs during an emergency event is important. Following the event, all information recorded will be needed to provide a clear picture of actions taken.

A. The following information should be included in the EC Logbook:

1. Key events (e.g., classification changes, injuries, etc.).
2. Status changes in equipment, radiological conditions, personnel, etc.
3. Decisions made or actions taken.
4. Other items of significance.

B. Log entry requirements:

1. Time of entry.
2. Use ink.
3. Write/print legibly.
4. Use concise and accurate wording.
5. Strike through and initial changes.
6. Do not remove pages from the log.



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ATTACHMENT 3
TSC SUPERVISOR CHECKLIST
(Page 1 of 4)

NOTE
When necessary or appropriate, steps of this checklist may be performed out of sequence.

A. FACILITY ACTIVATION INITIAL

1. Refer to Section 5.0 of this procedure (included in the position notebook) and review the general instructions. _____
2. Determine operational readiness of the TSC by verifying the following:

NOTE
Attachment 3B, TSC Minimum Staffing Requirements, should be used to determine staff and suitable alternates.

- a. Minimum staff available (use to Attachment 3A, TSC ERO Shift Staffing and Accountability Roster). _____
 - b. Communications equipment, procedures and other supplies are available, checked and ready to use. _____
 - Commercial phone as backup to State/County and NRC Notifications (DO NOT test call HRD or ENS).
 - Extension phones in TSC.
 - Procedure, drawing, tech manual cabinets unlocked.
 - TSC personnel are verifying procedures in position notebooks.
 - c. Minimum staff prepared to accomplish mandatory facility functions. _____
3. Recommend to the EC that the TSC should be declared operational. Operational at _____ _____



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ATTACHMENT 3
TSC SUPERVISOR CHECKLIST
(Page 2 of 4)

A. (continued)

INITIAL

¶₁

NOTE
Unless authorized by the EC, facility staffing should be in accordance with Attachment 3A, TSC ERO Shift Staffing and Accountability Roster.

- 4. Review additional staffing status with the EC. _____
- 5. TSC fully staffed. _____
- 6. Ensure that the EC log, completed notification forms and checklists and any other pertinent information have been faxed to the EOF. _____

B. FACILITY OPERATION

- 1. Initiate the TSC Logbook. _____

NOTE
The TSC Reactor Engineer, in coordination with the Shift Technical Advisor (STA), is responsible for establishing the communication between the St. Lucie Plant's Emergency Response Data Acquisition and Display System (ERDADS) and the NRC's Emergency Response Data System (ERDS).

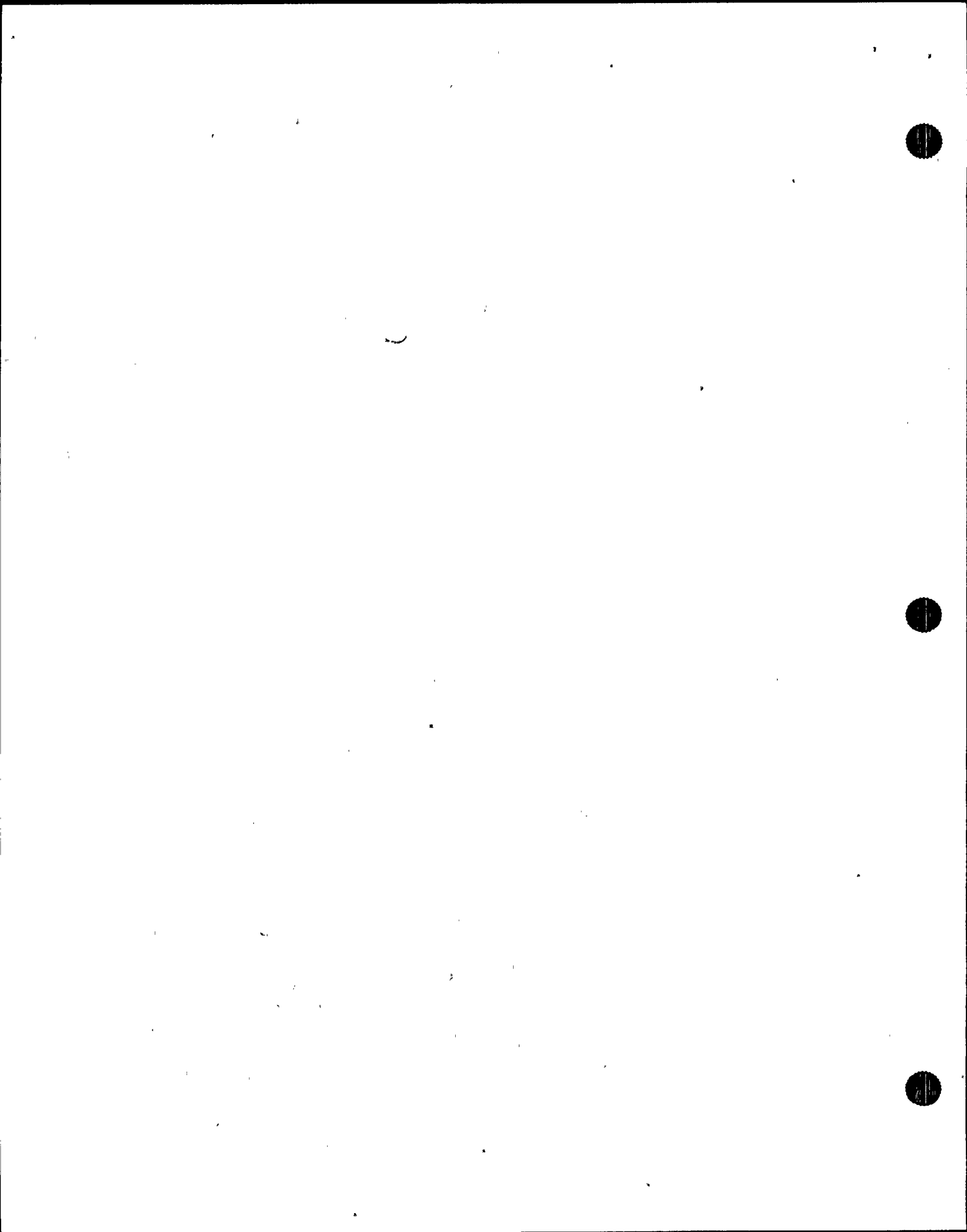
- 2. Ensure ERDADS Link with the NRC (ERDS) established/ attempted. _____
- ¶₂ 3. Obtain food and water supply for the Unit 1 Control Room/TSC personnel. _____
- ¶₂ 4. Obtain food and water supply for the Unit 2 Control Room personnel. _____



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ATTACHMENT 3
TSC SUPERVISOR CHECKLIST
(Page 3 of 4)

- | | <u>INITIAL</u> |
|---|----------------|
| B. (continued) | |
| 5. Arrange for long term staffing (use Attachment 3A, TSC ERO Shift Staffing and Accountability Roster). | _____ |
| 6. As directed by the EC, initiate steps for relocation of the TSC (use Attachment 3D, Guidelines for Relocation of the TSC). | _____ |
| 7. Steps to occur continually while the facility is in operation: | |
| a. Maintain the TSC Logbook. | |
| b. Manage/supervise activities of TSC Communicators (HRD, ENS, EOF, HPN, Sound-Powered Phonetalker, FMT). | |
| c. Manage/supervise activities of the TSC Administrative Staff. | |
| d. Maintain low noise levels in the facility. | |
| e. Coordinate overall support functions of the TSC. | |
| f. Conduct briefings in accordance with Attachment 3C, TSC Facility Briefings. | |
| g. Ensure the OSC is kept well informed regarding emergency status and plant conditions (an audio/video link may be used for this purpose). | |
| h. Ensure the EOF is kept well informed regarding emergency status and plant conditions (an audio/video link may be used for this purpose). | |



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ATTACHMENT 3
TSC SUPERVISOR CHECKLIST
(Page 4 of 4)

C. FACILITY CLOSEOUT AND RESTORATION INITIAL

NOTE
All paperwork completed in the position notebook should remain in the position notebook.

- | | |
|--|-------|
| 1. All communications links terminated. | _____ |
| 2. All communications paperwork collected. | _____ |
| 3. All facility activities closed out. | _____ |
| 4. All documents, equipment and supplies returned to pre-activation condition and/or location. | _____ |
| 5. Closed out TSC Logbook. | _____ |
| 6. Returned position notebook to storage cabinet. | _____ |
| 7. Provided all completed paperwork to Emergency Planning. | _____ |

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ATTACHMENT 3A
TSC ERO SHIFT STAFFING AND ACCOUNTABILITY ROSTER
(Page 1 of 1)

Shift^{1,2} _____, Hours _____ To _____

POSITION (Minimum staff in bold ³)	NAME	BADGE NO.	POSITION (Minimum staff in bold ³)	NAME	BADGE NO.
Emergency Coordinator			TSC HP Comm		
TSC Supervisor			TSC HP Comm		
			TSC SP Phonetalker (in TSC)		
TSC Chemistry Supervisor			TSC SP Phonetalker (in Control Room)		
TSC Reactor Engineer			TSC ERDADS Operator		
TSC Communicator ⁴			TSC PST Leader		
TSC Communicator ⁴			TSC ERDADS Tech		
TSC Communicator ⁴			TSC I&C Rep - PST		
TSC Elec Rep - PST			TSC SRO Rep - PST		
TSC Mech Rep - PST			TSC Coordinator with OSC		
TSC Mech Rep - PST			TSC Admin Staff		
TSC Mech Rep - PST			TSC Admin Staff		
TSC HP Supervisor			TSC EC Assist/ Logkeeper		
TSC Security Supervisor			TSC EP Coordinator (not required)		
TSC OPS Coord (in TSC)					
TSC OPS Coord (in Control Room)					
TSC Dose Assessor					

- ¹ Long term staffing, refer to the St. Lucie Plant Emergency Response Directory (ERD) for position alternates.
- ² Long term staffing includes the Control Rooms, attach list to this sheet.
- ³ Refer to Attachment 3B, TSC Minimum Staffing Requirements, to this attachment for temporary alternates for minimum staff positions.
- ⁴ TSC Communicator position fills the following positions:
 - a. TSC ENS Communicator
 - b. TSC HRD Communicator
 - c. TSC EOF Communicator

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ATTACHMENT 3B
TSC MINIMUM STAFFING REQUIREMENTS
(Page 1 of 1)

Major Functional Area ¹	Position Title and ID No. ²	# in Position	Qualifications/ Temporary Alternate
Senior Mgmt. Rep.	Emergency Coordinator, 101	1	Senior Manager with Emergency Coordinator qualifications
Off-site Dose Assessment	TSC Chemistry Supv, 104	1	Member of Chemistry Department
Core/Thermal Hydraulics	TSC Reactor Engineer, 105	1	Member of the Reactor Engineering Department or current or prior STA
Notification/Communication	TSC Communicator, 106	3	TSC responder with - STA or equivalent background for ENS Communicator - Technical/operational background for HRD or EOF Communicator
Electrical	TSC Elec Rep - PST, 107	1	Electrical Engineer or Electrical Maintenance Supervisor
Mechanical	TSC Mech Rep - PST, 108	1	Mechanical Engineer or Mechanical Maintenance Supervisor
Facility Command and Control	TSC Supervisor, 102	1	TSC Coordinator with OSC

¹ This function(s) may be accomplished during the first 75 minutes of an emergency by an individual(s) meeting the corresponding listed qualifications.

² These Emergency Response Organization (ERO) positions were established to accomplish the indicated function(s).

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ATTACHMENT 3C
TSC FACILITY BRIEFINGS
(Page 1 of 1)

NOTE

Briefings should be carried by the Videolink.

A. GENERAL GUIDELINES

1. Conducted by the TSC Supervisor or his/her designee.
2. Establish a frequency (e.g., approximately every 30 minutes).
3. Set criteria (i.e., attendance, noise and activity level, circulation of information, etc.).

B. GENERAL FORMAT - the following information should be included in facility briefings.

1. Initial status and summary by the Emergency Coordinator to include:
 - a. Time of the briefing.
 - b. Emergency Classification.
 - c. Plant status (affected unit, unaffected unit).
 - d. Radiological conditions (e.g., release in progress, contaminated areas, etc.).
 - e. Status of protective actions (e.g., site evacuation, actions underway by the public, etc.).
 - f. Status of activities underway in the facility.
2. Request input/update information from other representatives:
 - a. Operations.
 - b. Health Physics (including field monitoring activities).
 - c. Reactor Engineering (including dose assessment).
 - d. Problem Solving Team.
 - e. TSC Coordinator with the OSC (including re-entry activities).
3. Major activities underway in other facilities.
4. Concerns or questions.



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ATTACHMENT 3D
GUIDELINES FOR RELOCATION OF THE TSC
(Page 1 of 3)

If habitability of the Unit 1 Control Room is challenged (e.g., due to fire/smoke) and evacuation is required, the TSC will need to be relocated. The following guidelines are provided to assist in this endeavor.

A. Emergency Coordinator

1. Transfer the responsibilities of the EC as follows:
 - a. Classification of the emergency - NPS

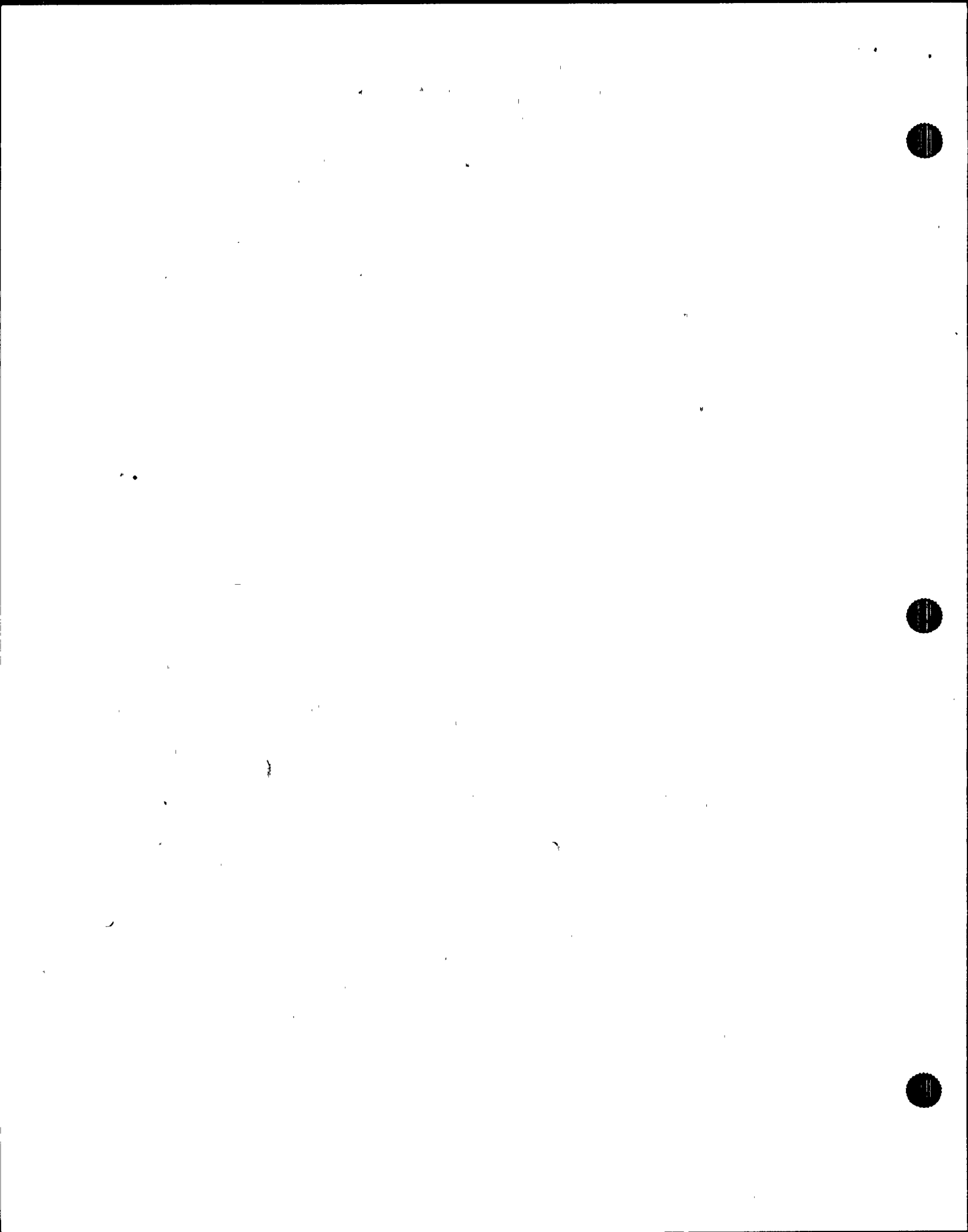
NOTE

The EOF, once operational, has responsibility for recommending protective actions and for off-site notifications.

- b. Protective Action Recommendations (PARs) - NPS
 - c. Decision to notify off-site officials and the content of notification messages - NPS
 - d. Request the unaffected Control Room ANPS to support the NPS in off-site notifications.
2. Conduct a transfer of EC responsibilities with the NPS (via phone conversation) once the alternate TSC is prepared to go operational.

B. TSC Supervisor

1. In conjunction with the EC and the TSC HP Supervisor, determine the appropriate area to relocate the TSC. Choose one of the following:
 - a. South Service Building
 - b. Nuclear Training Center
2. Direct the evacuation by briefing TSC personnel on location, travel route, materials to take and any immediate actions prior to leaving the facility (e.g., formally terminate communications, turn off equipment, etc.)



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ATTACHMENT 3D
GUIDELINES FOR RELOCATION OF THE TSC
(Page 2 of 3)

B. (continued)

3. Re-establish command and control of TSC functions as quickly as possible.
 - a. Transfer the responsibility for off-site notifications from the unaffected Control Room (if this responsibility has not been transferred to the EOF) to the communicators in the relocated TSC.

C. All TSC Personnel

1. Formally discontinue communications.
2. Gather position notebooks and other pertinent materials.
3. Travel per the prescribed route to the alternate TSC location.
4. Assist Security in re-establishing accountability as quickly as possible.
5. Re-establish TSC functions as quickly as possible.

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ATTACHMENT 3D
GUIDELINES FOR RELOCATION OF THE TSC
(Page 3 of 3)

Suggested Arrangements and Equipment Availability at Alternate TSC Locations:

SOUTH SERVICE BUILDING NUCLEAR TRAINING CENTER

Communications

HRD Phone	EP area fourth floor	Simulator
ENS Phone	Any commercial phone	Any commercial phone
HPN Phone	Any commercial phone	Any commercial phone
EOF Phone	Any commercial phone	Any commercial phone
FMT Radio	EP area fourth floor	Simulator

Dose Assessment

Class A Model	EP area fourth floor	Technical Training area second floor
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TSC Functions

Command and Control	EP area fourth floor	Conference room and Supervisor offices second floor
Problem Solving Team	Engineering area third floor	Conference room second floor
Other	Cubicles second and fourth floor	Cubicles second floor

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ATTACHMENT 4
TSC COMMUNICATOR CHECKLIST
(Page 1 of 4)

NOTE

1. This checklist applies to the following Communicator positions in the TSC:

HRD Communicator ENS Communicator
EOF Communicator Sound-powered Phonetalker (CR/TSC)

2. The responsibilities of the TSC HP Communicators are provided as follows:

HPN Communicator - in HP-200, Health Physics Emergency Organization
FMT Comm/Coord - in EPIP-10, Off-site Radiological Monitoring

3. When necessary or appropriate, steps of this checklist may be performed out of sequence.

A. **FACILITY ACTIVATION** **INITIAL**

1. Refer to Section 5 of this procedure (included in the position notebook) and review the general instructions. _____

NOTE

Communicator positions should be filled in the following order:

1. Hot Ring Down (HRD) Phone
2. Emergency Notification System (ENS)
3. EOF
4. Sound-powered Phone (CR)
5. Sound-powered Phone (TSC)

2. Filling the position of _____ _____
3. Review appropriate information in Attachment 4A, Communications Guidelines. _____

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ATTACHMENT 4
TSC COMMUNICATOR CHECKLIST
(Page 2 of 4)

B. FACILITY OPERATION

1. Steps to occur continually while the facility is in operation:

HRD Communications

- a. Assist the EC with State and County notifications by preparing the State Notification Form (see Attachment 2 in EPIP-02, Duties and Responsibilities of the Emergency Coordinator.
- b. Ensure notifications are initiated within 15 minutes of a classification/Protective Action Recommendation (PAR) change or other significant event.
- c. Ensure State Notification Forms:
 - 1. Contain PAR information that matches the PAR Worksheet (see Attachment 5 in EPIP-02).
- d. Request the TSC EC Assist/Logkeeper log notification times.

ENS Communications

- a. At an Alert or higher emergency classification, request the NRC to establish the ENS conference bridge.
- b. Maintain an open line of communication and a transmission log (initially, this will be the NRC Notification Form in Attachment 7 of EPIP-02).
- c. Ensure notifications are initiated within 1 hour (immediately following State and County notification) of a classification/PAR change or other significant event.
- d. Request the TSC EC Assist/Logkeeper log notification times.
- e. Log all questions asked by NRC.

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ATTACHMENT 4
TSC COMMUNICATOR CHECKLIST
(Page 3 of 4)

B. (continued)

1. (continued)

ENS Communications (continued)

- f. Obtain answers to questions from appropriate TSC staff member.
- g. Obtain EC approval prior to providing additional information to the NRC.

EOF Communications

- a. Maintain an open line of communication with the EOF.
- b. If ERDADS is out of service, use Attachment 4B, Safety Functions Equipment Status and Radioactive Gaseous Source Terms, to obtain plant parameter and radiological data (use Attachment 4B) via the Sound-powered Phonetalker and share the information with the EOF (via the TSC Communicator in the EOF).
- c. Provide clarification of any discrepant information as requested by the EOF.

Sound-powered Phonetalker

- a. Provide an open line of communication between the affected Control Room and the TSC.
- b. Provide fan status for dose assessment.
- c. Provide clarification of data and/or obtain additional data as requested by the TSC.
- d. If ERDADS is out of service, use Attachment 4B, Safety Functions Equipment Status and Radioactive Gaseous Source Terms, to obtain plant parameter and radiological data.

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ATTACHMENT 4
TSC COMMUNICATOR CHECKLIST
(Page 4 of 4)

C. FACILITY CLOSEOUT AND RESTORATION INITIAL

NOTE
All paperwork completed in the position notebook should remain in the position notebook.

1. All communications links (HRD, ENS, EOF, Sound-powered phone) terminated. _____
2. All communications paperwork collected. _____
3. All phone equipment returned to pre-activation condition. _____
4. Returned position notebook to storage cabinet. _____
5. Provided all completed paperwork to the TSC Supervisor. _____



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ATTACHMENT 4A
COMMUNICATIONS GUIDELINES
(Page 1 of 5)

NOTE

If communications are associated with drill or exercise, the statement "This is a drill" should precede and follow the actual message.

A. GENERAL GUIDELINES

1. Always speak clearly, firmly and with normal tone when using any communication system.
2. The sender and receiver should be clearly identified.
3. Message text:
 - a. Communication must be free of ambiguity. Slang terms should not be used. Avoid the use of words that sound alike; for example, avoid increase and decrease, use raise and lower instead.
 - b. Communications must be specific. Use noun names for plant equipment, not acronyms; for example lower pressure safety injection pump instead of LPSI.
 - c. The phonetic alphabet should be used to identify specific train, bus, channel or equipment designations, not just letter identifier; for example, refer to the 1Alpha heater drain pump, not the 1A heater drain pump. The following is the phonetic alphabet to be used:

A Alpha	J Juliet	S Sierra
B Bravo	K Kilo	T Tango
C Charlie	L Lima	U Uniform
D Delta	M Mike	W Whiskey
E Epsilon	N November	X X-ray
F Foxtrot	O Oscar	Y Yankee
G Golf	P Papa	Z Zulu
H Hotel	Q Quebec	
I India	R Romeo	

- d. The phonetic alphabet should not be used for stringed letter references, acceptable acronyms or location symbols; for example, AB bus, AC or DC, TSC, respectively.

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ATTACHMENT 4A
COMMUNICATIONS GUIDELINES
(Page 2 of 5)

A. (continued)

4. Acknowledgement and confirmation (3-way communication) - messages shall be comprised of proper transmission, acknowledgement, and confirmation.
 - a. The message is properly transmitted from the originator to the receiver.
 - b. The message receiver should acknowledge the communication by giving functional repeat-back to the message originator. The repeat-back can be provided by either paraphrasing or explaining the message in one's own words, or by verbatim repeat-back. In all cases, verbatim repeat-back should be used for equipment identifiers.
 - c. If the message receiver does not understand the message he/she should ask for the message to be repeated.
 - d. If an incorrect repeat-back is given, the message originator should immediately correct the miscommunication with a statement such as, "WRONG", followed by restating the correct message.
 - e. The message originator should confirm the acknowledgement (repeat-back) with a statement such as, "That is correct".
5. The Call Sign should be used periodically when using the Local Government Radio (LGR).
6. Prior to transmission, ensure that information has been verified and approved by the appropriate authority, as necessary.
7. Ensure that any incoming pertinent information is provided to the TSC Supervisor and the Emergency Coordinator or designee.
8. Maintain documentation of any significant information provided or received.

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ATTACHMENT 4A
COMMUNICATIONS GUIDELINES
(Page 3 of 5)

B. COMMUNICATIONS SYSTEMS

1. State Warning Point (SWP) Hot Ring Down Phone (HRD)
 - a. This is the primary communications pathway to the State Warning Point and St. Lucie and Martin Counties.
 - b. A self-verifying phone system which is initiated by entering the 3 digit code corresponding to the desired location of contact. The codes appear on a list in a pull-out drawer attached to the base of the phone or in the St. Lucie Plant Emergency Response Directory (ERD). A confirmation ring-back (double tone) will be heard if the dialed terminal is successfully contacted. When the party answers, begin transmission by depressing the "push-to-talk" bar in the handset. Release the "push-to-talk" bar to receive response.

2. NRC Emergency Notification System (ENS)
 - a. This is the primary communications pathway to the NRC.
 - b. Part of the NRC FTS 2000 phone system. Initiate contact by dialing (direct, no access code needed) one of the phone numbers provided on the phone or in the ERD. This will become an open line of communication at the Alert or higher emergency class. The EOF will join the conference bridge.

3. EOF Direct-line Telephone
 - a. This is a direct line to the Emergency Operations Facility (EOF). Initiate contact by removing the handset from the cradle which will cause the phone in the EOF to ring. When the phone is answered, begin transmission. This link can also be initiated from the EOF.



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ATTACHMENT 4A
COMMUNICATIONS GUIDELINES
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B. (continued)

4. Sound-powered Phone

- a. As the name implies, these phone (headsets) are powered by sound.
- b. The Unit 1 phone jack is located near the Dose Assessment Status Board; the Unit 2 phone jack is located next to the Chronology Status Board in the rear of the room.
- c. Once the headsets have been connected in both the affected Control Room and the TSC, transmission can begin by speaking into the mouthpiece.

5. Commercial Telephone

- a. **This is the first alternate communications pathway to the State Warning Point and St. Lucie, Martin Counties, and NRC.**
- b. Dial 9 for a Fort Pierce exchange; dial 8-1-Area Code for all other numbers. An authorization code is needed for long distance calls.

6. Emergency Satellite Communications System (ESATCOM)

- a. **This is a second alternate communications pathway to the State Warning Point and St. Lucie and Martin Counties.**
- b. To initiate transmission, lift the handset and depress the "push-to-talk" bar in the handset. Wait 3-5 seconds to hear a beep before starting to talk. The red light on the phone is a power indicator, when lit, power is available.

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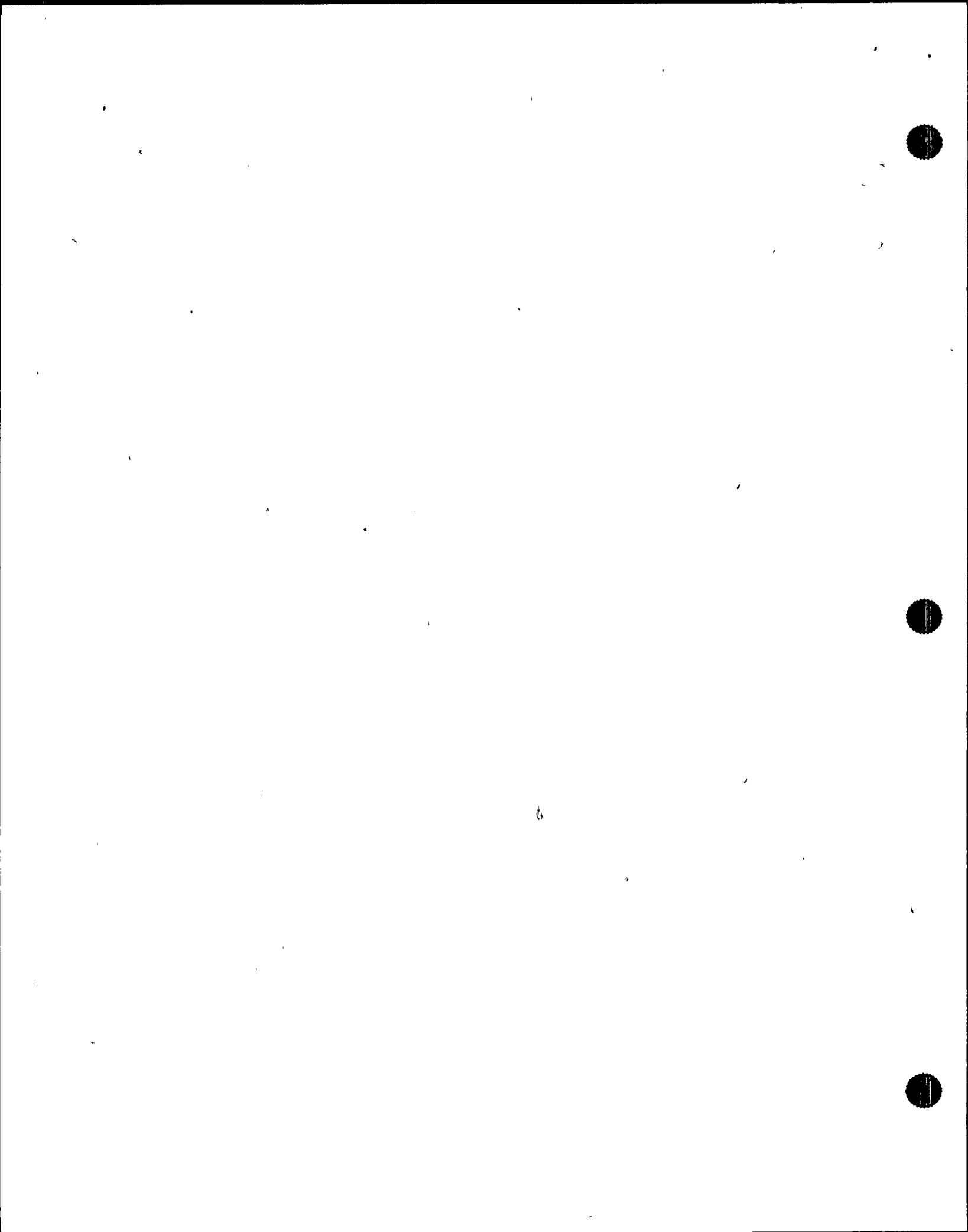
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COMMUNICATIONS GUIDELINES
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B. (continued)

7. Local Government Radio (LGR) - Call Sign: Kilo November Golf Romeo 8-7-4 (KNGR874).
 - a. This is the third alternate communications pathway to the State Warning Point.
 - b. A backup communication system to the Counties and indirectly to the State. A table radio, Motorola Command Series, provides two channels, the primary F2 (39.180 MHz, State Channel 1) and the secondary F1 (39.100 MHz, State Channel 2). Channel selection can be made by depressing the "F1/F2" button (the radio is set to monitor F2). The radio can 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. (Preference should be given to using the handset).

8. Very High Frequency Radio (VHF) - Call Sign: St. Lucie Plant
 - a. Communication link to the FPL Storm Center. May also be used to monitor National Weather Service transmissions. To operate, locate "corbett" (transmission tower) in the alpha display by depressing "home" or use "mode". This Motorola DGT 9000 radio unit can 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 transmit light is lit during transmission. (Preference should be given to using the handset).

9. Satellite Telephone
 - a. Instructions for use of the satellite telephone are provided in the phone's briefcase.
 - b. The phone is stored in a supply cabinet in the TSC.



ATTACHMENT 4B
SAFETY FUNCTIONS EQUIPMENT STATUS - UNIT 1

(Page 1 of 4)

ERDADS SF1 Screen Mimic

<u>PLANT PARAMETERS</u>	<u>SAFEGUARDS</u>	<u>CONTAINMENT</u>	<u>BALANCE OF PLANT</u>
REACTOR PWR (WR) _____ %	<u>PUMP STATUS (ON/OFF)</u>	PRESSURE _____ PSIG	<u>ELECTRICAL PLANT</u>
REACTOR VSL LEVEL _____ %	HPSI A ON/OFF	LEVEL (NR) _____ FEET	4.16 KV A3 _____ VOLTS
RCS PRESSURE (NR) _____ PSIA	HPSI B ON/OFF	LEVEL (WR) _____ FEET	4.16 KV B3 _____ VOLTS
(1500-2500)	LPSI A ON/OFF	TEMPERATURE	<u>DIESEL GENERATORS</u>
RCS PRESSURE (LR) _____ PSIA	LPSI B ON/OFF	ATMOSPHERE _____ DEG F	D/G A _____ VOLTS
(0-1600)	CHRG A ON/OFF	SUMP _____ DEG F	D/G A _____ AMPS
PRESSURIZER LEVEL _____ %	CHRG B ON/OFF	<u>RADIATION LEVEL</u>	D/G B _____ VOLTS
CET TEMPERATURE _____ DEG F	CHRG C ON/OFF	CHRM _____ R/HR	D/G B _____ AMPS
HOT LEG A TEMP _____ DEG F	CCW A ON/OFF	POST/LOCA _____ MR/HR	<u>TANK STATUS</u>
HOT LEG B TEMP _____ DEG F	CCW B ON/OFF	PARTICULATE _____ CPM	RWT _____ FEET
COLD LEG A1 TEMP _____ DEG F	CCW C ON/OFF	GASEOUS _____ CPM	CST _____ FEET
COLD LEG A2 TEMP _____ DEG F	AFW A ON/OFF	<u>HYDROGEN CONCENTRATION</u>	BAMT A _____ %
COLD LEG B1 TEMP _____ DEG F	AFW B ON/OFF	A ANALYSER _____ %	BAMT B _____ %
COLD LEG B2 TEMP _____ DEG F	AFW C ON/OFF	B ANALYSER _____ %	<u>HVAC STATUS (ON/OFF)</u>
LMTNG SB COOL MRGN _____ DEG F	<u>AUX FEED FLOW (GPM)</u>	<u>CONTAINMENT COOLERS (ON/OFF)</u>	HVE 4A ON/OFF
S/G A PRESSURE _____ PSIG	A _____ B _____ C _____	CNTMT COOLER A ON/OFF	HVE 4B ON/OFF
S/G A LEVEL (WR) _____ %	<u>HPSI FLOW (GPM)</u>	CNTMT COOLER B ON/OFF	HVE 8A ON/OFF
S/G B PRESSURE _____ PSIG	A1 _____ A2 _____	CNTMT COOLER C ON/OFF	HVE 8B ON/OFF
S/G B LEVEL (WR) _____ %	B1 _____ B2 _____	CNTMT COOLER D ON/OFF	HVE 9A ON/OFF
CNTMT PRESS (WR) _____ PSIG	<u>LPSI FLOW (GPM)</u>		HVE 9B ON/OFF
CONTAINMENT TEMP _____ DEG F	A1 _____ A2 _____		HVE 10A ON/OFF
	B1 _____ B2 _____		HVE 10B ON/OFF
	<u>SIT'S LEVEL (%)</u>		
	A1 _____ A2 _____		
	B1 _____ B2 _____		
	<u>SIT'S PRESS (PSIA)</u>		
	A1 _____ A2 _____		
	B1 _____ B2 _____		
	<u>SAFEGUARDS SIGNALS</u>		
	SIAS A YES / NO		
	SIAS B YES / NO		
	MSIS A YES / NO		
	MSIS B YES / NO		

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ATTACHMENT 4B
RADIOACTIVE GASEOUS SOURCE TERMS - UNIT 1
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ERDADS RG1 Screen Mimic

	10 METER	57.9 METER
WIND SPEED	_____ MPH	_____ MPH
WIND DIRECTION	_____ DEG	_____ DEG
AIR TEMP	_____ DEG F	_____ DEG F
DIFF TEMP	_____ DEG F / 50 METER	

<u>CHANNEL</u>	<u>MAIN STEAM</u>	<u>VALUE</u>	<u>UNITS</u>	<u>CHANNEL</u>	<u>CONTAINMENT</u>	<u>VALUE</u>	<u>UNITS</u>
05-01	A MAIN STM	_____	MR/HR	58	A HI RANGE	_____	R/HR
05-02	B MAIN STM	_____	MR/HR	59	B HI RANGE	_____	R/HR
					PRESSURE	_____	PSIG
<u>CHANNEL</u>	<u>ECCS 1A</u>	<u>VALUE</u>	<u>UNITS</u>	<u>CHANNEL</u>	<u>PLANT VENT</u>	<u>VALUE</u>	<u>UNITS</u>
02-05	LOW RANGE	_____	uC/cc	01-05	LOW RANGE	_____	uC/cc
02-07	MID RANGE	_____	uC/cc	01-07	MID RANGE	_____	uC/cc
02-09	HI RANGE	_____	uC/cc	01-09	HI RANGE	_____	uC/cc
02-10	FLOW	_____	SCFM	01-10	FLOW	_____	SCFM
<u>CHANNEL</u>	<u>ECCS 1B</u>	<u>VALUE</u>	<u>UNITS</u>	<u>CHANNEL</u>	<u>FUEL BLDG</u>	<u>VALUE</u>	<u>UNITS</u>
03-05	LOW RANGE	_____	uC/cc	04-05	LOW RANGE	_____	uC/cc
03-07	MID RANGE	_____	uC/cc	04-07	MID RANGE	_____	uC/cc
03-09	HI RANGE	_____	uC/cc	04-09	HI RANGE	_____	uC/cc
03-10	FLOW	_____	SCFM	04-10	FLOW	_____	SCFM

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ATTACHMENT 4B
SAFETY FUNCTIONS EQUIPMENT STATUS - UNIT 2
(Page 3 of 4)

ERDADS SF2 Screen Mimic

<u>PLANT PARAMETERS</u>	<u>SAFEGUARDS</u>	<u>CONTAINMENT</u>	<u>BALANCE OF PLANT</u>
REACTOR POWER (WR) _____	<u>PUMP STATUS (ON/OFF)</u>	PRESSURE _____ PSIG	<u>ELECTRIC PLANT</u>
RX VSL HEAD LEVEL _____%	HPSI A ON/OFF	LEVEL (NR) _____ FEET	4.16 KV A3 _____ VOLTS
RX VSL PLENUM LEVEL _____%	HPSI B ON/OFF	((-7) TO 0)	4.16 KV B3 _____ VOLTS
RCS PRESSURE (NR) _____ PSIA (1500-2500)	LPSI A ON/OFF	LEVEL (WR) _____ FEET	<u>DIESEL GENERATORS</u>
RCS PRESSURE (LR) _____ PSIA (0-750)	LPSI B ON/OFF	((-1) TO 26)	D/G A _____ VOLTS
PRESSURIZER LEVEL _____%	CHRG A ON/OFF	<u>TEMPERATURE</u>	D/G A _____ AMPS
CET TEMPERATURE _____ DEG F	CHRG B ON/OFF	ATMOSPHERE _____ DEG F	D/G B _____ VOLTS
HOT LEG A TEMP _____ DEG F	CHRG C ON/OFF	SUMP _____ DEG F	D/G B _____ AMPS
HOT LEG B TEMP _____ DEG F	CCW A ON/OFF	<u>RADIATION LEVEL</u>	<u>TANK STATUS</u>
COLD LEG A1 TEMP _____ DEG F	CCW B ON/OFF	CHHRM _____ R/HR	RWT _____ FEET
COLD LEG A2 TEMP _____ DEG F	CCW C ON/OFF	POST/LOCA _____ MR/HR	CST _____ FEET
COLD LEG B1 TEMP _____ DEG F	AFW A ON/OFF	PARTIC _____ CPM	BAMT A _____ %
COLD LEG B2 TEMP _____ DEG F	AFW B ON/OFF	GASEOUS _____ uC/cc	BAMT B _____ %
LMTNG SBCOOL MRGN _____ DEG F	AFW C ON/OFF	<u>HYDROGEN CONCENTRATION</u>	<u>HVAC STATUS (ON/OFF)</u>
S/G A PRESSURE _____ PSIG	<u>AUX FEED FLOW (GPM)</u>	A ANALYSER _____ %	HVE 4A ON/OFF
S/G A LEVEL (WR) _____%	A _____ B _____ C _____	B ANALYSER _____ %	HVE 4B ON/OFF
S/G B PRESSURE _____ PSIG	<u>HPSI FLOW (GPM)</u>	<u>CONTAINMENT COOLERS</u>	HVE 8A ON/OFF
S/G B LEVEL (WR) _____%	A1 _____ A2 _____	(ON/OFF)	HVE 8B ON/OFF
CNTMT PRESS (WR) _____ PSIG	B1 _____ B2 _____	CNTMT COOLER A ON/OFF	HVE 9A ON/OFF
CONTAINMENT TEMP _____ DEG F	<u>SIT'S LEVEL (%)</u>	CNTMT COOLER B ON/OFF	HVE 9B ON/OFF
	A1 _____ A2 _____	CNTMT COOLER C ON/OFF	HVE 10A ON/OFF
	B1 _____ B2 _____	CNTMT COOLER D ON/OFF	HVE 10B ON/OFF
	<u>SIT'S PRESS (PSIA)</u>		
	A1 _____ A2 _____		
	B1 _____ B2 _____		
	<u>SAFEGUARDS SIGNALS</u>		
	SIAS A YES / NO		
	SIAS B YES / NO		
	MSIS A YES / NO		
	MSIS B YES / NO		



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ATTACHMENT 4B
RADIOACTIVE GASEOUS SOURCE TERMS - UNIT 2
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ERDADS RG2 Screen Mimic

	10 METER	57.9 METER
WIND SPEED	_____ MPH	_____ MPH
WIND DIRECTION	_____ DEG	_____ DEG
CURRENT TEMP	_____ DEG F	_____ DEG F
DIFF TEMP	_____ DEG F	

<u>CHANNEL</u>	<u>MAIN STEAM</u>	<u>VALUE</u>	<u>UNITS</u>	<u>CHANNEL</u>	<u>CONTAINMENT</u>	<u>VALUE</u>	<u>UNITS</u>
631	A MAIN STM	_____	MR/HR	40	A HI RANGE	_____	R/HR
632	B MAIN STM	_____	MR/HR	41	B HI RANGE	_____	R/HR
633	BACKGROUND	_____	MR/HR		PRESSURE	_____	PSIG

<u>CHANNEL</u>	<u>ECCS 2A</u>	<u>VALUE</u>	<u>UNITS</u>	<u>CHANNEL</u>	<u>PLANT VENT</u>	<u>VALUE</u>	<u>UNITS</u>
601	LOW RANGE	_____	uC/cc	621	LOW RANGE	_____	uC/cc
602	MID RANGE	_____	uC/cc	622	MID RANGE	_____	uC/cc
603	HI RANGE	_____	uC/cc	623	HI RANGE	_____	uC/cc
604	EFFLUENT	_____	uC/SEC	624	EFFLUENT	_____	uC/SEC

<u>CHANNEL</u>	<u>ECCS 2B</u>	<u>VALUE</u>	<u>UNITS</u>
611	LOW RANGE	_____	uC/cc
612	MID RANGE	_____	uC/cc
613	HI RANGE	_____	uC/cc
614	EFFLUENT	_____	uC/SEC



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ATTACHMENT 5
TSC ERDADS OPERATOR CHECKLIST
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NOTE

When necessary or appropriate, steps of this checklist may be performed out of sequence.

A. FACILITY ACTIVATION INITIAL

1. Refer to Section 5 of this procedure (included in the position notebook) and review the general instructions. _____

B. FACILITY OPERATION

CAUTION

Ensure data is being collected for the affected unit. Each unit has predesignated ERDADS terminals.

1. Check out ERDADS terminals and determine operability status. _____

If ERDADS is inoperable or printouts are not available, Then assist the Sound-powered Phonetalker in collecting plant parameter and radiological data by completing Attachment 4B, Safety Functions Equipment Status and Radioactive Gaseous Source Terms.

2. Steps to occur continually while the facility is in operation:
- a. Call up EPIP screens and additional data as requested, refer to Attachment 5A, ERDADS Data Acquisition.
 - b. Provide the following printouts to the TSC Administrative Staff.
 1. Safety Functions Equipment Status (SF 1/2).
 2. Radioactive Gaseous Source Terms (RG 1/2).
 3. Other screens as requested.

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ATTACHMENT 5
TSC ERDADS OPERATOR CHECKLIST
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B. (continued) INITIAL

2. (continued)

- c. Support dose assessment by providing requested data from ERDADS.
- d. Observe ERDADS data during interval between report printing for significant changes and trends, report changes to appropriate members of the TSC staff.
- e. Refer to Attachment 5B, ERDADS Data Points, for a description of ERDADS data points.

C. FACILITY CLOSEOUT AND RESTORATION

NOTE
All paperwork completed in the position notebook should remain in the position notebook.

- 1. ERDADS system returned to preactivation condition. _____
- 2. Returned position notebook to storage cabinet. _____

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ATTACHMENT 5A
ERDADS DATA ACQUISITION
(Page 1 of 3)

I. DATA ACQUISITION

A. ERDADS - Emergency Response Data Acquisition and Display System, the following information is available on the display screens indicated.

1. Meteorological Data -

Display: **SMD** (Site Meteorological Data)

2. Plant Parameter Data -

CAUTION

Certain parameters (e.g., fan status) available on Unit 2 are NOT available on Unit 1.

Display: in the TSC - **SF (1/2)** (Safety Functions and Equipment Status)

3. Radiological Data -

Display: **RG (1/2)** (Radiation Gaseous Source Terms) **RBS** (Health Physics Evaluation Screen - containment radiation levels and trends) **R11** (Area Radiation Monitors, Unit 1) **R21** (Area Radiation Monitors, Unit 2)

4. Chemistry Data -

Display: **R12** (S/G Blowdown, Steam Jet Air Ejector, Unit 1)
R22 (S/G Blowdown, Steam Jet Air Ejector, Unit 2)

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ATTACHMENT 5A
ERDADS DATA ACQUISITION
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I. DATA ACQUISITION (continued)

A. (continued)

5. To access data -

- a. Press "CLEAR"
- b. Type in "Pup Unit (1/2)"
- c. Press "EXEC"ute, top of screen will read "Unit change is complete" or "Current Unit is same as entered Unit"
- d. Press "EPIP"
- e. The "PAGE UP" and "PAGE DOWN" keys will cause the following display sequence:

SMD - RG (1/2) - SF (1/2) - RBS - EF (1/2) - SMD

6. To go directly to a screen -

- a. Press "CLEAR"
- b. Type in screen designation, e.g., "RG1"
- c. Press "DISPLAY"

B. Sound-powered Phonetalker - The Sound-powered Phonetalker can be utilized as a primary source of information or as an alternate method to ERDADS.

1. Primary source - status of fans needed for dose assessment: all fans for Unit 1; fans 6, 7, 8, 15, 16 and 17 for Unit 2.



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ATTACHMENT 5A
ERDADS DATA ACQUISITION
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II. ERDADS - COLOR/SYMBOL CONVENTIONS

<u>Color/Symbol</u>	<u>Explanation</u>
Numeric value in white on dark green background	Data value is valid and within the instrument range.
Numeric value blinking (yellow on blue/red on white)	Value may be yellow on blue background (urgent alarm) or red on white background (critical alarm), indicates an alarm setting has been exceeded, the alarm must be acknowledged in the Control Room (operators are unable to acknowledge ERDADS alarms in the Simulator Control Room), the value will continue to blink until acknowledged; the value will continue to update.
"BAD" (blue on white)	Preceded by a numeric value in white on a blue background signifying a suspect value indicating that one or several inputs to this composite point is/are out of instrument range, when all inputs to the point are out of range the word "BAD" replaces the numeric value.
"FAILED"	Point is from a single instrument and the value is out of range.
"NO DATA"	Point does not have input to ERDADS, usually point available on one unit, but not the other.

¹Based on Table 4.1 in the ERDADS Reactor Operator's Manual (8770-12058)



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ATTACHMENT 5B
ERDADS DATA POINTS
(Page 1 of 8)

The following data point descriptions for St. Lucie Plant correspond with the data normally tracked on the plant parameters status board. Consult ERDADS Manual, as necessary, for verification of point IDs, point names or description information.

POINT DESCRIPTION	PT ID	POINT NAME	TYPE CALCULATION	NOTES
Avg. RCS T Hot (HLA and HLB) (deg. F)	QTA541-1/2		Average	This parameter is the average of the "A" and "B" steam generator inlet temperature. It is also referred to as the average hot leg temperature. The individual "A" and "B" hot leg temperatures are derived by choosing between current narrow and wide range sensor values. The choice depends on the current values, qualities and direction of the rates of change of the instrumentation values, as well as two pairs of overlapping switching limits and the most recent range utilized. The outputs from the calculation consist of the choice of range, the associated value and rate of change together with the quality of each.
RCS Pressure WR (psia)	QA0501-1/2	RCS Pressure	Average	This parameter is a Reactor Coolant System (RCS) wide range instrument. It derived from Pressurizer Pressure signals PT1107-2 and PT1108-2 which are linear. These signals are processed by an average with expanded quality algorithm. This function obtains the average of all values with a good status. It also sets the quality of the result based on the number of values with good status, versus the total number of inputs. The possible status values are: <ul style="list-style-type: none"> • Greater than 50% of inputs have good status, result is good. • Only one good value and the total inputs are 3 or more, the result is poor. • When there are no good data values, but there are some with poor or suspect, the result is poor. • The result is suspect for all other cases except all bad, in this case the result is bad.



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ATTACHMENT 5B
ERDADS DATA POINTS
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1/2

POINT DESCRIPTION	PT ID	POINT NAME	TYPE CALCULATION	NOTES
RCS Pressurizer Level (%)	QA0001-1/2	PRZR LVL	Average	<p>This parameter is pressurizer level. It is derived from Pressurizer Level control signals LT1110X-2 and LT1110Y-2 which are linear. These two signals are processed by an average with expanded quality algorithm. This function obtains the average of all values with a good status. It also sets the quality of the result based on the number of values with good status, versus the total number of inputs. The possible status values are:</p> <ul style="list-style-type: none"> • Greater than 50% of all inputs have good status, result is good. • Only one good value and the total inputs are 3 or more, the result is poor. • When there are no good data values, but there are some with poor or suspect, the result is poor. • The result is suspect for all other cases except all bad, in this case the result is bad. <p>The top of the heaters is 73.98 inches above the lower top centerline.</p>
Charging Flow to Regen Hx (GPM)	FT2212-1/2	RCS CHG/MU	N/A	This parameter is reactor coolant system makeup flow. It is converted to engineering units using a linear equation.
Subcooling Margin (deg. F)	QA0005-1/2	Submargin	Minimal	<p>This parameter is derived from eight subcooled values, TMARHEAD-A-1/2, TMARRCS-B-1/2, TMARUR-A-1/2, TMARHEAD-B-1/2, TMARCET-A-1/2, TMARUR-B-1/2, TMARRCS-A-1/2 and TMARCET-B-1/2, which are provided by the Qualified Safety Parameter Display System (QSPDS). They are processed by a signal auctioneering minimum algorithm. This function finds the highest usable data value in a specified group. Each data value of the group and its quality is examined and the following quantities are obtained:</p> <ol style="list-style-type: none"> 1. Lowest usable data value, 2. Point number of the lowest usable data value, 3. Number of usable data values, and 4. Lowest quality of the usable data. <ul style="list-style-type: none"> • For two or more usable data values, the result is the highest usable value and the quality is the lowest quality of the usable data. • For only one usable data value, the result is set to that value and the quality is poor. • For no usable data, the value of the result is set to the highest of all the (bad) data and the quality is bad.

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ATTACHMENT 5B
ERDADS DATA POINTS
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1/2

POINT DESCRIPTION	PT ID	POINT NAME	TYPE CALCULATION	NOTES
Avg. Core Exit Temperature (deg. F)	QA0003-1/2	Temp. Core Ex.	Average	<p>This parameter is derived from 45 Unit 1 detectors, or 56 Unit 2 detectors located just above the upper fuel alignment plate. The Qualified Safety Parameter Display System (QSPDS) provides the values. They are processed by an average with expanded quality algorithm. This function obtains the average of all values with a good status. It also sets the quality of the result based on the number of values with good status, versus the total number of inputs. The possible status values are:</p> <ul style="list-style-type: none"> • Greater than 50% of all inputs have good status, result is good. • Only one good value and the total inputs are 3 or more, the result is poor. • When there are no good data values, but there are some with poor or suspect, the result is poor. • The result is suspect for all other cases except all bad, in this case the result is bad.
Reactor Vessel Level (%)	Unit 1: QA0004-1 Unit 2: RLEV H-2 RLEV P-2		Minimum	<p>The reactor vessel level for Unit 1 QA0004-1 is derived from the reactor vessel levels RLEV-A-1 and RLEV-B-1 which are provided by the Qualified Safety Parameter Display System. The ERDADS select the lowest of the two values. For only one good data value, the result is set to that value and the quality is poor.</p> <p>The reactor vessel level for Unit 2 is displayed as reactor plenum level RLEVPB-2 and reactor head level RLEVHB-2 which is provided by the "B" side Qualified Safety Parameter Display System (QSPDS). These two parameters are displayed with no calculations being performed by the ERDADS computer system.</p> <p>The QSPDS obtains these values from the heated and unheated junction thermocouples located inside the reactor. They are positioned between the head and upper fuel alignment plate in the reactor internals.</p>

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ATTACHMENT 5B
ERDADS DATA POINTS
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POINT DESCRIPTION	PT ID	POINT NAME	TYPE CALCULATION	NOTES
HPSI Total Flow (GPM)	HSITTLF-1/2	HPSI Flow	Sum	This parameter measures total HPSI flow and is derived from HPSI Header Flow signals FT3311-1/2, FT3321-1/2, FT3331-1/2 and FT3341-1/2 which are square roots. The signals are processed with a sum of inputs algorithm. This function obtains the algebraic sum of values with a good status.
LPSI Total Flow (GPM)	QA0908-1/2	LPSI Flow	Sum	This parameter measures total LPSI flow and is derived from LPSI Header Flow signals FT3312-1/2, FT3322-1/2, FT3332-1/2 and FT3342-1/2 which are square roots. These signals are processed by an algorithm which provides a sum of the inputs. This function obtains the algebraic sum of values with a good status.
Containment Temp. (deg. F)	TE07-3B-1/2	Cntmnt Temp	N/A	This parameter is a containment temperature instrument. It is converted to engineering units using a linear equation.
Containment Pressure WR (psig)	QA0507-1/2	Cntmnt Press	Average	This parameter measures containment pressure and is a wide range indicator. It is derived from Wide Range Containment Pressure signals PT07-4A1-1/2 and PT07-4B1-1/2 which are linear. They are processed by an average with expanded quality algorithm. This function obtains the average of all values with a good status. It also sets the quality of the result based on the number of values with good status, versus the total number of inputs. The possible status values are: <ul style="list-style-type: none"> • Greater than 50% of all inputs have good status, result is good. • Only one good value and the total inputs are 3 or more, the result is poor. • When there are no good data values, but there are some with poor or suspect, the result is poor. • The result is suspect for all other cases except all bad, in this case the result is bad.

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1/2

ATTACHMENT 5B
ERDADS DATA POINTS
(Page 6 of 8)

POINT DESCRIPTION	PT ID	POINT NAME	TYPE CALCULATION	NOTES
Containment Sump Level WR (Ft.)	QA0008-1/2	Cntmnt Smp WR	Maximum	<p>This parameter is a containment sump wide range instrument. It is derived from Containment Sump Level signals LT07-13-A-1/2 and L007-13B-1/2 which are linear. They are processed by a signal auctioneering maximum algorithm. This function finds the highest usable data value in the specified group. Each data value of the group and its quality is examined and the following rules are used.</p> <ul style="list-style-type: none"> • For two or more usable data values, the result is the highest usable data value and the quality is the lowest quality of the usable data. • For only one usable data value, the result is set to that value and the quality is poor. • For no usable data, the value of the result is set to the highest of all the (bad) data and the quality is bad.
Containment Hydrogen (%)	CH2-1/2	H2 Conc.	Average	<p>This parameter is a containment hydrogen average concentration measurement. It is derived from Hydrogen Concentration signals A-HYDROGEN-1/2 and B-HYDROGEN-1/2 which are linear. These signals are processed by an average with expanded quality algorithm. This function obtains the average of all values with a good status. It also sets the quality of the result based on the number of values with good status, versus the total number of inputs. The possible status values are:</p> <ul style="list-style-type: none"> • Greater than 50% of all inputs have good status, result is good. • Only one good value and the total inputs are 3 or more, the result is poor.
SG Level A WR (%)	LT9012-1/2	SG Level A	N/A	<p>This parameter is the "A" steam generator wide range level instrument. It is converted to engineering units using a linear equation. LTCL = Lower Tap Center Line. The lower tap is 19.5 inches above the bottom of the U tubes.</p>
SG Level B WR (%)	LT9022-1/2	SG Level B	N/A	<p>This parameter is the "B" steam generator wide range level instrument. It is converted to engineering units using a linear equation. LTCL = Lower Tap Center Line. The lower tap is 19.5 inches above the bottom of the U tubes.</p>

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**ATTACHMENT 5B
ERDADS DATA POINTS**

(Page 7 of 8)

POINT DESCRIPTION	PT ID	POINT NAME	TYPE CALCULATION	NOTES
SG Pressure A (psig)	QA0021-1/2	SG Pres/A	Redundant Sensor Algorithm	This parameter is the "A" steam generator pressure. It is derived from three Steam Generator Pressure Signals, PT8013A-1/2, PT8013B-1/2 and PT8013C-1/2, which are linear. These signals are processed by a redundant sensor algorithm. This function obtains the average of the current values that have a good status and are close to the statistical majority.
SG Pressure B (psig)	QA0022-1/2	SG Pres/B	Redundant Sensor Algorithm	This parameter is the "B" steam generator pressure. It is derived from three Steam Generator Pressure Signals, PT8023A-1/2, PT8023B-1/2 and PT8023D-1/2, which are linear. These signals are processed by a redundant sensor algorithm. This function obtains the average of the current values that have a good status and are close to the statistical majority.
Refueling Water Tank Avg. Level (Ft.)	RWTAL-1/2	BWST Level	Average	<p>This parameter measures refueling water tank level. It is derived from three inputs. They are LT07-2A-1/2, LT07-2B-1/2 and LT07-2C-1/2. These points are processed by an average with expanded quality algorithm. This function obtains the average of all values with a good status. It also sets the quality of the result based on the number of values with good status, versus the total number of inputs. The possible status values are:</p> <ul style="list-style-type: none"> • Greater than 50% of all inputs have good status, result is good. • Only one good value and the total inputs are 3 or more, the result is poor. • When there are no good data values, but there are some with poor or suspect, the result is poor. • The result is suspect for all other cases except all bad, in this case the result is bad. <p>Tank bottom refers to zero gallons.</p>

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ATTACHMENT 5B
ERDADS DATA POINTS
(Page 8 of 8)

POINT DESCRIPTION	PT ID	POINT NAME	TYPE CALCULATION	NOTES
CHRRM. Channel (R/HR)	Unit 1:	Cntmnt. Rad	Maximum	The high containment radiation instruments for Unit 1 are the "A" side monitor RE 26-58-1 and the "B" side monitor RE 26-59-1. These monitors are only range checked and flagged bad if out of range. Both detectors are located at the 90 foot containment elevation and are positioned at 0 and 180 degrees.
	RE 26-58-1 (A Channel)			
	RD 26-59-1 B Channel)			
	Unit 2:			
	RIM 26-40-2 (A Channel)			The high containment radiation instruments for Unit 2 are the "A" side monitor RIM 26-40-2 and the "B" side monitor RIM 26-41-2. These monitors are only range checked and are flagged bad if out of range. Both detectors are located at the 90 foot containment elevation and are positioned at 0 and 180 degrees.
	RIM 26-41-1 (B Channel)			

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ATTACHMENT 6
TSC ADMINISTRATIVE STAFF CHECKLIST
(Page 1 of 3)

<u>NOTE</u> When necessary or appropriate, steps of this checklist may be performed out of sequence.
--

- | | | |
|----|--|-----------------------|
| A. | <u>FACILITY ACTIVATION</u> | <u>INITIAL</u> |
| | 1. Refer to Section 5 of this procedure (included in the position notebook) and review the general instructions. | _____ |
| | 2. Using Controlled Copy 5, post all EPIP revision numbers on the status board. | _____ |
| | 3. Telecopy the EC Log, completed notification forms and checklists, and any other pertinent information to the EOF. | _____ |

B. **FACILITY OPERATION**

<u>NOTE</u> Information should be updated every 15-30 minutes and not longer than 60 minutes.

1. Synchronize the facility clock(s) with ERDADS. In case of ERDADS failure, synchronize with the affected Control Room.
2. Steps to occur continually while the facility is in operation:
 - a. Obtain the following ERDADS data sheets (printouts) from the ERDADS Operator:
 1. Safety Functions Equipment Status (SF 1/2).
 2. Radioactive Gaseous Source Terms (RG 1/2).
 - b. Update status boards with new ERDADS data.
 - c. Verify all data has been accurately transferred to the status board.



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ATTACHMENT 6
TSC ADMINISTRATIVE STAFF CHECKLIST
(Page 2 of 3)

B. (continued)

INITIAL

2. (continued)

- d. Update the sequence of events board following each facility briefing and as needed. Provide relevant information concerning items such as:
 - 1. Change in classification.
 - 2. Significant change in plant condition.
 - 3. Status of plant system(s) of concern.
 - 4. Injured personnel status.
 - 5. Other items of relevant interest.
- e. Update dose assessment and field monitoring data as information is provided by Chemistry and HP, respectively.
- f. Make corrections, when identified, by circling the corrected data.
- g. When all status board columns/blanks are filled, erase the first two columns/blanks, enter new data with a different colored marker leaving a space between the new and the old data.
- h. Provide any incoming telecopy materials to the TSC Supervisor or as designated on the cover page.

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ATTACHMENT 6
TSC ADMINISTRATIVE STAFF CHECKLIST
(Page 3 of 3)

C. FACILITY CLOSEOUT AND RESTORATION INITIAL

NOTE
All paperwork completed in the position notebook should remain in the position notebook.

1. Status boards have been cleaned and returned to preactivation condition. _____
2. Provided all completed paperwork to the TSC Supervisor. _____
3. Returned position notebook to storage cabinet. _____

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ATTACHMENT 7
TSC COORDINATOR WITH OSC CHECKLIST
(Page 1 of 2)

NOTE When necessary or appropriate, steps of this checklist may be performed out of sequence.

/R4

A. FACILITY ACTIVATION INITIAL

1. Refer to Section 5 of this procedure (included in the position notebook) and review the general instructions. _____

B. FACILITY OPERATION

1. Establish contact with the OSC Coordinator with the TSC (in the OSC). _____
2. Steps to occur continually while the facility is in operation:
- a. Ensure all requests for re-entry activities are documented on Attachment 7A, Re-entry/SAMG Worksheet.
 - b. Ensure all re-entry requests have been approved and prioritized by the EC.
 - c. Track all requests for Re-entry Teams using Attachment 7B, Re-entry Log.
 - d. Communicate re-entry requests to the OSC Coordinator with the TSC per Attachment 7B, Re-entry Log.
 - e. Update the OSC Status Board with Re-entry Team information.

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ATTACHMENT 7
TSC COORDINATOR WITH OSC CHECKLIST
 (Page 2 of 2)

C. FACILITY CLOSEOUT AND RESTORATION INITIAL

NOTE

All paperwork completed in the position notebook should remain in the position notebook.

1. Closed out all Re-entry Teams entered in the Re-entry Team Log and the status board. _____
2. Status board has been cleaned and returned to preactivation condition. _____
3. All paperwork completed and provided to the TSC Supervisor. _____
4. Returned position notebook to storage cabinet. _____

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ATTACHMENT 7A
RE-ENTRY WORKSHEET
(Page 1 of 5)

NOTE

This worksheet is used for the following:

- Requesting Re-entry Team dispatch from the Operational Support Center (OSC).
- Requesting Engineering Support from the Emergency Operations Facility (EOF).
- Providing SAMG directives to the Control Room(s) (CR(s)).

1. Describe the nature of the request in Section 1.
2. The PST Leader should determine if the request is complex such that it needs the PST for review and development.
 - A. If the PST does NOT need to review the request, Then COMPLETE only Section 1 and Section 5.
 - B. If PST does need to review the request, Then COMPLETE all sections.

Section 1

DESCRIBE the Problem/Concern/Request:

(ATTACH ADDITIONAL PAGES IF REQUIRED)

Originated by: _____ Date: ___/___/___

Section 2

1. PST Leader ASSIGN a PST team member to fill out the following Assessment/Review:

(ATTACH ADDITIONAL PAGES IF REQUIRED)



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ATTACHMENT 7A
RE-ENTRY WORKSHEET
(Page 2 of 5)

INITIAL

Section 2 (continued)

- If the PST shall develop the recommendation/response, Then FILL IN the Recommendation/Response

(ATTACH ADDITIONAL PAGES IF REQUIRED)

Section 3

If EOF assistance is determined to be required, Then the PST Leader shall perform the following:

- SEND the Attachment 7A to the EOF (verbal and/or fax) _____
- RETURN the EOF recommendation/response to the PST for review and appropriate action. _____
- REVIEW and APPROVE PST recommendation/response. _____
- Signature _____ Date/Time: _____

Section 4

If the actions are SAMG related, Then the PST Leader shall ASSIGN a SAMG tracking number and POST the task on the PST SAMG White board.

SAMG Sequence number: SAMG- _____ _____ PST



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ATTACHMENT 7A
RE-ENTRY WORKSHEET
(Page 3 of 5)

INITIAL

Section 5

The following instructions are required for Emergency Coordinator task approval:

NOTE

50.59 Screening is required for any alterations of systems, structures or components. Actions that are outside of design basis shall require implementation of ADM-17.06, Invoking 10 CFR 50.54(x) and (y).

1. If requested tasks are NOT routine or covered by existing plant procedures, Then PERFORM 50.59 Screening on the tasks and any attached instructions in accordance with ADM-17.11. _____
PST

2. The Emergency Coordinator shall consider the following questions in the review for task approval (EC initials required):
 - A. Do these actions affect the margin of nuclear safety of the unaffected unit that has NOT been addressed? _____
 - B. Are the instructions clear and easy to understand? _____
 - C. Are all referenced components and systems properly identified and labeled? _____
 - D. Have appropriate Engineering reviews been performed to avoid unintentional operation of systems outside design characteristics? _____
 - E. Do steps, that have operating parameters specified, contain operating bands? _____

NOTE

- CONSULT the TSC Ops Coordinator for 10 CFR 50.54(x) SRO evaluation.
- During Severe Accident events, where 10 CFR 50.54(x) has been invoked at the entry of the SAMGs, alterations affecting the non-affected unit's hardware, structures, systems or components, outside of design basis, shall require separate ADM-17.06 invocations.

- F. If implementation of 10 CFR 50.54(x) is required, Then IMPLEMENT ADM-17.06, Invoking 10 CFR 50.54(x) and (y). _____

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**ATTACHMENT 7A
RE-ENTRY WORKSHEET**
(Page 4 of 5)

INITIAL

Section 5 (continued)

2. (continued)

G. Approval:

- Approved as written.
- Approved with the following corrections:

CAUTION

Priorities are set based on the urgency of the task and by considering resources available (NOT everything is or can be priority 0).

0 = Dispatch Team in less than 5 minutes (fire, injury or certain operator actions)

1 = Dispatch Team in less than 15 minutes (Emergency Coordinator top priority)

2 = Dispatch Team in less than 30 minutes (routine re-entries)

- Priority

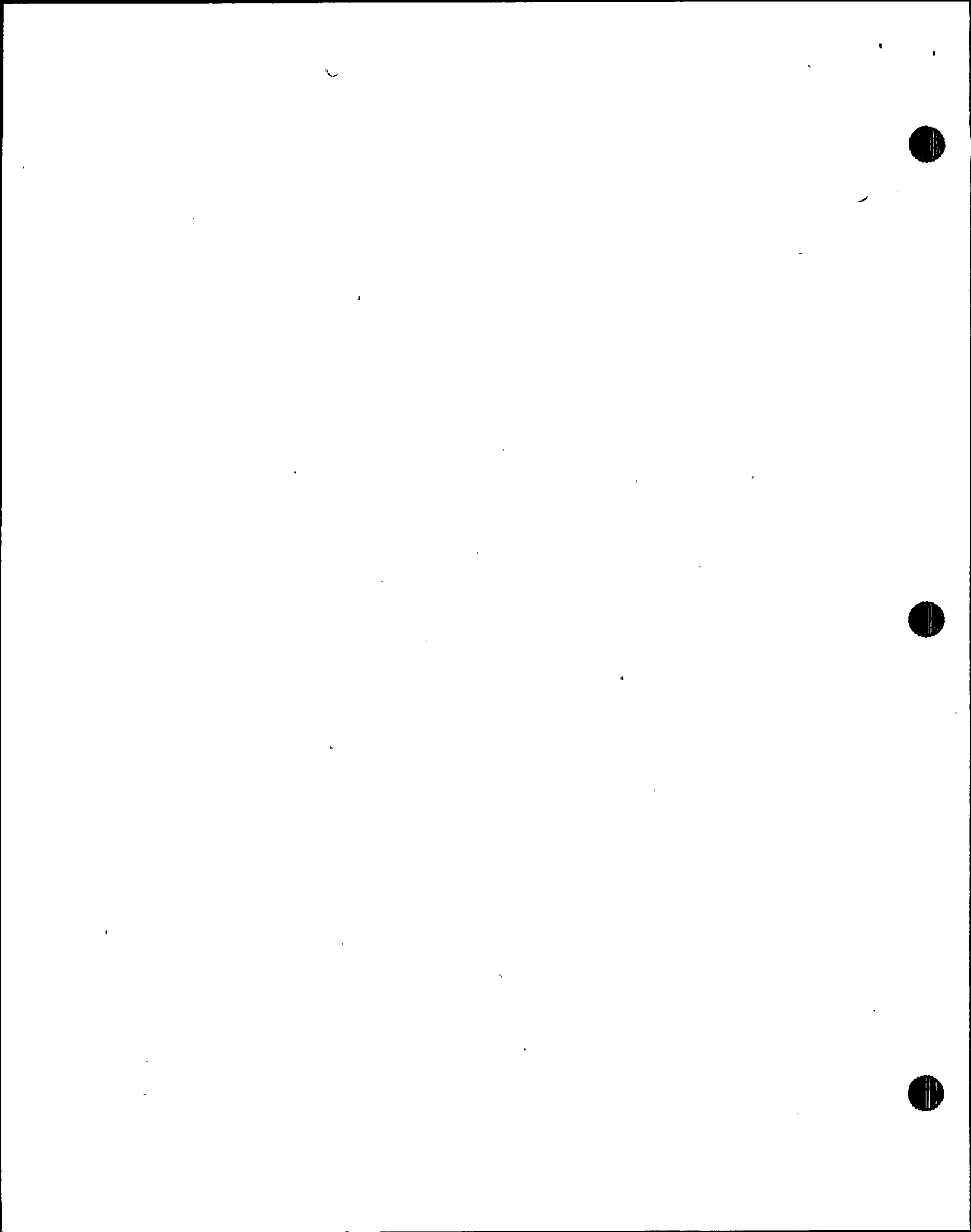
Signature _____ Date/Time: _____
Emergency Coordinator

3. FORWARD the Attachment 7A to the applicable communicator:

A. If the task is specifically for the OSC, Then the TSC Coordinator with OSC shall PERFORM the following:

1. ASSIGN a task description: _____
2. COMPLETE Re-entry Log entry _____
3. COMMUNICATE the task to the OSC _____

Time call
complete



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ATTACHMENT 7A
RE-ENTRY WORKSHEET
(Page 5 of 5)

INITIAL

Section 5 (continued)

3. (continued)

B. If the task is specifically for Operations, Then the TSC Ops Coordinator shall PERFORM the following:

1. COMMUNICATE the task instructions to the required Control Room(s). _____
2. If OSC concurrent Re-entry actions are required, Then ORIGINATE a new Re-entry/SAMG Worksheet form for this purpose. _____

4. RETURN the form to the originator named in Section 1.

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ATTACHMENT 7B
RE-ENTRY LOG
(Page 1 of 1)

RE-ENTRY TASK REQUEST	RE-ENTRY TEAM ASSIGNMENT
Complete this section with information from the Re-entry Worksheet and transfer to OSC.	OSC Coordinator with TSC should provide this information once completed by the OSC Supervisor.
A. Task Description: _____	G. Team No.: _____
B. *Priority _____ C. Time _____	H. Title: _____
D. Reason for request: _____	I. Re-entry Supv.: _____
E. Info contact: _____	J. Time out: _____ K. Time in: _____
F. Phone: _____	L. Comments: _____
A. Task Description: _____	G. Team No.: _____
B. *Priority _____ C. Time _____	H. Title: _____
D. Reason for request: _____	I. Re-entry Supv.: _____
E. Info contact: _____	J. Time out: _____ K. Time in: _____
F. Phone: _____	L. Comments: _____
A. Task Description: _____	G. Team No.: _____
B. *Priority _____ C. Time _____	H. Title: _____
D. Reason for request: _____	I. Re-entry Supv.: _____
E. Info contact: _____	J. Time out: _____ K. Time in: _____
F. Phone: _____	L. Comments: _____
A. Task Description: _____	G. Team No.: _____
B. *Priority _____ C. Time _____	H. Title: _____
D. Reason for request: _____	I. Re-entry Supv.: _____
E. Info contact: _____	J. Time out: _____ K. Time in: _____
F. Phone: _____	L. Comments: _____
A. Task Description: _____	G. Team No.: _____
B. *Priority _____ C. Time _____	H. Title: _____
D. Reason for request: _____	I. Re-entry Supv.: _____
E. Info contact: _____	J. Time out: _____ K. Time in: _____
F. Phone: _____	L. Comments: _____

*0 = Dispatch in less than 5 minutes (e.g., fire, injury, or certain Operator Actions)
 1 = Dispatch in less than 15 minutes (e.g., Emergency Coordinator top priority)
 2 = Dispatch in less than 30 minutes (e.g., routine re-entries)

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ATTACHMENT 8
TSC OPS COORDINATOR CHECKLIST
(Page 1 of 3)

NOTE

1. This position is filled by two persons, one located in the affected Control Room, the other in the TSC. The position in the Control Room is also known as the NPS Communicator.
2. When necessary or appropriate, steps of this checklist may be performed out of sequence.

A. FACILITY ACTIVATION

INITIAL

NOTE

The first person to arrive at the TSC should report to the affected Control Room to relieve the Duty Call Supervisor.

1. Filling position in: _____
2. (TSC position only) Refer to Section 5 of this procedure (included in the position notebook) and review the general instructions. _____

B. FACILITY OPERATION

1. Establish communications with counterpart. _____
2. Initiate the OPS Logbook. (TSC only) _____
3. Steps to occur continually while the facility is in operation:

TSC

- a. Provide expertise in plant operations to the EC.
- b. Maintain communication flow between the TSC and the affected Control Room concerning status of operations.
- c. Maintain OPS Logbook.

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ATTACHMENT 8
TSC OPS COORDINATOR CHECKLIST
(Page 2 of 3)

B. (continued)

INITIAL

3. (continued)

d. Severe Accident Management Guidelines (SAMG) actions

1. Perform evaluations in accordance with ADM-17.09, Invoking 10 CFR 50.54(x), as needed.
2. Review/approve actions as outlines in Attachment 7A, Re-entry/SAMG Worksheet.
3. Communicate SAMG actions to the affected Control Room(s).

Control Room

- a. Provide communications assistance to the NPS.
- b. Monitor procedure use and keep the TSC informed.
- c. Investigate questions/concerns as requested by the TSC.
- d. Update the unaffected unit's Control Room with emergency status.
- e. Gather Severe Accident Management Guidelines (SAMG) instructions/information from the TSC OPS Coordinator.
 1. If the TSC is unable to telecopy, Then use Attachment 7A, Re-entry/SAMG Worksheet to record SAMG instructions/information.
- f. Communicate SAMG actions to the NPS.
- g. Provide feedback to the TSC OPS Coordinator regarding SAMG actions.

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ATTACHMENT 8
TSC OPS COORDINATOR CHECKLIST
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INITIAL

C. FACILITY CLOSEOUT AND RESTORATION

NOTE
All paperwork completed in the position notebook should remain in the position notebook.

1. Phone connection terminated. _____
2. Closed out the OPS Logbook. _____
3. Returned position notebook to storage cabinet. _____
4. Provided all completed paperwork to the TSC Supervisor. _____



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ATTACHMENT 9
TSC REACTOR ENGINEER CHECKLIST
(Page 1 of 3)

<p><u>NOTE</u> When necessary or appropriate, steps in this checklist may be performed out of sequence.</p>
--

- | | |
|--|--|
| <p>A. <u>FACILITY ACTIVATION</u></p> <p>1. Refer to Section 5 of this procedure (included in the position notebook) and review the general instructions.</p> <p>B. <u>FACILITY OPERATION</u></p> <p>1. In coordination with the Shift Technical Advisor (STA), establish the ERDADS link with the NRC Emergency Response Data System (ERDS) (use Attachment 9A, Initiating and Terminating the ERDS Link).</p> | <p><u>INITIAL</u></p> <p>_____</p> <p>_____</p> |
|--|--|

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ATTACHMENT 9
TSC REACTOR ENGINEER CHECKLIST
(Page 2 of 3)

B. (continued)

INITIAL

2. Steps to occur continually while the facility is in operation:

CAUTION

Be aware of the following conditions. These initiating conditions are associated with Emergency Actions Levels (EALs) used in the classification of emergencies (EPIP-01, Classification of Emergencies). The Emergency Coordinator needs to know if any of these conditions exist.

1. Dose Equivalent Iodine (DEQ) I-131 activity greater than 275 $\mu\text{Ci/ml}$.
2. CHHRM readings greater than $7.3\text{E}+03$ R/hr OR greater than $1.46\text{E}+05$ R/hr.
3. Post LOCA Monitor readings greater than 100 mR/hr OR greater than 1000 mR/hr.
4. Step increase in radiation monitor readings in the Plant Vent and/or Fuel Handling Building.
5. Loss of subcool margin resulting in saturated conditions.
6. Highest Core Exit Thermocouple (CET) per core quadrant indicates greater than 10°F superheat or 700°F .
7. Damage to more than one irradiated fuel assembly.
8. Uncovering of one or more irradiated fuel assemblies in the Spent Fuel Pool.

- a. Monitor critical plant parameters for indications of core status.
- b. Assist Nuclear Fuels personnel in the EOF in the assessment of core damage in accordance with EPIP-11, Core Damage Assessment.
- c. Assist the STA with core monitoring functions and STA support functions.
- d. Assist in Severe Accident Management Guidelines (SAMG) activities as a SAMG Evaluator.



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ATTACHMENT 9
TSC REACTOR ENGINEER CHECKLIST
 (Page 3 of 3)

C. FACILITY CLOSEOUT AND RESTORATION

INITIAL

NOTE

All paperwork completed in the position notebook should remain in the position notebook.

1. Core damage assessment activities terminated. _____
2. Returned position notebook to storage cabinet. _____
3. All completed paperwork provided to the TSC Supervisor. _____



REVISION NO.: 4	PROCEDURE TITLE: ACTIVATION AND OPERATION OF THE TECHNICAL SUPPORT CENTER	PAGE: 71 of 84
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ATTACHMENT 9A
INITIATING AND TERMINATING THE ERDS LINK
(Page 1 of 2)

This attachment provides the instructions for initiating and terminating the communications link between the St. Lucie Emergency Response Data Acquisition and Display System (ERDADS) and the NRC Emergency Response Data System (ERDS). This communications link must be activated not later than one hour after declaring an emergency class of ALERT or higher. If communications cannot be established then the accepted method of data transmission to the NRC will be through the Emergency Notification System (ENS).

INITIATING the ERDS communication link:

1. At any TSC ERDADS terminal clear the display screen by depressing the CLEAR key.
2. Log on to ERDADS by typing in PSW ## XXXXXXXX (the Xs stand for the password issued to Operations Support Engineering). Then depress the EXEC key.
3. Clear the screen with the CLEAR key and select the desired St. Lucie Unit by typing PUP UNIT X (the X will be either a 1 or 2 depending on the unit). Then depress the EXEC key.
4. Clear the screen by depressing the CLEAR key and type in ERD and depress the DSPLY key. This will display the ERDS link control picture on the terminal.
5. Depress the TAB + keys to place the cursor on the INITIATE action bar and then depress the ENTER key. The depressing of the ENTER key will initiate the communications link to the NRC ERDS.
6. After the communication link with the NRC ERDS has been established clear the terminal screen by depressing the CLEAR key and log off by typing in PSW 0 and depressing the EXEC key. The logging off of the terminal's screen will allow that terminal to be used in obtaining information for TSC activities without affecting the communication link with the NRC ERDS.
7. Periodically check the status of the ERDS link by typing in HLX (the X will be a 2 for Unit 1 or 3 for Unit 2) and depress the DSPLY key.

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ATTACHMENT 9A
INITIATING AND TERMINATING THE ERDS LINK
(Page 2 of 2)

NOTE

- If the blinking message NOTIFY THE NRC appears after the CURRENT STATUS then the communications link has been lost and a reconnection is necessary when the NRC requests it through the established voice connection in the TSC. If this happens then it will be necessary to reinitiate the communications link beginning with step 1.
- Generally the ERDS link will be terminated by the NRC. The following steps are to be used if the link needs to be terminated from the TSC.

TERMINATING the ERDS communication link:

1. At any TSC ERDADS terminal clear the display screen by depressing the CLEAR key.
2. Log on to ERDADS by typing in PSW ## XXXXXXXX (the Xs stand for the password issued to Operations Support Engineering). Then depress the EXEC key.
3. Clear the screen with the CLEAR key and select the desired St. Lucie Unit by typing PUP UNIT X (the X will be either a 1 or 2 depending on the unit). Then depress the EXEC key.
4. Clear the screen by depressing the CLEAR key and type in ERD and depress the DSPLY key. This will display the ERDS link control picture on the terminal.
5. Depress the TAB - keys to place the cursor on the TERMINATE action bar and then depress the ENTER key. The depressing of the ENTER key will terminate the communications link to the NRC ERDS.
6. After the communication link with the NRC ERDS has been terminated clear the terminal screen by depressing the CLEAR key and log off by typing in PSW 0 and depressing the EXEC key.



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ATTACHMENT 10
TSC CHEMISTRY SUPERVISOR CHECKLIST
(Page 1 of 3)

<p><u>NOTE</u> When necessary or appropriate, steps in this checklist may be performed out of sequence.</p>
--

A. <u>FACILITY ACTIVATION</u>	<u>INITIAL</u>
1. Refer to Section 5 of this procedure (included in the position notebook) and review the general instructions.	_____

B. <u>FACILITY OPERATION</u>	
1. Initiate the Chemistry Logbook.	_____
2. Steps to occur continually while the facility is in operation:	

<p><u>NOTE</u> Dose assessment shall be a primary responsibility of the EOF once it becomes operational.</p>

- a. Supervise dose assessment activities.
- b. Review all dose projection printouts.
- c. Advise the EC of dose projection results.
- d. Assist the EC in evaluating off-site dose estimates for PARs.
- e. Provide technical support to the OSC Supervisor.



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ATTACHMENT 10
TSC CHEMISTRY SUPERVISOR CHECKLIST
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B. (continued)

CAUTION

Be aware of the following conditions. These initiating conditions are associated with Emergency Action Levels (EALs) used in the classification of emergencies (EPIP-01, Classification of Emergencies). The Emergency Coordinator needs to know if any of these conditions exist.

1. Dose Equivalent Iodine (DEQ) I-131 activity greater than 275 $\mu\text{Ci/ml}$.
2. Result of analysis of a gaseous or liquid release is greater than ten (10) times the ODCM limit.
3. CHHRM readings greater than 7.3E+03 R/hr OR greater than 1.46E+05 R/hr.
4. Post LOCA Monitor readings greater than 100 mR/hr OR greater than 1000 mR/hr.
5. Step increase in radiation monitor readings in the Plant Vent and/or Fuel Handling Building.
6. Off-site dose calculation worksheet values at one (1) mile in excess of 50 mrem/hr (total dose - TEDE) or 250 mrem/hr (thyroid dose - CDE) for one half (1/2) hour OR 500 mrem/hr (total dose - TEDE) or 2500 mrem/hr (thyroid dose - CDE) for two (2) minutes.
7. Off-site dose calculation worksheet values indicate site boundary (one (1) mile) exposure levels have been exceeded as indicated by any of the following:
 - a. 1000 mrem/hr (total dose rate)
 - b. 1000 mrem (total dose - TEDE)
 - c. 5000 mrem/hr (thyroid dose rate)
 - d. 5000 mrem (thyroid dose - CDE)

- f. Advise the EC on plant chemistry related matters.
- g. Maintain chronological log of activities.
- h. Review and verify radiological and protective action information entered on status boards.

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ATTACHMENT 10
TSC CHEMISTRY SUPERVISOR CHECKLIST
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C. FACILITY CLOSEOUT AND RESTORATION

INITIAL

NOTE

All paperwork completed in the position notebook should remain in the position notebook.

- | | |
|---|-------|
| 1. Dose assessment activities terminated. | _____ |
| 2. Closed out the Chemistry Logbook. | _____ |
| 3. Returned position notebook to storage cabinet. | _____ |
| 4. All paperwork provided to the TSC Supervisor. | _____ |

REVISION NO.: 4	PROCEDURE TITLE: ACTIVATION AND OPERATION OF THE TECHNICAL SUPPORT CENTER	PAGE: 76 of 84
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ATTACHMENT 11
TSC DOSE ASSESSOR CHECKLIST
(Page 1 of 2)

NOTE
When necessary or appropriate, steps in this checklist may be performed out of sequence.

A. FACILITY ACTIVATION INITIAL

1. Refer to Section 5 of this procedure (included in the position notebook) and review the general instructions. _____

B. FACILITY OPERATION

NOTE

1. Initial operating instructions for use of the Class A Model are provided in EPIP-09, Off-site Dose Calculations.

2. If the computerized Class A Model is not available, dose projections shall be performed in accordance with EPIP-09.

1. Ensure all previous dose calculation paperwork is sent to the EOF. _____
2. Establish communication link with the EOF Dose Assessor. _____
3. Complete Class A Model QC Check. _____
4. Steps to occur continually while the facility is in operation:
 - a. Obtain input data for the Class A Model from the ERDADS Operator (RG 1/2 Screen).
 - b. Report dose projection results to the TSC Chemistry Supervisor.
 - c. Coordinate dose assessment with the EOF.

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ATTACHMENT 11
TSC DOSE ASSESSOR CHECKLIST
(Page 2 of 2)

B. (continued)

INITIAL

4. (continued)

d. Provide status board update information to the TSC Administrative Staff (use Attachment 11A and Attachment 11B).

1. Using carbon paper make a copy as data is entered into the form in either Attachment 11A or 11B. Retain the original, provide the copy to the TSC Administrative Staff to update the status boards.

C. FACILITY CLOSEOUT AND RESTORATION

NOTE

All paperwork completed in the position notebook should remain in the position notebook.

1. Dose projection activities terminated. _____
2. EOF communications linked terminated. _____
3. All documents, equipment and supplies returned to preactivation condition and/or location. _____
4. All paperwork collected. _____
5. Returned position notebook to storage cabinet. _____
6. Provided all completed paperwork to the TSC Chemistry Supervisor. _____



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ATTACHMENT 11A
OFF-SITE RADIOLOGICAL ASSESSMENT
(Page 1 of 1)

OFFSITE DOSE RADIOLOGICAL ASSESSMENT STATUS AND TRENDS									
PARAMETER	Unit	Highest Downwind Sector Dose Rates							
Day # of Month									
Time of Day	2400								
Downwind Sectors									
Dose Rate @		TEDE	CDE	TEDE	CDE	TEDE	CDE	TEDE	CDE
1 mile	mRem/hr								
2 miles	mRem/hr								
5 miles	mRem/hr								
10 miles	mRem/hr								
Wind Direction at 10 meter elev	Degrees								
Downwind Sector									
Wind Speed at 10 meter elev	mph								
60 meter - 10 meter delta T	Deg F								
Stability Class									
10 meter Temperature	Deg F								
Noble Gas Rel Rate	Ci/sec								
Iodine Rel Rate	Ci/sec								
Noble Gas Total Ci	Ci								
Iodine Total Ci	Ci								
Contain Hi Range	R/hr								
_____ Vent	Ci/sec								
ECCS A	Ci/sec								
ECCS B	Ci/sec								
Main Steam A	mR/hr								
Main Steam B	mR/hr								

TEDE = Total Dose CDE = Thyroid Dose

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ATTACHMENT 11B
PROTECTIVE ACTION RECOMMENDATIONS
(Page 1 of 1)

PROTECTIVE ACTION RECOMMENDATIONS			
REASON: ISSUED BY:		DATE/TIME:	
		S = SHELTER E = EVACUATE	
SECTOR	0 - 2 Miles	2 - 5 Miles	5 - 10 Miles
A (N)			
B (NNE)			
C (NE)			
D (ENE)			
E (E)			
F (ESE)			
G (SE)			
H (SSE)			
J (S)			
K (SSW)			
L (SW)			
M (WSW)			
N (W)			
P (WNW)			
Q (NW)			
R (NNW)			

ADDITIONAL COMMENTS: _____



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ATTACHMENT 12
TSC PROBLEM SOLVING TEAM CHECKLIST
(Page 1 of 2)

NOTE

1. This checklist applies to the following Problem Solving Team (PST) positions:

TSC PST Leader Engineering
TSC Elec Rep - PST TSC I&C Rep - PST
TSC Mech Rep - PST (3) TSC SRO Rep - PST

2. When necessary or appropriate, steps of this checklist may be performed out of sequence.

A. FACILITY ACTIVATION **INITIAL**

1. Refer to Section 5 of this procedure (included in the position notebook) and review the general instructions. _____

B. FACILITY OPERATION

NOTE

1. Refer to the Document Control Index for a listing of Tech Manuals available in the TSC.

2. The computer provides a LAN connection and access to the Total Equipment Database (TEDB).

1. Steps to occur continually while the facility is in operation:
- a. Problem Solving Team Leader
1. Maintain command and control of all PST activities.
 2. Ensure all PST members are aware of and understand the status of equipment.
 3. Maintain high level of inquiry and investigation by all PST members.
 4. Tack progress of all Re-entry/SAMG Worksheets (Attachment 7A) given to or initiated by the PST.



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ATTACHMENT 12
TSC PROBLEM SOLVING TEAM CHECKLIST
(Page 2 of 2)

B. FACILITY OPERATION (continued)

INITIAL

1. (continued)
 - a. (continued)
 5. Encourage development of multiple success paths.
 6. Review all Re-entry/SAMG Worksheets (Attachment 7A).
 - b. Problem Solving Team Member
 1. Participate as a member of the Problem Solving Team by providing technical support in your area of expertise.
 2. Evaluate system and equipment failures.
 3. Propose mitigative and corrective action(s) as promptly as possible.
 4. Document recommendations on a form similar to Attachment 7A, Re-entry/SAMG Worksheet.
 5. Serve as a Severe Accident Management Guidelines (SAMG) Evaluator.
 6. Provide all recommendations to the EC.

C. FACILITY CLOSEOUT AND RESTORATION

NOTE

All paperwork completed in the position notebook should remain in the position notebook.

1. Returned all documents, equipment and supplies to preactivation condition and/or location. _____
2. Returned position notebook to storage cabinet. _____
3. Provided all completed paperwork to the TSC Supervisor. _____

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ATTACHMENT 13
TSC SECURITY SUPERVISOR CHECKLIST
(Page 1 of 3)

NOTE When necessary or appropriate, steps of this checklist may be performed out of sequence.

A. FACILITY ACTIVATION INITIAL

NOTE This position is normally filled by the on-shift Security Shift Specialist.
--

1. Refer to Section 5 of this procedure (included in the position notebook) and review the general instructions. _____
2. Verify that the Energy Encounter has been notified of the emergency. (consult the ERD for the phone number) _____

B. FACILITY OPERATION

1. Establish access control for the TSC. _____
2. Contact the Control Rooms and request a completed "Operations Department Accountability Aid" be forwarded to the TSC. _____
3. Initiate facility accountability by requesting a completed copy of Attachment 3A, TSC ERO Shift Staffing and Accountability Roster from the TSC Supervisor. _____
4. Telecopy the completed Attachment 3A, TSC ERO Shift Staffing and Accountability Roster, and the "Operations Department Accountability Aid" forms to Security. _____
5. Contact the EOF Emergency Security Manager (ESM). _____
 - a. Establish responsibility/protocol for notification of off-site authorities regarding the status of site evacuation. _____

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ATTACHMENT 13
TSC SECURITY SUPERVISOR CHECKLIST
(Page 2 of 3)

- | | |
|---|----------------|
| A. (continue) | <u>INITIAL</u> |
| 6. Upon declaration of a Site Area Emergency. | _____ |
| a. Start accountability at:_____ | _____ |
| b. Start sweeps at:_____ | _____ |
| 1. Off-site work areas. | |
| 2. West forty and Fitness Center. | |
| 3. Owner Controlled Area. | |
| a. Beach side. | |
| b. River side. | |
| 4. On-site and Radiation Controlled Area. | |
| 5. Marine Research Center. | |
| c. Accountability completed at_____. | _____ |
| d. Sweeps completed at_____. | _____ |
| 7. Steps to occur continually while the facility is in operation: | |

<p><u>CAUTION</u> Ensure the EC is aware of any actions required by the Security Plan (e.g., alert or emergency declaration, suspension of safeguards, etc.).</p>
--

- a. Advise the EC on Security related manners.

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ATTACHMENT 13
TSC SECURITY SUPERVISOR CHECKLIST
(Page 3 of 3)

A. (continue)

INITIAL

7. (continued)

b. In conjunction with the ESM, provide liaison function between local law enforcement and rescue agencies and FPL for issues such as:

1. Bomb threats or acts of terrorism.
2. Member of the public or media arriving at the site.
3. Site egress and ingress.
4. Fire or rescue/medical response.

c. Coordinate safeguards suspension with the ESM and EC.

d. Maintain site accountability of all personnel throughout the emergency.

e. Follow Security Procedures.

C. FACILITY CLOSEOUT AND RESTORATION

NOTE

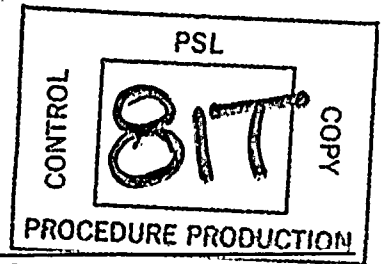
All paperwork completed in the position notebook should remain in the position notebook.

1. Closed out with the local law enforcement agencies, as needed. _____
2. Closed out Security Logbook. _____
3. All paperwork collected. _____
4. Returned position notebook to the storage cabinet. _____
5. Provided all completed paperwork to the TSC Supervisor. _____

S__OPS
 DATE _____
 DOCT PROCEDURE _____
 DOCN EPIP-07 _____
 SYS _____
 COMP COMPLETED _____
 ITM 1 _____

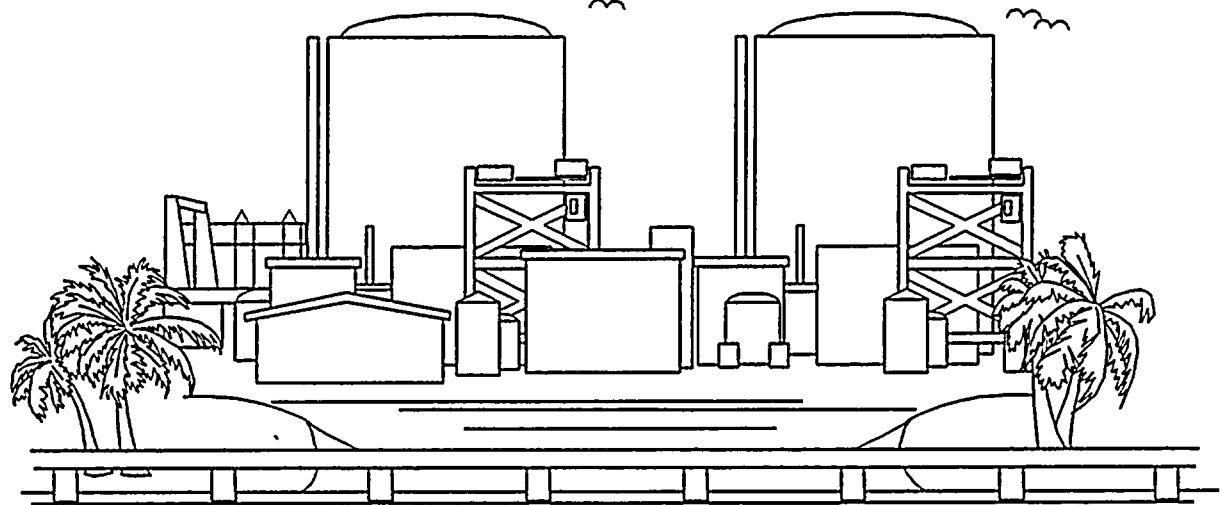
FLORIDA POWER & LIGHT

ST. LUCIE PLANT



PREVIOUSLY ISSUED AS 3100026E

EPIP-07 REVISION 1



CONDUCT OF EVACUATIONS/ASSEMBLY

EMERGENCY PLAN IMPLEMENTING PROCEDURE

REVISION	REVIEWED BY FRG ON	APPROVED BY	DATE
0	<u>12/15/97</u>	<u>J. Scarola</u> Plant General Manager	<u>12/15/97</u>
1	<u>12/02/98</u>	<u>R. G. West</u> Plant General Manager	<u>12/02/98</u>

Responsible
 Department: SERVICES

REVISION NO.: 1	PROCEDURE TITLE: CONDUCT OF EVACUATIONS/ASSEMBLY ST. LUCIE PLANT	PAGE: 2 of 13
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THIS PROCEDURE HAS BEEN COMPLETELY REWRITTEN, PLEASE READ ENTIRE PROCEDURE BEFORE PROCEEDING.

/R1

1.0 PURPOSE

This procedure provides criteria for determining if evacuation of a local area on-site or the Owner Controlled Area should be carried out. It provides instructions of effecting an orderly, rapid and safe evacuation of a local area or the Owner Controlled Area. It also provides instructions for personnel accountability.

NOTE

One or more of the following symbols may be used in this procedure:

§ Indicates a Regulatory commitment made by Technical Specifications, Condition of License, Audit, LER, Bulletin, etc., and shall NOT be revised without Facility Review Group review and Plant General Manager approval.

¶ Indicates a management directive, vendor recommendation, plant practice or other non-regulatory commitment that should NOT be revised without consultation with the plant staff.

2.0 REFERENCES/RECORDS REQUIRED/COMMITMENT DOCUMENTS

2.1 References

1. St. Lucie Plant Radiological Emergency Plan (E-Plan)
2. St. Lucie Plant Physical Security Plan
3. E-Plan Implementing Procedures (EPIP 00-13)
4. HP-207, Monitoring Evacuated Personnel During Emergencies
5. HP-208, Personnel Decontamination During Emergencies
6. Security Procedure 0006123, Owner Controlled Area, Site Evacuation and Traffic Control
7. Administrative Procedure 0005770, On-Site Medical Program
8. ADM-15.02, Access Authorization and Control

¶,

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2.0 REFERENCES/RECORDS REQUIRED/COMMITMENT DOCUMENTS

2.2 Records Required

1. A list of all persons at the Off-site Assembly Area should be documented on a form similar to Attachment 2, Off-site Assembly Area Roster, by the Assembly Area Supervisor.

2.3 Commitment Documents

None

3.0 RESPONSIBILITIES

3.1 Nuclear Plant Supervisor (NPS)

1. Initiates the evacuation of any area in which a criterion for evacuation as expressed in Attachment 1, Evacuation Criteria is met.
2. Acts as the Emergency Coordinator (EC) after declaration of an emergency until relieved as specified in EPIP-02, Duties and Responsibilities of the Emergency Coordinator.

3.2 Emergency Coordinator (EC)

1. Advises the Security Shift Specialist of a Local Evacuation or an Owner Controlled Area Evacuation. (EPIP-02)

(This notification may be by the plant alarm and/or plant/public address (PA) system.)
2. Reviews weather and plant conditions and makes Protective Action Recommendations (PARs) as necessary in accordance with EPIP-02, Duties and Responsibilities of the Emergency Coordinator.

3.3 Security Shift Specialist

1. When the TSC is activated, normally serves as the TSC Security Supervisor in accordance with the instructions provided in EPIP-04, Activation and Operation of the Technical Support Center.

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3.0 RESPONSIBILITIES (continued)

1, 3.4 Escorts/Tour Guides

1. Maintain personnel accountability of their groups.
2. Conduct evacuation of group upon hearing alarm, PA announcement, or receiving information from Security to do so.

3.5 Assembly Area Supervisor

1. Reports to and establishes the Off-site Assembly Area as directed by Operational Support Center (OSC) Supervisor.

3.6 Non-emergency Response Organization (ERO) Personnel

1. Report to their normal office/lab/shop area upon notification.
2. Follow the instructions provided by the EC.

4.0 DEFINITIONS

4.1 Escort

An individual specifically assigned to accompany another person(s) who is/are required by the Security Plan or Health Physics Manual to be escorted.

4.2 Essential Personnel

Personnel essential to plant operation, security or currently filling or relieving an on-site emergency response position, including all qualified operators.

4.3 Health Physics Office Area

The Health Physics Office Area, located in each of the Reactor Auxiliary Buildings (RABs), is likely to be used as an assembly location during a Local Evacuation of a radiologically affected area.

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4.0 DEFINITIONS (continued)

4.4 Local Evacuation

An evacuation of some portion of, but not all of, the Protected Area. It may include evacuation of personnel from a room, area or building, located within the Protected Area.

A Local Evacuation outside the Protected Area, but within the Owner Controlled Area, may be ordered if the EC determines it to be an appropriate action. Conditions which may warrant a Local Evacuation involve uncontrolled radioactive materials outside the Radiation Controlled Area/Protected Area, hazards resulting from natural emergencies, fire damage, or a situation exists for which a Local Evacuation is deemed appropriate by the EC.

4.5 Nonessential Personnel

Personnel NOT essential to plant operation or currently filling or relieving an on-site emergency response position.

4.6 Normal Workday

The hours of 0700 to 1630 on all weekdays except holidays.

4.7 Normal Work Location

A location to which Non-ERO personnel initially report upon declaration of an Alert. These areas are usually the employees' normal work reporting locations (i.e., office/lab/shop area).

4.8 Off-site Assembly Area

In an Owner Controlled Area Evacuation with a radiological release in progress, personnel from the Protected Area will report to the Off-site Assembly Area at Jaycee Public Park on Highway A1A, 7 1/2 miles north of the plant or Jensen Beach Parking Area 6 miles south of the plant, as directed by the EC. This area allows for personnel contamination control, assistance in accountability and for provision of additional information to evacuees as needed. An off-site Assembly Area may not be established if evacuation occurs prior to radiological release.

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4.0 DEFINITIONS (continued)

4.9 Owner Controlled Area

That portion of FPL property surrounding and including the St. Lucie Nuclear Power Plant which is subject to limited access and control as deemed appropriate by FPL.

4.10 Owner Controlled Area Evacuation (= Site Evacuation)

The evacuation from the Owner Controlled Area of all personnel except those required to place the plant in a safe condition, the ERO and Security personnel necessary to fulfill responsibilities for evacuation.

4.11 Protected Area

The area (within the Owner Controlled Area) occupied by the nuclear units and associated equipment and facilities enclosed within the security perimeter fence. The area within which accountability of personnel is maintained in an emergency.

4.12 Re-entry

Access to areas where evacuation (local or site) has been ordered constitutes a re-entry. Re-entry into an evacuated area is authorized only by the EC.



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5.0 INSTRUCTIONS

5.1 NPS/Emergency Coordinator (EC)

Review plant conditions and take protective actions per EPIP-02, Duties and Responsibilities of the Emergency Coordinator.

5.2 Security Shift Specialist

1. Normally acts as the TSC Security Supervisor in accordance with EPIP-04, Activation and Operation of the Technical Support Center.

5.3 Assembly Area Supervisor

1. Perform activities in accordance with Attachment 2, Off-site Assembly Area Supervisor Checklist.

5.4 Emergency Response Organization (ERO) Personnel

1. Respond to your assigned emergency facility as directed.
2. Sign in on accountability roster.
3. Perform instructions in accordance with Facility EPIP.

5.5 Non-Emergency Response Personnel

1. Site Assembly
 - A. Report promptly to your normal office, lab or shop area as directed by PA announcement.
 - B. Follow any further instructions provided by the EC.
2. Site Evacuation (= Owner Controlled Area Evacuation)
 - A. Promptly proceed to the nearest access point upon hearing alarm or as directed by the PA announcements.
 - B. Retain possession of you TLD.



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5.0 INSTRUCTIONS (continued)

5.5 Non-Emergency Response Personnel (continued)

2. (continued)

- C. If there has not been a radiological release, Then personnel are directed to proceed home on the specified route.
- D. If there has been or is currently a radiological release, Then personnel are directed to proceed to either Jensen Beach Park or Jaycee Park as directed.

END OF INSTRUCTIONS SECTION

REVISION NO.: 1	PROCEDURE TITLE: CONDUCT OF EVACUATIONS/ASSEMBLY ST. LUCIE PLANT	PAGE: 10 of 13
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ATTACHMENT 1
CRITERIA FOR EVACUATION
(Page 1 of 1)

Criteria for Local Evacuation

The need for Local Evacuation shall be determined in accordance with the following criteria:

Evacuate the affected local area in which any of the following conditions occur:

1. Area Radiation Monitor Alarm.
2. Containment Evacuation Alarm.
3. Unevaluated direct radiation dose rate increase in excess of 100 mRem/hour above normal levels.
4. Unexpected airborne radioactivity concentration in excess of 1×10^{-9} micro Ci/cc.
5. Removable radioactive surface contamination in an unposted area in excess of 1000 dpm/100 cm² beta-gamma over an area of 100 ft².
6. Removable radioactive surface contamination in an unposted area in excess of 50 dpm/100cm² alpha over an area of 100 ft².
7. The Emergency Coordinator determines that a situation exists for which Local Evacuation is appropriate.

Criteria for Owner Controlled Area Evacuation

The Owner Controlled Area shall be evacuated in the following circumstances:

1. Site Area Emergency
2. General Emergency
3. If the Emergency Coordinator determines that the entire Owner Controlled Area should be evacuated.

END OF ATTACHMENT 1

REVISION NO.: 1	PROCEDURE TITLE: CONDUCT OF EVACUATIONS/ASSEMBLY ST. LUCIE PLANT	PAGE: 11 of 13
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ATTACHMENT 2
ASSEMBLY AREA SUPERVISOR CHECKLIST
(Page 1 of 2)

NOTE
When necessary or appropriate, steps of this checklist may be performed out of sequence.

- | | | |
|-----------|---|-----------------------|
| A. | <u>FACILITY ACTIVATION</u> | <u>INITIAL</u> |
| | 1. Refer to Section 5 of EPIP-05, Activation and Operation of the Operational Support Center (included in the position notebook) and review the general instructions. | _____ |
| | 2. Obtain a radio and spare battery (use personal radio, if possible) | _____ |

B. FACILITY OPERATION

CAUTION
An Off-site Assembly Area is required if a radiological release is in progress during the evacuation of the Owner Controlled Area.

- | | | |
|--|--|-------|
| | 1. Determine probable Off-site Assembly Area from consultation with the OSC Supervisor. | _____ |
| | 2. Determine personnel resource availability from: | |
| | a. HPOSC: | _____ |
| | b. Security: | _____ |
| | c. Available non-essential personnel: | _____ |
| | 3. Coordinate with the HPOSC for monitoring and decontamination assistance. | _____ |
| | 4. Coordinate with Security for traffic control assistance from off-site law enforcement agencies. | _____ |
| | 5. When directed by the OSC Supervisor, report to the designated Off-site Assembly Area. | _____ |

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ATTACHMENT 2
ASSEMBLY AREA SUPERVISOR CHECKLIST
(Page 2 of 2)

C. OFF-SITE ASSEMBLY AREA OPERATION INITIAL

1. Upon arrival at the Off-site Assembly Area, establish communications with the OSC Supervisor. _____
2. Steps to occur continually while the Off-site Assembly Area is in operation.
 - a. Using a form similar to Attachment 2A, ensure that arriving personnel are logged on the Off-site Assembly Area Roster.
 - b. Ensure all personnel frisk for contamination, assisting non-trained personnel as necessary.
3. Contact the OSC regarding any identified contamination for instructions and assistance. _____

D. DEACTIVATION OF THE OFF-SITE ASSEMBLY AREA

NOTE

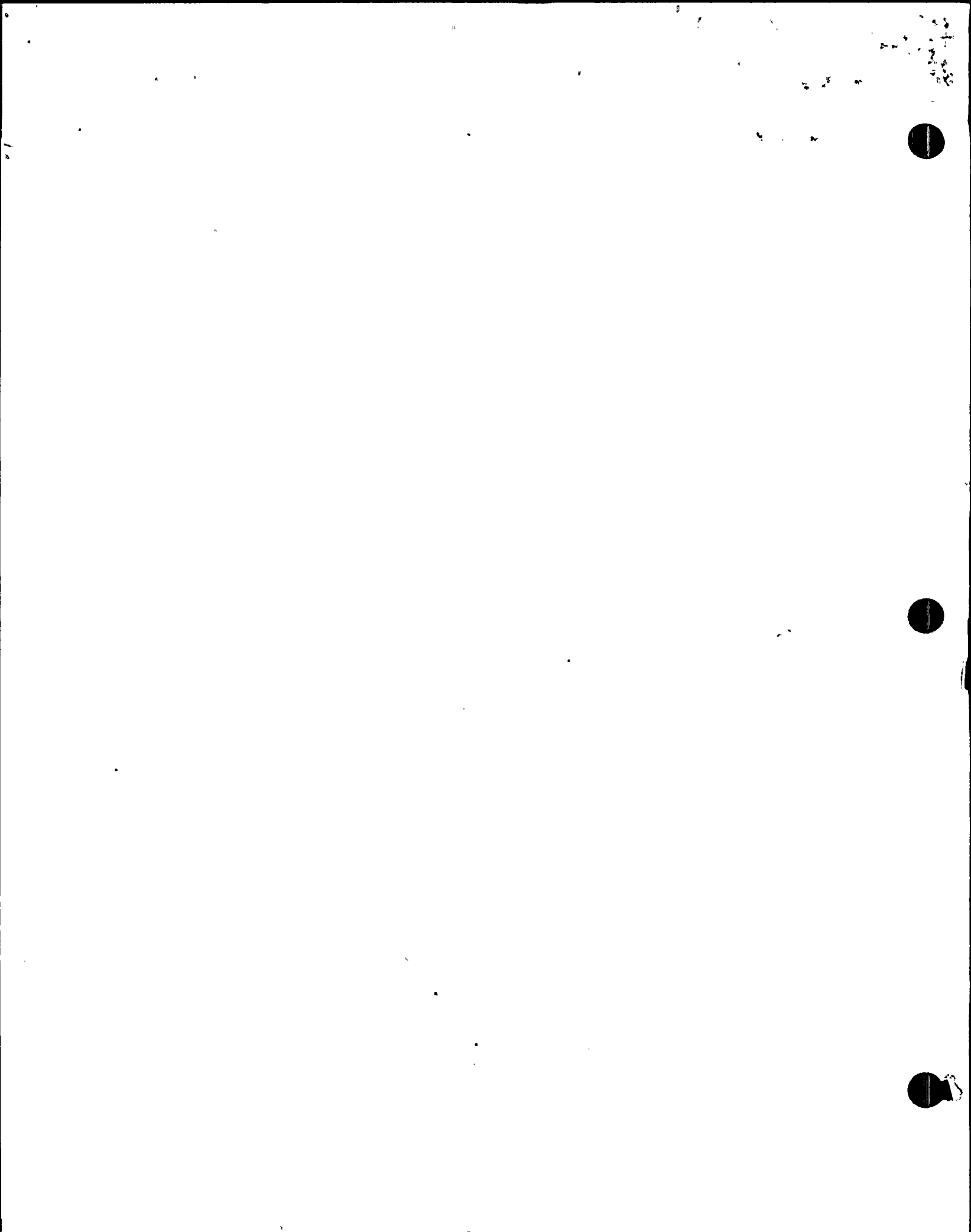
All paperwork completed in the position notebooks should remain in the position notebook.

1. At the direction of the OSC Supervisor, deactivated the Off-site Assembly Area. _____
2. Returned position notebook to the storage location in the OSC. _____
3. Provided all completed paperwork to the OSC Supervisor. _____

END OF ATTACHMENT 2

2
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50-335

*Superseded
paper per letter to
EPIP dtd. 5/15/2000*

S__OPS

DATE _____

DOCT PROCEDURE _____

DOCN EPIP-01 _____

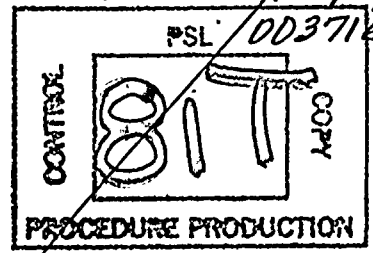
SYS _____

COMP COMPLETED _____

ITM 0 _____

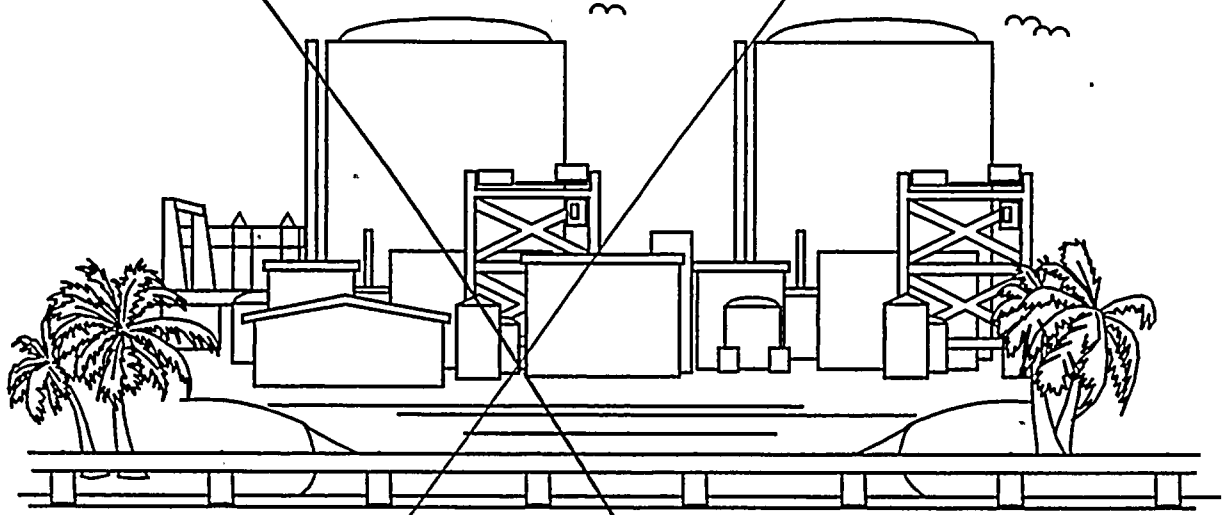
FLORIDA POWER & LIGHT

ST. LUCIE PLANT



PREVIOUSLY ISSUED AS 3100022E

EPIP-01 REVISION 0



CLASSIFICATION OF EMERGENCIES

EMERGENCY PLAN IMPLEMENTING PROCEDURE

REVISION	REVIEWED BY FRG ON	APPROVED BY	DATE
0	12/15/97	J. Scarola Plant General Manager	12/15/97
		Plant General Manager	

This procedure had a minor editorial change (/ROA)
on this cover page - Effective 4/15/98.

Responsible
Department: SERVICES

/ROA

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1.0 PURPOSE

This procedure provides instructions on the classification of emergencies at St. Lucie Plant.

Emergency classifications in order of increasing seriousness are:

- Unusual Event
- Alert
- Site Area Emergency
- General Emergency

Specific criteria are provided to assure proper escalation and de-escalation between emergency classification levels.

NOTE

One or more of the following symbols may be used in this procedure:

- § Indicates a Regulatory commitment made by Technical Specifications, Condition of License, Audit, LER, Bulletin, etc., and shall NOT be revised without Facility Review Group review and Plant General Manager approval.
- ¶ Indicates a management directive, vendor recommendation, plant practice or other non-regulatory commitment that should NOT be revised without consultation with the plant staff.

2.0 REFERENCES/RECORDS REQUIRED/COMMITMENT DOCUMENTS

2.1 References

1. St. Lucie Plant Radiological Emergency Plan (E-Plan)
2. E-Plan Implementing Procedures (EPIP 00-13)
3. C-200, Offsite Dose Calculation Manual (ODCM).
4. AP 0010502, Oil and Hazardous Material Emergency Response Plan.

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2.0 REFERENCES/RECORDS REQUIRED/COMMITMENT DOCUMENTS (continued)

2.2 Records Required

The basis for classifying an emergency condition shall be recorded in appropriate emergency logs.

2.3 Commitment Documents

None

3.0 RESPONSIBILITIES

3.1 Nuclear Plant Supervisor (NPS)

1. The Nuclear Plant Supervisor is responsible to promptly classify abnormal situations into one of the four defined categories.
2. If an emergency has been declared, the Nuclear Plant Supervisor is responsible for assuming the position of Emergency Coordinator and retaining this position until relieved.

3.2 Emergency Coordinator (EC)

The Emergency Coordinator is responsible to continually evaluate changes in plant conditions against the classification table in this procedure.

4.0 DEFINITIONS

4.1 Unusual Event

This classification is represented by off-normal events or conditions at the plant for which no significant degradation of the level of safety of the plant has occurred or is expected. Any releases of radioactive material which may have occurred or which may be expected are minor and constitute no appreciable health hazard.

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4.0 DEFINITIONS (continued)

4.2 Alert

This classification is represented by events which involve an actual or potential substantial degradation of the level of safety of the plant combined with a potential for limited uncontrolled releases of radioactivity from the plant.

4.3 Site Area Emergency

This classification is composed of events which involve actual or likely major failures of plant functions needed for protection of the public combined with a potential for significant uncontrolled releases of radioactivity from the plant.

4.4 General Emergency

This classification is composed of events which involve actual or imminent substantial core degradation and potential loss of containment integrity combined with a likelihood of significant uncontrolled releases of radioactivity from the plant.

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5.0 INSTRUCTIONS

5.1 Direct Initial Investigative and Mitigating Actions to Address the Event

1. If the event involves entry into EOP's or ONOP's, Then perform steps per EOP's or ONOP's until appropriate or directed to classify event.
2. If the event involves a release of hazardous materials to the environment, Then respond per AP 0010502, Oil and Hazardous Material Emergency Response Plan.
3. If the event involves a release of radioactive material to the environment, Then direct Chemistry personnel to implement EPIP-09, Off-site Dose Calculations.

END OF SECTION 5.1

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5.0 INSTRUCTIONS (continued)

NOTE

Emergency Action Levels/Initiating Conditions are applicable to all modes unless otherwise indicated.

5.2 Classify event using best available information per Attachment 1.

1. When apparently conflicting information is available, classify the condition at the most serious level indicated.
2. If, in the judgement of the Nuclear Plant Supervisor (Emergency Coordinator), a situation is more serious than indicated by instrument readings or other parameters, Then classify the emergency condition at the more serious level.
3. If an Emergency Action Level (EAL) was met and the condition completely cleared prior to an emergency classification being declared, Then classify the event in accordance with Attachment 1 of this procedure.

CAUTION

Only the Recovery Manager (RM) can authorize the downgrading (or terminating) of emergency classifications from Site Area Emergency or General Emergency.

4. If the Nuclear Plant Supervisor determines that the Initiating Condition(s) are met for an Unusual Event or Alert Emergency Action Level (EAL), even if the condition has cleared, Then declare and terminate the emergency condition.

END OF SECTION 5.2

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5.0 INSTRUCTIONS (continued)

5.3 If subsequent information of a more detailed nature (e.g., sampling results) becomes available after the initial classification has been made, Then reclassify as appropriate.

END OF SECTION 5.3

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CLASSIFICATION OF EMERGENCIES

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ST. LUCIE PLANT

ATTACHMENT 1
EMERGENCY CLASSIFICATION TABLE

(Page 1 of 20)

EVENT/CLASS	UNUSUAL EVENT	ALERT	SITE AREA EMERGENCY	GENERAL EMERGENCY
1.A. <u>ABNORMAL</u> <u>PRIMARY</u> <u>LEAK RATE</u> (Page 1 of 2)	<u>Reactor Coolant System</u> <u>(RCS) Leakage</u> 1. RCS leakage GREATER THAN 10 gpm as indicated by: A. Control Room observation <u>OR</u> B. Inventory balance calculation <u>OR</u> C. Field observation <u>OR</u> D. Emergency Coordinator judgement <u>OR</u> 2. Indication of leaking RCS safety or relief valve which causes RCS pressure to drop below 1600 psia.	<u>RCS Leakage GREATER</u> <u>THAN 50 gpm</u> 1. Charging/letdown mismatch or measured RCS leakage indicates greater than 50 gpm but less than 132 gpm RCS leak.	<u>LOCA GREATER THAN</u> <u>capacity of charging pumps</u> 1. RCS leakage greater than 132 gpm occurring with RCS pressure above HPSI shutoff head. <u>OR</u> 2. RCS leakage greater than available makeup occurring with RCS pressure below HPSI shutoff head. <u>OR</u> 3. Loss of RCS subcooled margin due to RCS leakage (saturated conditions). <u>OR</u> 4. Containment High Range Radiation Monitors indicate 7.3×10^3 R/hr (If CHRRM inoperable, Post-LOCA monitors indicate between 100 and 1000 mR/hr).	<u>A release has occurred or is</u> <u>in progress resulting in:</u> 1. Containment High Range Radiation monitor greater than 1.46×10^5 R/hr (If CHRRM inoperable, Post- LOCA monitors greater than 1000 mR/hr). <u>OR</u> 2. Performance of EPIP-09 (Off-site Dose Calculations) or measured dose rates from off-site surveys indicate site boundary (1 mile) exposure levels have been exceeded as indicated by either A, B, C or D below: A. 1000 mrem/hr (total dose rate) B. 1000 mrem (total dose - TEDE) C. 5000 mrem/hr (thyroid dose rate) D. 5000 mrem (thyroid dose - CDE)

(continued on next page)

1.A. ABNORMAL
PRIMARY
LEAK RATE

AFTER CLASSIFYING, GO TO EPIP-02, DUTIES AND RESPONSIBILITIES OF THE EMERGENCY COORDINATOR

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EMERGENCY CLASSIFICATION TABLE
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EVENT/CLASS	UNUSUAL EVENT	ALERT	SITE AREA EMERGENCY	GENERAL EMERGENCY
-------------	---------------	-------	---------------------	-------------------

1.A. ABNORMAL
PRIMARY
LEAK RATE
(Page 2 of 2)

Loss of 2 of the 3 fission product barriers with imminent loss of the third (any two of the following exist and the third is imminent).

1. Fuel element failure (confirmed DEQ I-131 activity greater than 275 $\mu\text{Ci/mL}$).
AND
2. LOCA or Tube rupture on unisolable steam generator.
AND
3. Containment Integrity Breached.

NOTE
Also refer to Potential Core Melt Event/ Class 6.A.

1.A. ABNORMAL
PRIMARY
LEAK RATE

AFTER CLASSIFYING, GO TO EPIP-02, DUTIES AND RESPONSIBILITIES OF THE EMERGENCY COORDINATOR



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ATTACHMENT 1
EMERGENCY CLASSIFICATION TABLE
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GENERAL EMERGENCY

Loss of 2 of the 3 fission product barriers with imminent loss of the third (any two of the following exist and the third is imminent).

1. Fuel element failure (confirmed DEQ I-131 activity greater than 275 $\mu\text{Ci/mL}$).
AND
2. LOCA or Tube rupture on unisolable steam generator.
AND
3. Containment integrity breached.

NOTE
Also refer to Potential Core Melt Event/ Class 6.A.

SITE AREA EMERGENCY

Rapid gross failure of steam generator tubes (GREATER THAN charging pump capacity) with a loss of offsite power

1. Measured RCS to secondary leakage is greater than charging pump capacity.
AND
2. Secondary plant activity is detected.
AND
3. Loss of both Non-Vital 4.16 KV buses.

(continued on next page)

ALERT

Rapid gross failure of one steam generator tube (WITHIN charging pump capacity) with loss of offsite power

1. Measured RCS to secondary leakage greater than Tech. Spec. Limits and within charging pump capacity.
AND
2. Secondary plant activity is detected.
AND
3. Loss of both Non-Vital 4.16 KV buses.

(continued on next page)

UNUSUAL EVENT

RCS PRI/SEC Leakage

1. Measured RCS to secondary leakage exceeds Tech. Spec. limits.
AND
2. Secondary plant activity is detected.

EVENT/CLASS

1.B. ABNORMAL PRIMARY TO SECONDARY LEAK RATE
(Page 1 of 2)

1.B. ABNORMAL PRIMARY TO SECONDARY LEAK RATE

AFTER CLASSIFYING, GO TO EPIP-02, DUTIES AND RESPONSIBILITIES OF THE EMERGENCY COORDINATOR

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ATTACHMENT 1
EMERGENCY CLASSIFICATION TABLE
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GENERAL EMERGENCY

A release has occurred or is in progress resulting in:

1. Containment High Range Radiation monitor greater than 1.46×10^5 R/hr (If CHRRM inoperable, Post-LOCA monitors greater than 1000 mR/hr).
OR
2. Performance of EPIP-09 (Off-site Dose Calculations) or measured dose rates from off-site surveys indicate site boundary (1 mile) exposure levels have been exceeded as indicated by either A, B, C or D below:
 - A. 1000 mrem/hr (total dose rate)
 - B. 1000 mrem (total dose - TEDE)
 - C. 5000 mrem/hr (thyroid dose rate)
 - D. 5000 mrem (thyroid dose-CDE)

(continued on next page)

SITE AREA EMERGENCY

Major steam leak with GREATER THAN 50 gpm primary/secondary leakage and fuel damage indicated

1. Rapid drop in either steam generator pressure to less than 600 psia.
AND
2. Known pri/sec leak of greater than 50 gpm.
AND
3. Secondary plant activity is detected.
AND
4. Fuel element damage is indicated (Refer to Fuel Element Failure Event/Class 4.A).

TLOF with once-through cooling initiated

1. No main or auxiliary feedwater flow available.
AND
2. PORV(s) have been opened to facilitate core heat removal.

ALERT

Major steam leak with GREATER THAN 10 gpm primary/secondary leakage

1. Rapid drop in either steam generator pressure to less than 600 psia.
AND
2. Known pri/sec leak of greater than 10 gpm.
AND
3. Secondary plant activity is detected.

Total loss of feedwater

1. No main or auxiliary feedwater flow available for greater than 15 minutes when required for heat removal.
AND
2. Steam Generator levels are less than 40% wide range.

UNUSUAL EVENT

Rapid depressurization of secondary plant

1. Rapid drop in either steam generator pressure to less than 600 psia.

EVENT/CLASS

1.C. LOSS OF SECONDARY COOLANT
(Page 1 of 2)

1.C. LOSS OF SECONDARY COOLANT

AFTER CLASSIFYING, GO TO EPIP-02, DUTIES AND RESPONSIBILITIES OF THE EMERGENCY COORDINATOR

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ATTACHMENT 1
EMERGENCY CLASSIFICATION TABLE
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EVENT/CLASS	UNUSUAL EVENT	ALERT	SITE AREA EMERGENCY	GENERAL EMERGENCY
1.C. <u>LOSS OF SECONDARY COOLANT</u> (Page 2 of 2)				<p><u>Loss of 2 of the 3 fission product barriers with imminent loss of the third (any two of the following exist and the third is imminent).</u></p> <ol style="list-style-type: none"> 1. Fuel element failure (confirmed DEQ I-131 activity greater than 275 µCi/mL). <li style="text-align: center;"><u>AND</u> 2. LOCA or Tube rupture on unisolable steam generator. <li style="text-align: center;"><u>AND</u> 3. Containment Integrity Breached. <div style="border: 1px solid black; padding: 5px; margin: 10px auto; width: fit-content;"> <p style="text-align: center;">NOTE Also refer to Potential Core Melt Event/Class 6.A.</p> </div>
1.C. <u>LOSS OF SECONDARY COOLANT</u>				

AFTER CLASSIFYING, GO TO EPIP-02, DUTIES AND RESPONSIBILITIES OF THE EMERGENCY COORDINATOR

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- | EVENT/CLASS | UNUSUAL EVENT | ALERT | SITE AREA EMERGENCY | GENERAL EMERGENCY |
|---|--|---|---|---|
| 2.A. <u>UNCONTROLLED EFFLUENT RELEASE</u> | <u>Radiological effluent limits exceeded</u>
1. Plant effluent monitor(s) exceed alarm setpoint(s).
<u>AND</u>
2. Confirmed analysis results for gaseous or liquid release which exceeds ODCM limits. | <u>A release has occurred or is in progress that is 10 times the effluent limit</u>
1. Plant effluent monitor(s) significantly exceed alarm setpoints.
<u>AND</u>
2. Confirmed analysis results for gaseous or liquid release which exceeds <u>10 times ODCM limits.</u> | <u>A release has occurred or is in progress resulting in:</u>
1. Containment High Range Radiation Monitor greater than 7.3×10^3 R/hr (Post-LOCA monitors indicate between 100 and 1000 mR/hr, if CHRRM inoperable).
<u>OR</u>
2. Measured Dose Rates or Offsite Dose Calculation (EPIP-09) worksheet values at one mile in excess of:
A. 50 mrem/hr (total dose-TEDE) or 250 mrem/hr (thyroid dose-CDE) for 1/2 hour.
<u>OR</u>
B. 500 mrem/hr (total dose-TEDE) or 2500 mrem/hr (thyroid dose-CDE) for two minutes at one mile. | <u>A release has occurred or is in progress resulting in:</u>
1. Containment High Range Radiation monitor greater than 1.46×10^5 R/hr (If CHRRM inoperable, Post-LOCA monitors greater than 1000 mR/hr).
<u>OR</u>
2. Performance of EPIP-09 (Off-site Dose Calculations) or measured dose rates from off-site surveys indicate site boundary (1 mile) exposure levels have been exceeded as indicated by either A, B, C or D below:
A. 1000 mrem/hr (total dose rate)
B. 1000 mrem (total dose - TEDE)
C. 5000 mrem/hr (thyroid dose rate)
D. 5000 mrem (thyroid dose-CDE) |

NOTE
 If analysis is not available within one hour and it is expected that release is greater than ODCM limit, classify as **UNUSUAL EVENT.**

NOTE
 If analysis is not available within one hour and it is expected that release is equal to or greater than 10 times ODCM limit, classify as **ALERT.**

ODCM - refers to Chemistry Procedure C-200, Offsite Dose Calculation Manual (ODCM)

2.A. UNCONTROLLED EFFLUENT RELEASE

AFTER CLASSIFYING, GO TO EPIP-02, DUTIES AND RESPONSIBILITIES OF THE EMERGENCY COORDINATOR

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EVENT/CLASS	UNUSUAL EVENT	ALERT	SITE AREA EMERGENCY	GENERAL EMERGENCY
2.B. <u>HIGH RADIATION LEVELS IN PLANT</u>		<p><u>High radiation levels or high airborne contamination which indicates a severe degradation in the control of radioactive materials</u></p> <ol style="list-style-type: none"> Any valid area monitor alarm from indeterminable source with meter near or greater than full scale deflection (10³ mR/hr). <p style="text-align: center;"><u>OR</u></p> <ol style="list-style-type: none"> Unexpected plant iodine or particulate airborne concentration of 1000 DAC as seen in routine surveying or sampling. <p style="text-align: center;"><u>OR</u></p> <ol style="list-style-type: none"> Unexpected direct radiation dose rate reading or unexpected airborne radioactivity concentration from an indeterminable source in excess of 1000 times normal levels. 		
2.B. <u>HIGH RADIATION LEVELS IN PLANT</u>				

AFTER CLASSIFYING, GO TO EPIP-02, DUTIES AND RESPONSIBILITIES OF THE EMERGENCY COORDINATOR

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NOTE
Refer to Potential Core Melt
Event/Class 6.A.

EVENT/CLASS	UNUSUAL EVENT	ALERT	SITE AREA EMERGENCY	GENERAL EMERGENCY
3. <u>FIRE</u>	<u>Uncontrolled fire within the plant lasting more than 10 minutes.</u>	<u>Uncontrolled fire</u> 1. Potentially affecting safety systems. AND 2. Requiring off-site support in the opinion of the NPS/EC.	<u>Fire compromising the function of safety systems (i.e., both trains rendered inoperable).</u>	
<u>EXPLOSION</u>	<u>Occurrence of an explosion within the Owner Controlled Area.</u>	<u>Damage to facility by explosion which affects plant operation.</u>	<u>Severe damage to safe shutdown equipment from explosion.</u>	
3. <u>FIRE</u>				
<u>EXPLOSION</u>				

AFTER CLASSIFYING, GO TO EPIP-02, DUTIES AND RESPONSIBILITIES OF THE EMERGENCY COORDINATOR

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EVENT/CLASS	UNUSUAL EVENT	ALERT	SITE AREA EMERGENCY	GENERAL EMERGENCY
4.A. <u>FUEL ELEMENT FAILURE</u>	<p><u>Fuel element damage</u></p> <ol style="list-style-type: none">Process monitors or area radiation surveys indicate increased letdown activity <u>AND</u>Confirmed RCS sample indicating:<ol style="list-style-type: none">Coolant activity greater than the Tech Spec limit for Iodine spike (Tech Spec Figure 3.4-1.). <u>OR</u>Coolant activity greater than 100/E $\mu\text{Ci}/\text{gram}$ specific activity. <div style="border: 1px solid black; padding: 5px;"><p><u>NOTE</u> If analysis is not available within one hour and it is expected that activity is greater than Tech Spec limit, classify as <u>UNUSUAL EVENT.</u></p></div>	<p><u>Fuel element failure</u></p> <ol style="list-style-type: none">Process monitors or area radiation surveys indicate increased letdown activity and confirmed RCS Samples indicating DEQ I-131 activity greater than or equal to 275 $\mu\text{Ci}/\text{mL}$. <div style="border: 1px solid black; padding: 5px;"><p><u>NOTE</u> If analysis is not available within one hour and it is expected that RCS activity for DEQ I-131 is greater than 275 $\mu\text{Ci}/\text{mL}$, classify as an <u>ALERT.</u></p></div>	<p><u>Fuel element failure with inadequate core cooling</u></p> <ol style="list-style-type: none">RCS DEQ I-131 activity greater than or equal to 275 $\mu\text{Ci}/\text{mL}$. <u>AND</u>Highest CET per core quadrant indicates greater than 10°F superheat or 700°F.	<p><u>A release has occurred or is in progress resulting in:</u></p> <ol style="list-style-type: none">Containment High Range Radiation monitor greater than 1.46×10^5 R/hr (If CHRRM inoperable, Post-LOCA monitors greater than 1000 mR/hr). <u>OR</u>Performance of EPIP-09 (Off-site Dose Calculations) or measured dose rates from off-site surveys indicate site boundary (1 mile) exposure levels have been exceeded as indicated by either A, B, C or D below:<ol style="list-style-type: none">1000 mrem/hr (total dose rate)1000 mrem (total dose - TEDE)5000 mrem/hr (thyroid dose rate)5000 mrem (thyroid dose - CDE)
4.A. <u>FUEL ELEMENT FAILURE</u>	<p>AFTER CLASSIFYING, GO TO EPIP-02, DUTIES AND RESPONSIBILITIES OF THE EMERGENCY COORDINATOR</p>			

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EVENT/CLASS	UNUSUAL EVENT	ALERT	SITE AREA EMERGENCY	GENERAL EMERGENCY
4.B. <u>FUEL HANDLING ACCIDENT</u>		<u>Fuel handling accident which results in the release of radioactivity to Containment or Fuel Handling Building:</u> 1. NPS/EC determines that an irradiated fuel assembly may have been damaged. <u>AND</u> 2. Associated area or process radiation monitors are in alarm.	<u>Major damage to irradiated fuel in Containment or Fuel Handling Building</u> 1. Step increase in the reading of radiation monitors in the plant vent and/or in the Fuel Handling Building. <u>AND</u> 2. Damage to more than one irradiated fuel assembly. <u>OR</u> Uncovering of one or more irradiated fuel assemblies in the Spent Fuel Pool.	
4.B. <u>FUEL HANDLING ACCIDENT</u>				

AFTER CLASSIFYING, GO TO EPIP-02, DUTIES AND RESPONSIBILITIES OF THE EMERGENCY COORDINATOR

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NOTE
Refer to Potential Core Melt Event/Class 6.A.

NOTE
Refer to Potential Core Melt Event/Class 6.A.

EVENT/CLASS	UNUSUAL EVENT	ALERT	SITE AREA EMERGENCY	GENERAL EMERGENCY
5.A. <u>EARTHQUAKE</u>	<p><u>A confirmed earthquake has occurred</u></p> <ol style="list-style-type: none"> 1. A confirmed earthquake has been experienced within the Owner Controlled Area. <p style="text-align: center;"><u>OR</u></p> <ol style="list-style-type: none"> 2. An earthquake is detected by plant seismic monitor instruments. 	<p><u>A confirmed earthquake occurs which registers GREATER THAN 0.05 g.</u></p>	<p><u>A confirmed earthquake occurs which registers GREATER THAN 0.1g. with plant not at cold shutdown</u></p>	
5.B. <u>HURRICANE</u>	<p><u>Hurricane Warning</u></p> <ol style="list-style-type: none"> 1. Confirmed hurricane warning is in effect. 	<p><u>Hurricane warning with winds near design basis</u></p> <ol style="list-style-type: none"> 1. Confirmed hurricane warning is in effect and winds are expected to exceed 175 mph within the Owner Controlled Area. 	<p><u>Hurricane warning with winds GREATER THAN design basis</u></p> <ol style="list-style-type: none"> 1. Plant not at cold shutdown. 2. Confirmed hurricane warning is in effect and winds are expected to exceed 194 mph within the Owner Controlled Area. 	
		<p style="text-align: center;">NOTE At FPL's request, NOAA will provide an accurate projection of wind speeds onsite 24 hours prior to the onset of hurricane force winds. If that projection is not available within 12 hours of entering into the warning, classify the event using current track and wind speeds to project onsite conditions. For example, projected onsite wind speed would be less than maximum hurricane wind speed if the track is away from PSL.</p>	<p style="text-align: center;">NOTE At FPL's request, NOAA will provide an accurate projection of wind speeds onsite 24 hours prior to the onset of hurricane force winds. If that projection is not available within 12 hours of entering into the warning, classify the event using current track and wind speeds to project onsite conditions. For example, projected onsite wind speed would be less than maximum hurricane wind speed if the track is away from PSL.</p>	
5.A. <u>EARTHQUAKE</u> 5.B. <u>HURRICANE</u>				

AFTER CLASSIFYING, GO TO EPIP-02, DUTIES AND RESPONSIBILITIES OF THE EMERGENCY COORDINATOR

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PROCEDURE NO.:	EP-IP-01			

ATTACHMENT 1
EMERGENCY CLASSIFICATION TABLE
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NOTE
Refer to Potential Core Melt Event/Class 6.A.

EVENT/CLASS	UNUSUAL EVENT	ALERT	SITE AREA EMERGENCY	GENERAL EMERGENCY
5.C. <u>TORNADO</u>	<u>Notification of a tornado sighted in the Owner Controlled Area</u>	<u>Any tornado striking facility.</u>		
5.D. <u>ABNORMAL WATER LEVEL</u>	<u>Abnormal water level conditions are expected or occurring</u> 1. Low intake canal level of -10.5 ft. MLW for 1 hour or more. <u>OR</u> 2. Visual sightings by station personnel that water levels are approaching storm drain system capacity.	<u>Flood, low water, hurricane surge or other abnormal water level conditions</u> 1. The storm drain capacity is exceeded during hurricane surge or known flood conditions. <u>OR</u> 2. Low Intake canal level of -10.5 ft. MLW for 1 hour or more with emergency barrier valves open.	<u>Flood, low water, hurricane surge or other abnormal water level conditions causing failure of vital equipment</u> 1. Flood/surge water level reaching elevation +19.5 ft. (turbine building/RAB ground floor). <u>OR</u> 2. Low Intake canal level has caused the loss of all ICW flow.	
5.C. <u>TORNADO</u>				
5.D. <u>ABNORMAL WATER LEVEL</u>				

AFTER CLASSIFYING, GO TO EPIP-02, DUTIES AND RESPONSIBILITIES OF THE EMERGENCY COORDINATOR

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CLASSIFICATION OF EMERGENCIES

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EPIP-01

ST. LUCIE PLANT

ATTACHMENT 1
EMERGENCY CLASSIFICATION TABLE

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NOTE
Activation of the Emergency Response Facilities does not require declaration of an emergency or entry into a specific emergency classification.

EVENT/CLASS	UNUSUAL EVENT	ALERT	SITE AREA EMERGENCY	GENERAL EMERGENCY
		<u>Emergency Coordinator's judgement that plant conditions exist which warrant:</u>	<u>Emergency Coordinator's judgement that plant conditions exist which warrant:</u>	<u>Emergency Coordinator's judgement that plant conditions exist that make release or large amounts of radioactivity in a short period appear possible or likely. (Any core melt situation.)</u>
		1. Increased awareness and activation of Emergency Response personnel.	1. Activation of emergency response facilities and monitoring teams or a precautionary notification to the public near the site.	1. LOCA with failure of ECCS leading to severe core degradation or melt. <u>OR</u> 2. LOCA with initially successful ECCS and subsequent failure of containment heat removal systems for several hours. <u>OR</u> 3. Total loss of feedwater followed by failure of once-through-cooling (ECCS) to adequately cool the core. <u>OR</u> 4. Failure of off-site and on-site power along with total loss of emergency feedwater makeup capability for several hours. <u>OR</u> 5. ATWS occurs which results in core damage or causes failure of core cooling and make-up systems. <u>OR</u> 6. Any major internal or external event (e.g., fire, earthquake or tornado substantially beyond design basis) which in the ECs opinion has or could cause massive damage to plant systems resulting in any of the above.
	<u>Emergency Coordinator's judgement that plant conditions exist which warrant Increased awareness on the part of the operating staff and/or local authorities.</u>			(continued on next page)
6.A. <u>INCREASED AWARENESS</u> <u>OR</u> <u>POTENTIAL CORE MELT</u> (Page 1 of 2)	1. The plant is shutdown under abnormal conditions (e.g., exceeding cooldown rates or primary system pipe cracks are found during operation). <u>OR</u> 2. Any plant shutdown required by Technical Specifications in which the required shutdown is not reached within action limits.			
6.A. <u>INCREASED AWARENESS</u> <u>OR</u> <u>POTENTIAL CORE MELT</u>				

AFTER CLASSIFYING, GO TO EPIP-02, DUTIES AND RESPONSIBILITIES OF THE EMERGENCY COORDINATOR

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**ATTACHMENT 1
EMERGENCY CLASSIFICATION TABLE**
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GENERAL EMERGENCY

NOTES

- 1. Most likely containment failure mode is melt-through with release of gases only. Quicker releases are expected for failure of containment isolation system.
- 2. General Emergency must be declared for the above listed events. The likelihood of corrective action (repair of AFW pump, etc.) should not be considered.

SITE AREA EMERGENCY

ALERT

UNUSUAL EVENT

EVENT/CLASS

6.A. INCREASED AWARENESS OR POTENTIAL CORE MELT
(Page 2 of 2)

6.A. INCREASED AWARENESS OR POTENTIAL CORE MELT

AFTER CLASSIFYING, GO TO EPIP-02, DUTIES AND RESPONSIBILITIES OF THE EMERGENCY COORDINATOR

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ATTACHMENT 1
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NOTE
Refer to Potential Core
Melt Event/Class 6.A.

GENERAL EMERGENCY

SITE AREA EMERGENCY

Station Blackout (Total Loss of AC) for GREATER THAN 15 minutes

1. Loss of offsite AC power.
AND
2. Sustained failure of both emergency diesel generators to start or synchronize.
AND
3. Failure to restore AC power to at least one vital 4.16 kv bus within 15 minutes.

Loss of all vital on-site DC for greater than 15 minutes

1. Sustained drop in A and B DC bus voltages to 70 VDC for greater than 15 minutes.

ALERT

Station Blackout (Total Loss of AC)

1. Loss of off-site AC power.
AND
2. Failure of both emergency diesel generators to start or synchronize.

Loss of all on-site DC power

1. Drop in A and B DC bus voltages to less than 70 VDC.

UNUSUAL EVENT

Loss of off-site power or loss of all on-site AC power capability.

1. Loss of off-site AC power.
OR
2. Loss of capability to power at least one vital 4.16 kv bus from any available emergency diesel generator.

EVENT/CLASS

7.A. LOSS OF POWER

7.A. LOSS OF POWER

AFTER CLASSIFYING, GO TO EPIP-02, DUTIES AND RESPONSIBILITIES OF THE EMERGENCY COORDINATOR

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NOTE
Refer to Potential Core Melt Event/Class 6.A.

EVENT/CLASS	UNUSUAL EVENT	ALERT	SITE AREA EMERGENCY	GENERAL EMERGENCY
8.A. <u>LOSS OF PLANT CONTROL FUNCTIONS</u>		<u>Loss of Plant Control Functions</u> 1. Complete loss of any function needed for plant cold shutdown. <u>OR</u> 2. Failure of the Reactor Protection System to bring the reactor subcritical when needed. <u>OR</u> 3. Control Room is evacuated (for other than drill purposes) with control established locally at the Hot Shutdown Control Panel. <hr/> <u>Loss of Shutdown Cooling</u> 1. Complete loss of functions needed to maintain cold shutdown. A. Failure of shutdown cooling systems, resulting in loss of cold shutdown conditions. <u>AND</u> B. RCS subcooling can NOT be maintained greater than 0°F.	<u>Critical Loss of Plant Control Functions</u> 1. Loss of any function or system which, in the opinion of the Emergency Coordinator, precludes placing the plant in Hot Shutdown. <u>OR</u> 2. Failure of the RPS to trip the reactor when needed and operator actions fail to bring the reactor subcritical. <u>OR</u> 3. Control Room is evacuated (for other than drill purposes) and control cannot be established locally at the Hot Shutdown Control Panel within 15 minutes.	
8.A. <u>LOSS OF PLANT CONTROL FUNCTIONS</u>				

AFTER CLASSIFYING, GO TO EPIP-02, DUTIES AND RESPONSIBILITIES OF THE EMERGENCY COORDINATOR

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EVENT/CLASS	UNUSUAL EVENT	ALERT	SITE AREA EMERGENCY	GENERAL EMERGENCY
8.B. <u>LOSS OF ALARMS / COMMUNICATION / MONITORING</u>	<u>Significant loss of effluent monitoring capability, communications, indication and alarm panels, etc., which impairs ability to perform accident or emergency assessment.</u> 1. Loss of effluent or radiological monitoring capability requiring plant shutdown. <u>OR</u> 2. Loss of all primary and backup communication capability with offsite locations. <u>OR</u> 3. Unplanned loss of most or all Safety System annunciators for greater than 15 minutes.	<u>Loss of alarms</u> 1. Unplanned loss of all safety system annunciators. <u>AND</u> 2. Plant transient in progress.	<u>Loss of alarms</u> 1. Inability to monitor a significant transient in progress.	
8.B. <u>LOSS OF ALARMS / COMMUNICATION / MONITORING</u>				

AFTER CLASSIFYING, GO TO EPIP-02, DUTIES AND RESPONSIBILITIES OF THE EMERGENCY COORDINATOR

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EVENT/CLASS	UNUSUAL EVENT	ALERT	SITE AREA EMERGENCY	GENERAL EMERGENCY
9.A. <u>AIRCRAFT / MISSILE</u>	<u>Unusual aircraft activity</u> 1. Aircraft crash in the Owner Controlled Area or unusual aircraft activity over facility that in the opinion of the NPS/EC, could threaten the safety of the plant or personnel.	<u>Aircraft/missile impact</u> 1. Aircraft crash in the Owner Controlled Area damaging plant structures. <u>OR</u> 2. Visual or audible indication of missile impact on plant structures.	<u>Damage to vital systems from aircraft/missiles</u> 1. Aircraft crash in the Owner Controlled Area damaging vital plant systems. <u>OR</u> 2. Damage to safe shutdown equipment from any missile.	
9.B. <u>TURBINE FAILURE</u>	<u>Turbine rotating component failure causing rapid plant shutdown.</u>	<u>Visual indication that the turbine casing has been penetrated by blading.</u>		
9.C. <u>TOXIC OR FLAMMABLE GAS</u>	<u>Unplanned/uncontrolled toxic or flammable gas release in the Owner Controlled Area that could affect plant/personnel safety.</u>	<u>Entry of toxic or flammable gas into areas potentially affecting plant operation.</u>	<u>Toxic or flammable gas has diffused into vital areas affecting access to or the operation of safe shutdown equipment.</u>	
9.A. <u>AIRCRAFT / MISSILE</u>				
9.B. <u>TURBINE FAILURE</u>				
9.C. <u>TOXIC OR FLAMMABLE GAS</u>				

AFTER CLASSIFYING, GO TO EPIP-02, DUTIES AND RESPONSIBILITIES OF THE EMERGENCY COORDINATOR

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EVENT/CLASS	UNUSUAL EVENT	ALERT	SITE AREA EMERGENCY	GENERAL EMERGENCY
10. <u>SECURITY THREAT</u>	<p><u>A SECURITY ALERT has been called by the Security Force in response to one or more of the items listed below.</u></p> <ol style="list-style-type: none"> 1. Bomb threat 2. Attack threat 3. Civil disturbance 4. Protected area intrusion 5. Sabotage attempt 6. Internal disturbance 7. Vital area intrusion 8. Security force strike 	<p><u>A SECURITY EMERGENCY has been called by the Security Force as defined in the Safeguards Contingency Plan.</u></p>	<p><u>A SECURITY EMERGENCY involving imminent occupancy of the control room or other area(s) vital to the operation of the reactor as defined in the Safeguards Contingency Plan.</u></p>	<p><u>A successful takeover of the plant including the Control Room or any other area(s) vital to the operation of the reactor (as per the Security Plan).</u></p>
10. <u>SECURITY THREAT</u>	<p>AFTER CLASSIFYING, GO TO EPIP-02, DUTIES AND RESPONSIBILITIES OF THE EMERGENCY COORDINATOR</p>			



FPL

ST. LUCIE PLANT EMERGENCY PLAN IMPLEMENTING PROCEDURE

SAFETY RELATED

Procedure No.
EPIP-03

Current Rev. No.
6

Effective Date:
07/07/99

Title:

EMERGENCY RESPONSE ORGANIZATION NOTIFICATION/STAFF AUGMENTATION

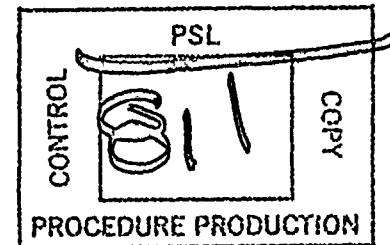
Responsible Department: **EMERGENCY PLANNING**

Revision Summary

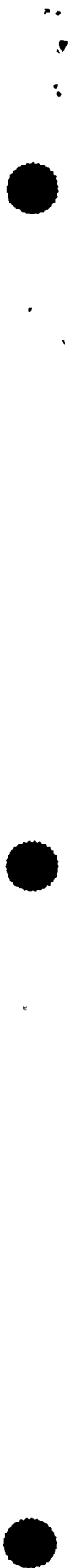
Revision 6 - Removed reference to the rotating maintenance shift supervisor from the definition/description of the duty call supervisor and revised security title from supervisor to specialist. (J. R. Walker, 07/01/99)

Revision 5 - Transferred EP responsibilities from the Training Manager to the Protection Services Manager. Made editorial changes and added new position -regulatory affairs. (J. R. Walker, 06/17/99)

Revision 4 - Added 2 new positions to call tree to address Security org. and added editorial/administrative changes. (J. R. Walker, 2/23/99)



Revision	FRG Review Date	Approved By	Approval Date	S__OPS
<u>0</u>	<u>12/15/97, 1/30/98</u>	<u>J. Scarola</u> Plant General Manager	<u>1/30/98</u>	DATE _____ DOCT <u>PROCEDURE</u> DOCN <u>EPIP-03</u> SYS _____ COMP <u>COMPLETED</u> ITM <u>6</u>
<u>6</u>	<u>07/01/99</u>	<u>R. G. West</u> Plant General Manager	<u>07/01/99</u>	
		<u>N/A</u> Designated Approver		



1/18

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1.0 PURPOSE

This procedure provides instructions to:

- 1.1 Activate the St. Lucie Plant Emergency Response Organization (ERO) for staff augmentation in response to an emergency declaration.
- 1.2 Conduct a quarterly update/verification of the ERO.

2.0 REFERENCES/RECORDS REQUIRED/COMMITMENT DOCUMENTS

NOTE

One or more of the following symbols may be used in this procedure:

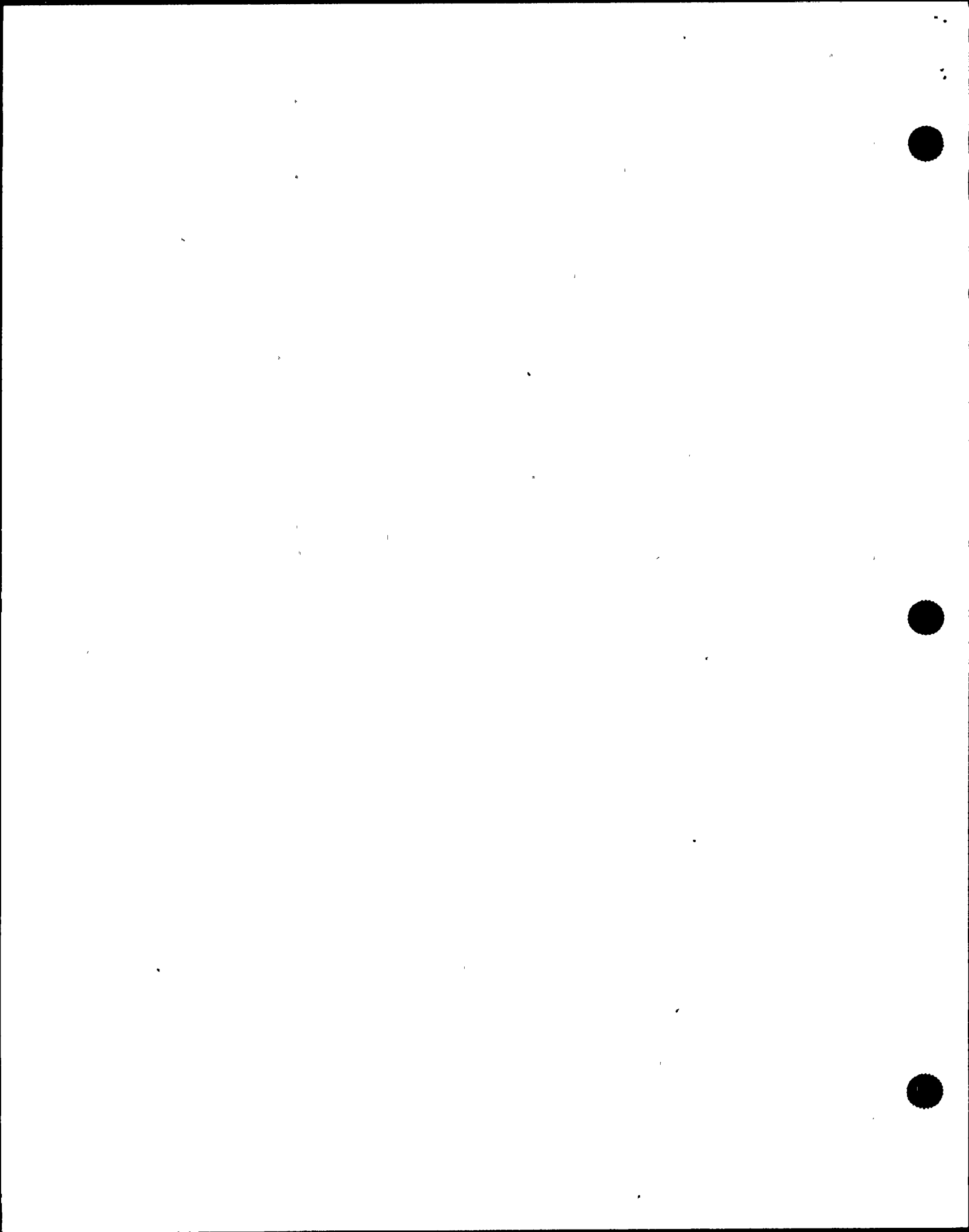
- § Indicates a Regulatory commitment made by Technical Specifications, Condition of License, Audit, LER, Bulletin, etc., and shall NOT be revised without Facility Review Group review and Plant General Manager approval.
- ¶ Indicates a management directive, vendor recommendation, plant practice or other non-regulatory commitment that should NOT be revised without consultation with the plant staff.

2.1 References

1. St. Lucie Plant Radiological Emergency Plan (E-Plan)
2. E-Plan Implementing Procedures (EPIP 00-13)
3. HP-200, Health Physics Emergency Organization
4. AP 0010120, Conduct of Operations
5. ADM-15.04, Fitness For Duty - Call-Out and For Cause Testing
6. St. Lucie Plant Emergency Response Directory (ERD)
7. QI-17-PSL-1, Quality Assurance Records

2.2 Records Required

None



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2.0 REFERENCES/RECORDS REQUIRED/COMMITMENT DOCUMENTS
(continued)

2.3 Commitment Documents

None

3.0 RESPONSIBILITIES

3.1 The Emergency Coordinator (EC) has the overall responsibility for the notification and callout of the ERO as provided for in EPIP-02, Duties and Responsibilities of the Emergency Coordinator.

3.2 The Duty Call Supervisor (DCS)

1. The Duty Call Supervisor reports to the affected Unit Control Room upon declaration of the emergency, If the unaffected Unit ANPS assumes the role of DCS, Then he/she shall fulfill the responsibilities without leaving the unaffected Control Room.

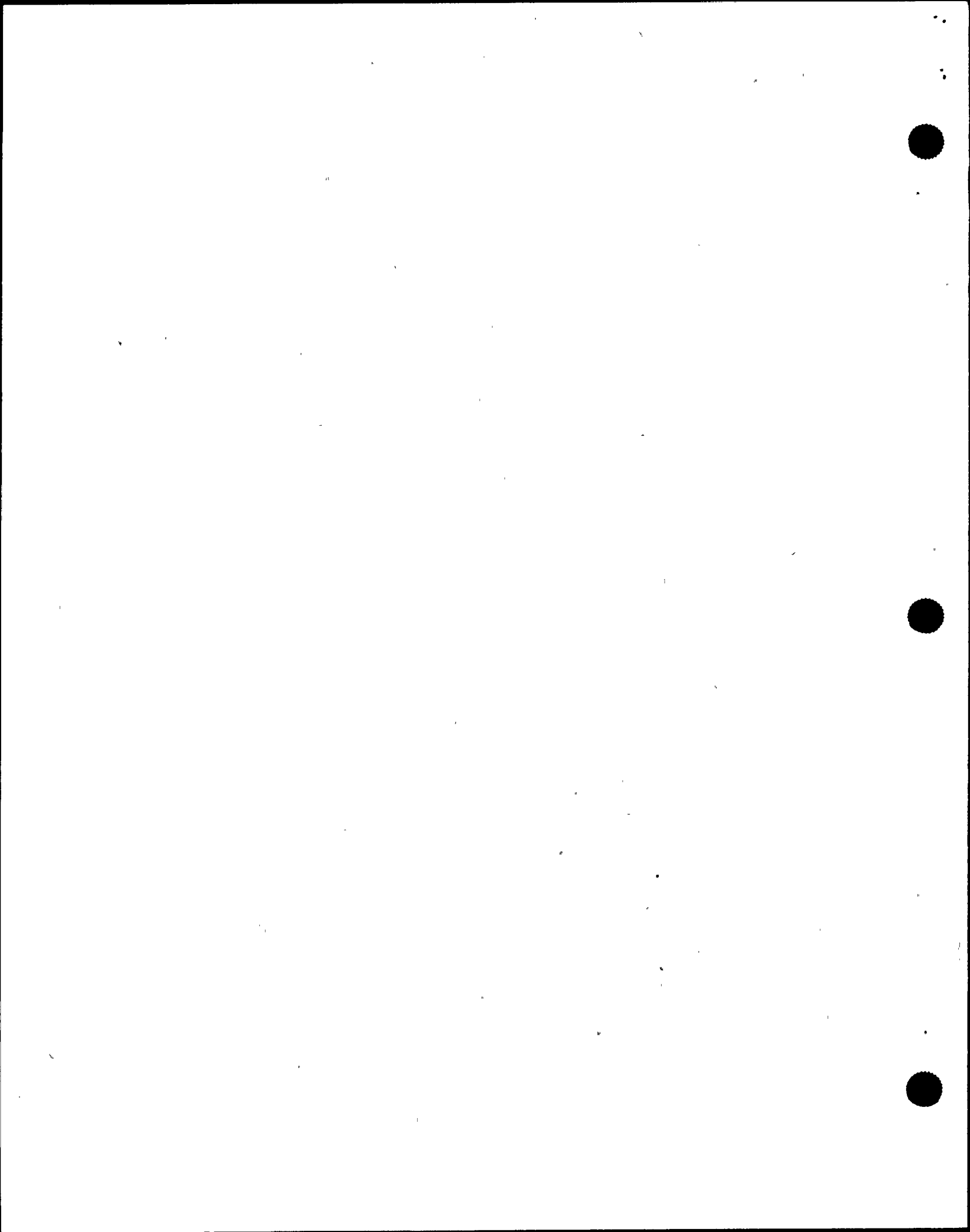
2. Complete the following as directed by the NPS/EC:

- A. State Notification Form (EPIP-02).
- B. Off-site notifications (EPIP-02).
- C. Staff augmentation (per this procedure).
- D. Operations Department Accountability Aid.

3. Conduct a turnover with the TSC OPS Coordinator (NPS Communicator in the Control Room) regarding the status of communications and other tasks underway.

3.3 Members of the Emergency Response Organization (ERO):

- 1. Advise the Protection Services Manager when his/her duties are changed such that he/she can no longer participate in the ERO.
- 2. Maintain a copy of the ERD readily available 24 hours a day (individuals with callout duties only).



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3.0 RESPONSIBILITIES (continued)

3.3 Members of the Emergency Response Organization (ERO): (continued)

3. Make notifications, as required by their position, when notified by the DCS, in accordance with the instructions contained in the ERD.
4. When notified, report to the assigned Emergency Response Facility (ERF).

3.4 Protection Services Manager

1. Ensure verification of the following for ERO personnel quarterly:
 - A. Personnel phone/beeper numbers
 - B. Training qualifications in accordance with EPIP-12, Maintaining Emergency Preparedness, Radiological Emergency Plan Training.

4.0 DEFINITIONS

4.1 Autodialer

See FPL Emergency Recall System below.

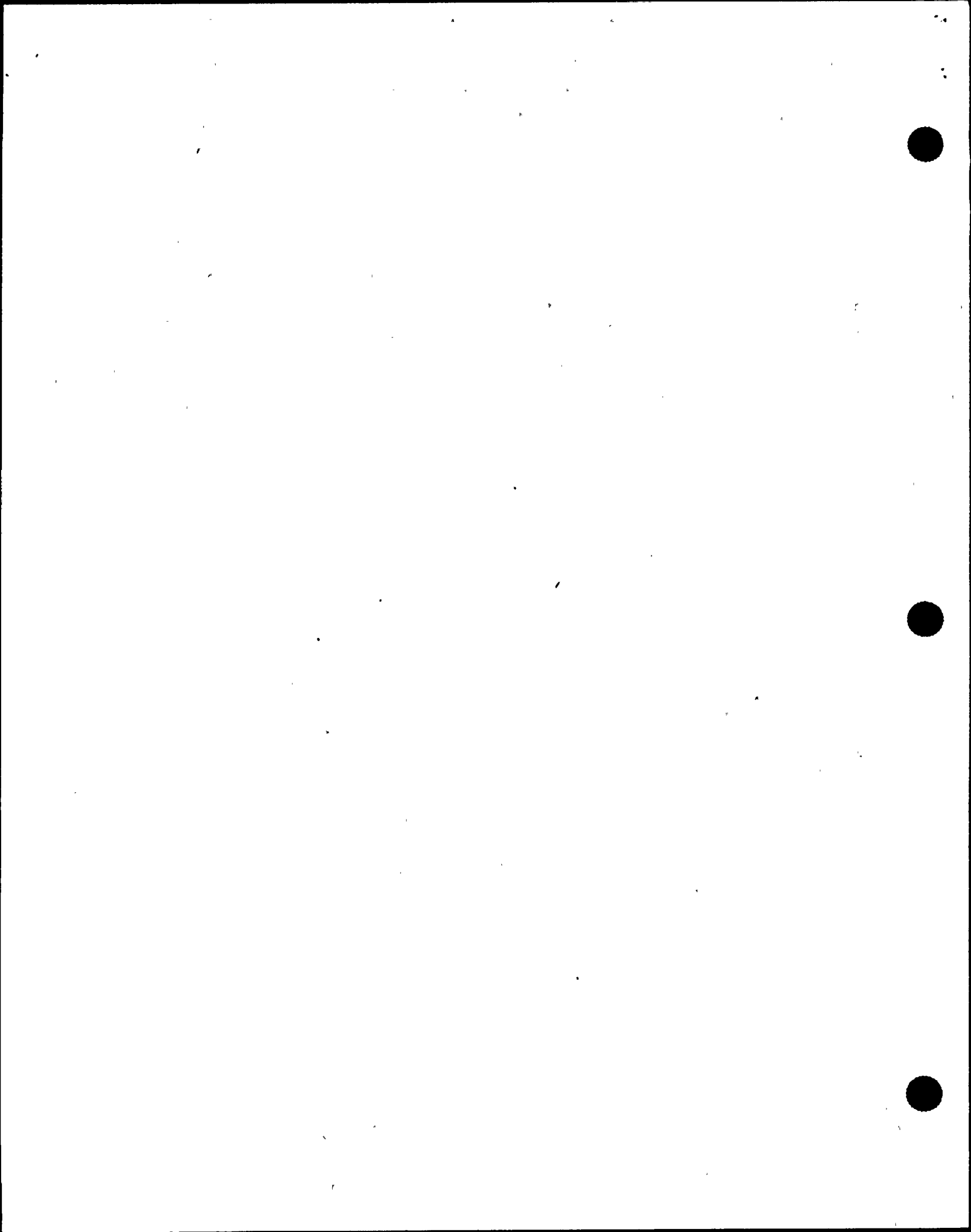
4.2 Duty Call Supervisor (DCS)

The Duty Call Supervisor is a specifically designated and trained supervisor responsible for assisting the Emergency Coordinator in making notifications and calls to the Emergency Response Organization.

/R6

4.3 Emergency Response Organization (ERO)

A trained group of personnel that are designated to perform specific duties during emergencies.



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4.0 DEFINITIONS (continued)

4.4 St. Lucie Plant Emergency Response Directory (ERD)

A printed directory which provides guidance for performing a call-out of the Emergency Response Organization. The ERD contains the names, positions, home phone numbers, and pager numbers for the members of the ERO.

4.5 FPL Emergency Recall System (ERS)

A computer-based automated call-out system used to activate the ERO. This system is also referred to as the "autodialer".

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5.0 INSTRUCTIONS

5.1 Emergency Coordinator (EC)

1. Instructions for the EC are located in EPIP-02, Duties and Responsibilities of the Emergency Coordinator.

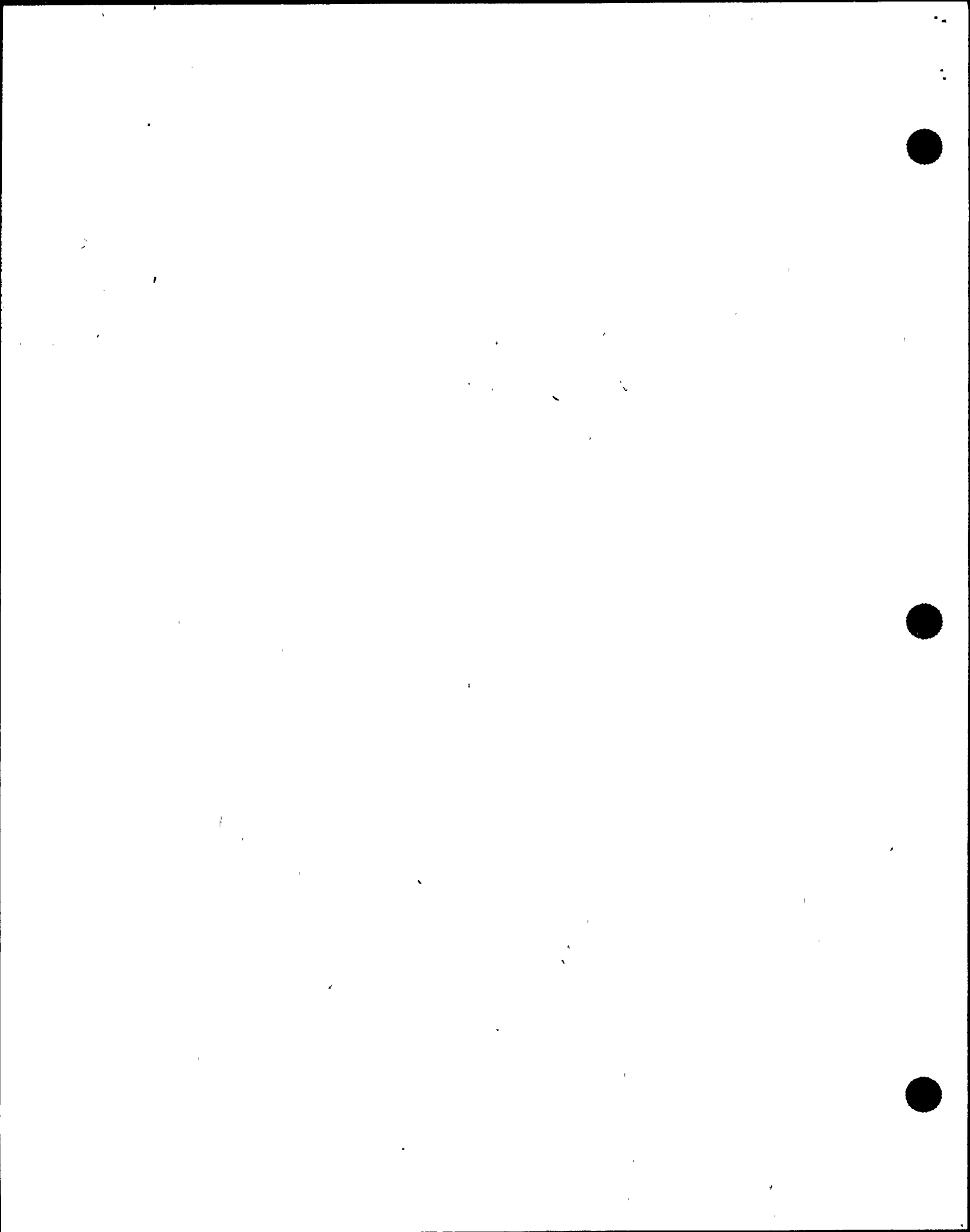
END OF SECTION 5.1

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5.0 INSTRUCTIONS (continued)

5.2 Duty Call Supervisor (DCS)

1. Initiate call-out of ERO members as directed by the EC.
 - A. Instructions for activation of the autodialer are located in the Duty Call Supervisor Notebook which is maintained in accordance with Appendix E to AP-0010120, Conduct of Operations.
2. If during normal working hours, Then activate autodialer only.
 - A. Do NOT call-out ERO members using the ERD.
3. If during off normal working hours, Then begin call-out of ERO members, as detailed in the ERD, after initiating the autodialer.
 - A. Notify Security Shift Specialist AND HP Shift Supervisor/On-shift Tech by plant radio or other prompt means. /R6
 - B. Notify each of the following positions by cell/page/radio:
 1. Emergency Coordinator
 2. Recovery Manager
 3. Nuclear Division Duty Officer
 - C. If autodialer has NOT activated, Then continue to notify the following:
 1. TSC Chemistry Supervisor
 2. TSC EP Coordinator
 3. EP Manager
 4. EOF Emergency Technical Manager
 5. TSC Coordinator with OSC.



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5.0 INSTRUCTIONS (continued)

5.2 Duty Call Supervisor (DCS) (continued)

3. (continued)

D. When the responder answers, CLEARLY STATE THE FOLLOWING:

1. This is (your name), functioning as Duty Call Supervisor.
2. This is an/a (actual emergency/call-out drill/phone test) message.
3. St. Lucie Plant has declared an/a (ALERT / SITE AREA EMERGENCY / GENERAL EMERGENCY) OR is conducting a (call-out drill/phone test).
4. I am calling you for the position of (state position from Step 5.2.3 above).

a. Are you fit for duty and able to respond?

(If YES: record name on call-out list and continue with questions).

(If NO: Terminate the call and go to next person for the position.)

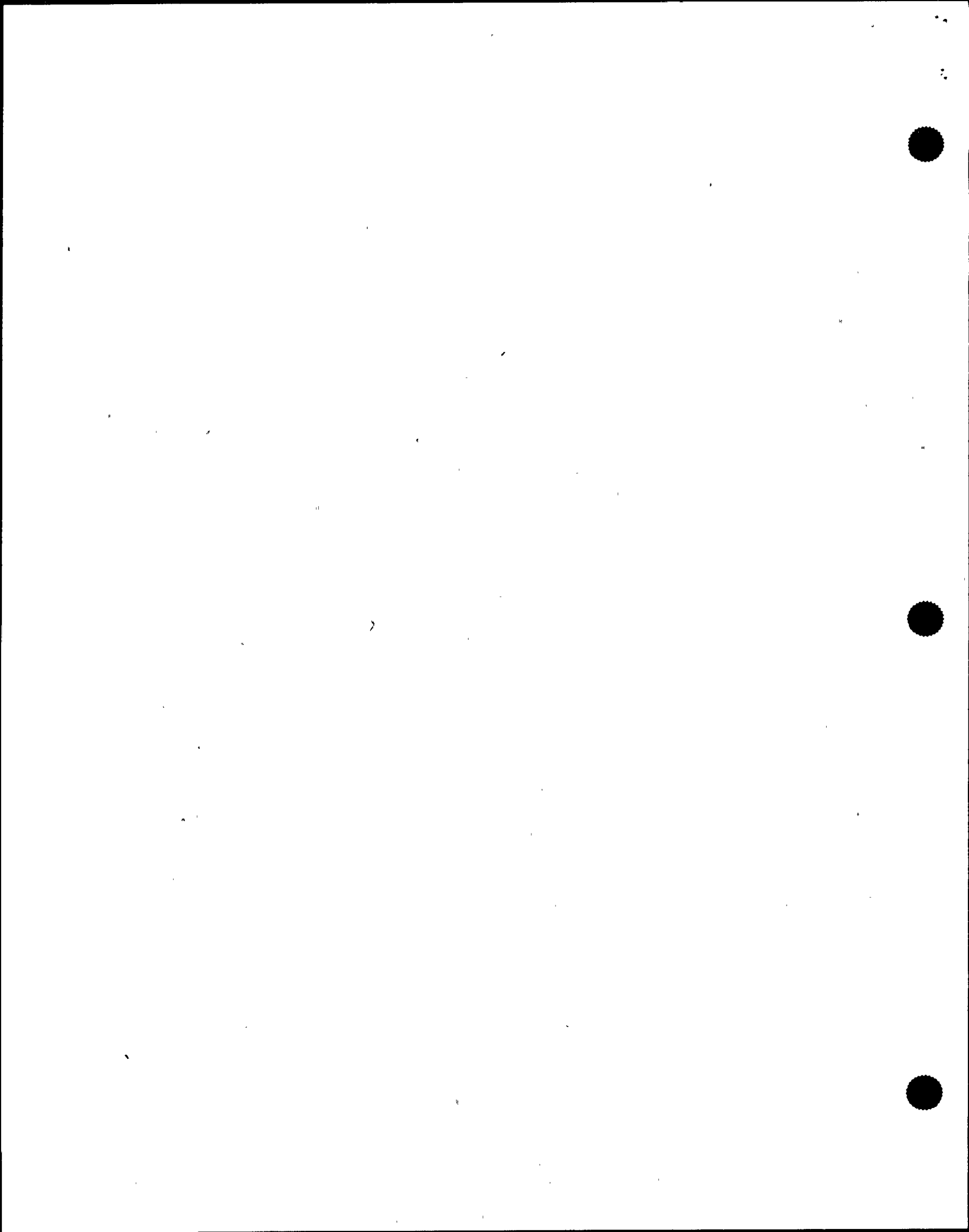
b. What is your estimated drive time to your emergency response facility?

(Record estimated arrival time under ETA on call-out list).

5. Promptly complete your call tree section if applicable and report to your emergency response facility.

OR

This is a phone test only, DO NOT report to your emergency response facility after completing your calls.



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5.0 INSTRUCTIONS (continued)

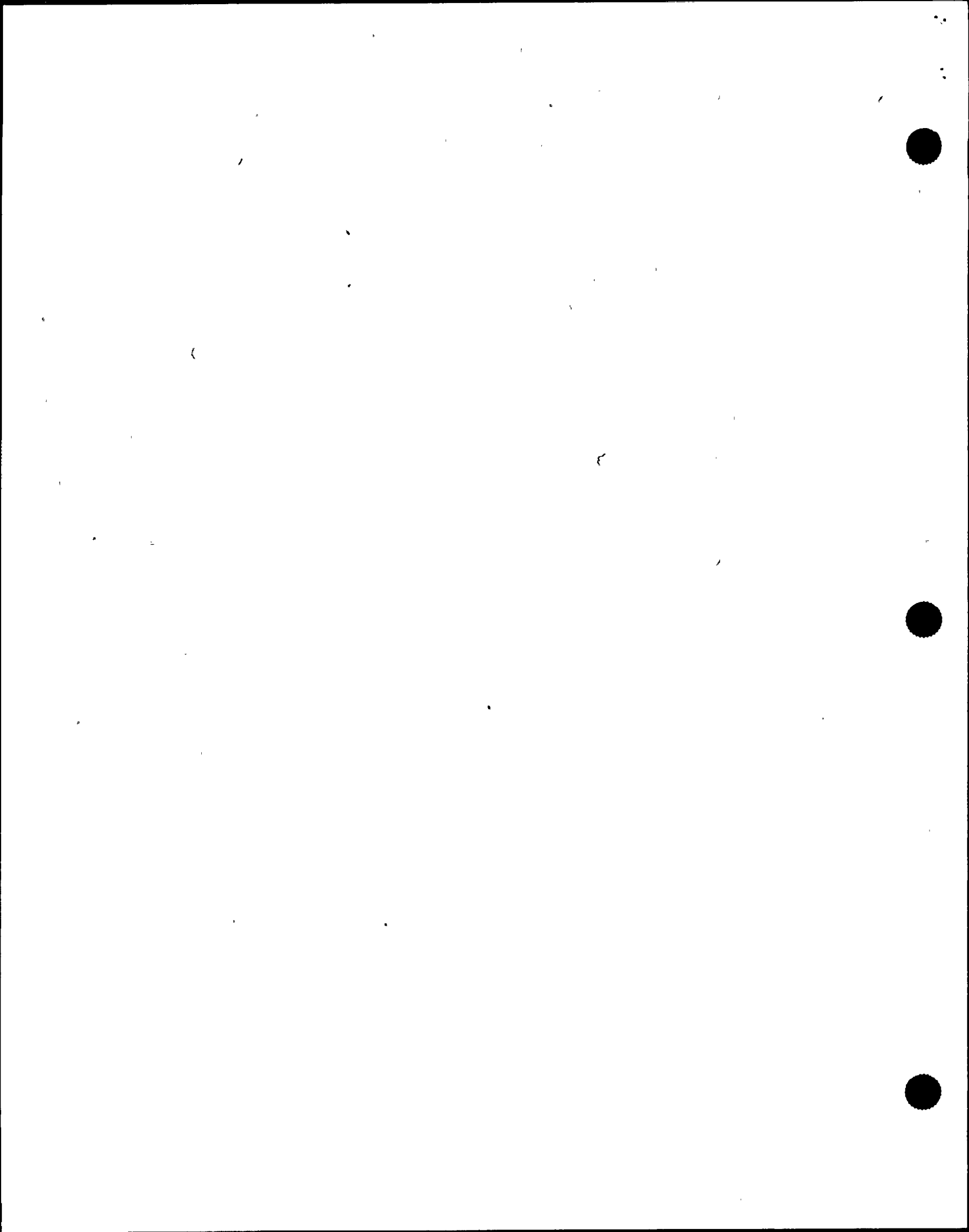
5.2 Duty Call Supervisor (DCS) (continued)

3. (continued)

- E. If autodialer activation is indicated, Then NOTIFY Security Shift Specialist and HP Shift Supervisor/On-shift Tech to suspend call-out.

/R6

END OF SECTION 5.2



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5.0 INSTRUCTIONS (continued)

5.3 ERO Members with Call Tree Duties

1. Maintain a current copy of the ERD for use at all times.
2. Perform manual call-outs as instructed by the DCS and ERD.
 - A. Begin at the top of your call list and proceed down the list until either:

An individual is contacted to fill each position

OR

All positions have been attempted once.

B. When the responder answers, CLEARLY STATE THE FOLLOWING:

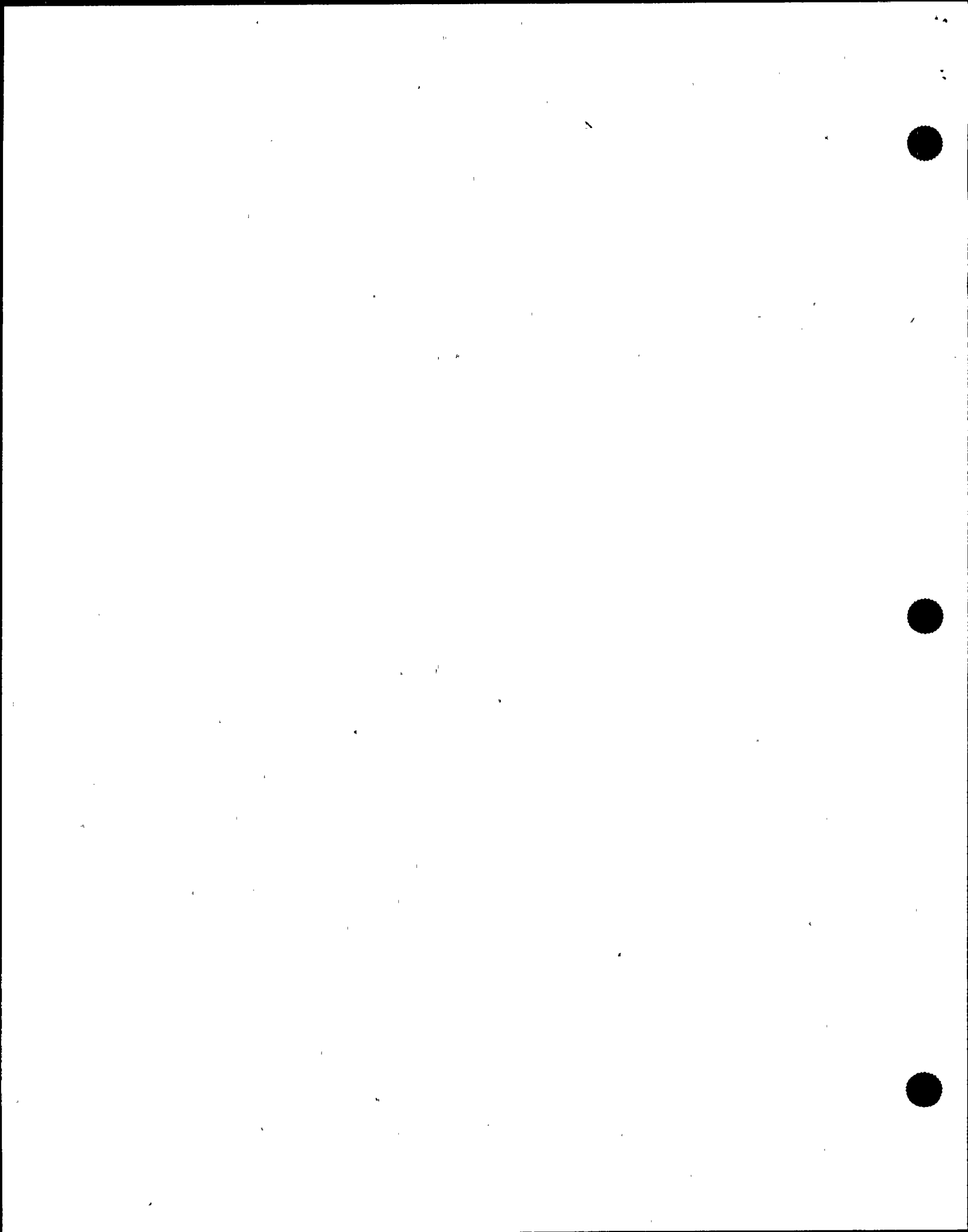
1. This is (your name), functioning as (ERO position title).
2. This is an/a (actual emergency/call-out drill/phone test) message.
3. St. Lucie Plant has declared an/a (ALERT / SITE AREA EMERGENCY / GENERAL EMERGENCY) OR is conducting a (call-out drill/phone test).
4. I am calling you for the position of (state position from ERD Call-out Phone List).

- a. Are you fit for duty and able to respond?

(If YES: check name on call-out list and continue with questions).

(If NO: Terminate the call and go to next person for the position.)

- b. What is your estimated drive time to your emergency response facility?
(Record estimated arrival time under ETA on call-out list).



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5.0 INSTRUCTIONS (continued)

5.3 ERO Members with Call Tree Duties (continued)

2. (continued)

B. (continued)

5. Promptly report to your emergency facility.

OR

This is a phone test only, DO NOT report to your emergency response facility.

C. Report to assigned emergency response facility upon completion of call-outs and furnish call-out data to facility manager.

If consumed alcohol in the past 5 hours, Then report to Security prior to entering the site or EOF.

END OF SECTION 5.3

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5.0 INSTRUCTIONS (continued)

5.4 ERO Members with no call-out duties

Report at once to your assigned emergency response facility.

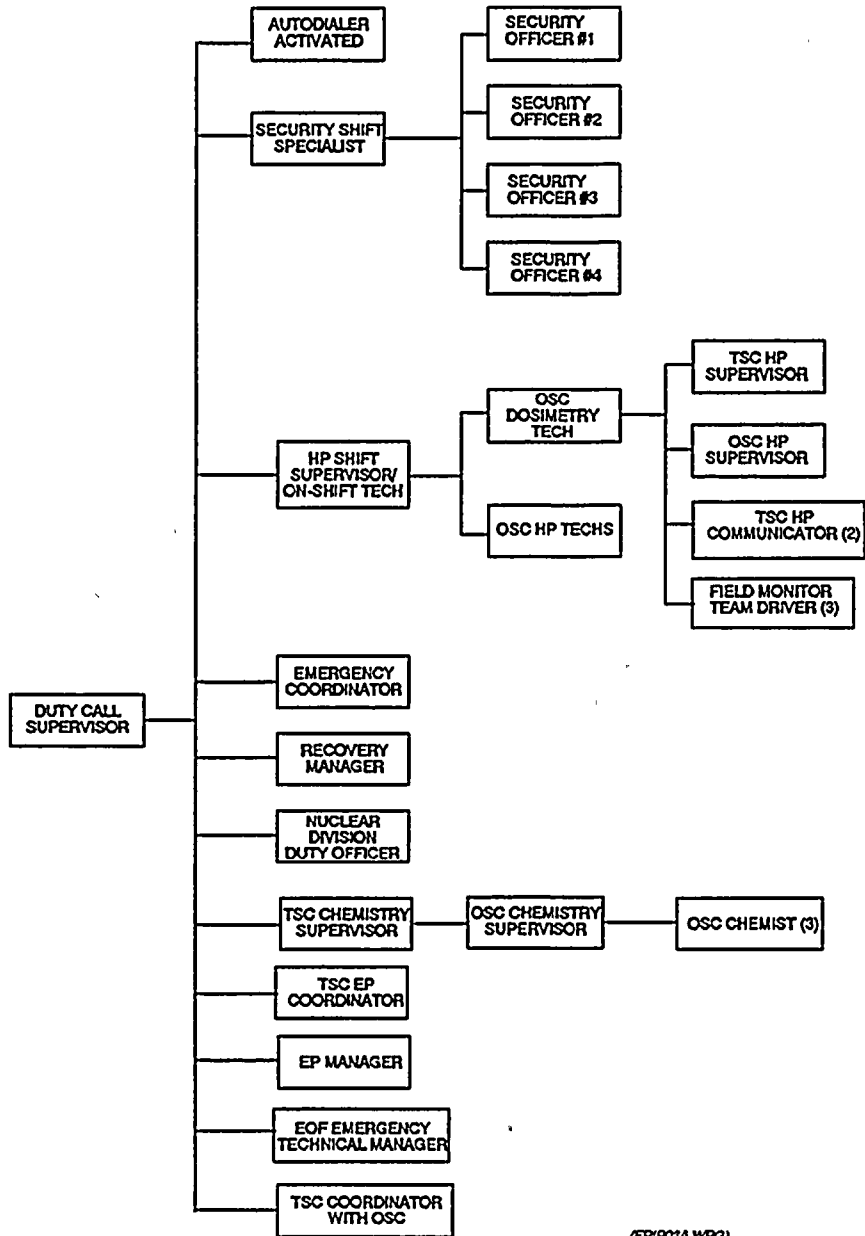
If consumed alcohol in the past 5 hours, Then report to Security prior to entering the site or EOF.

END OF SECTION 5.4

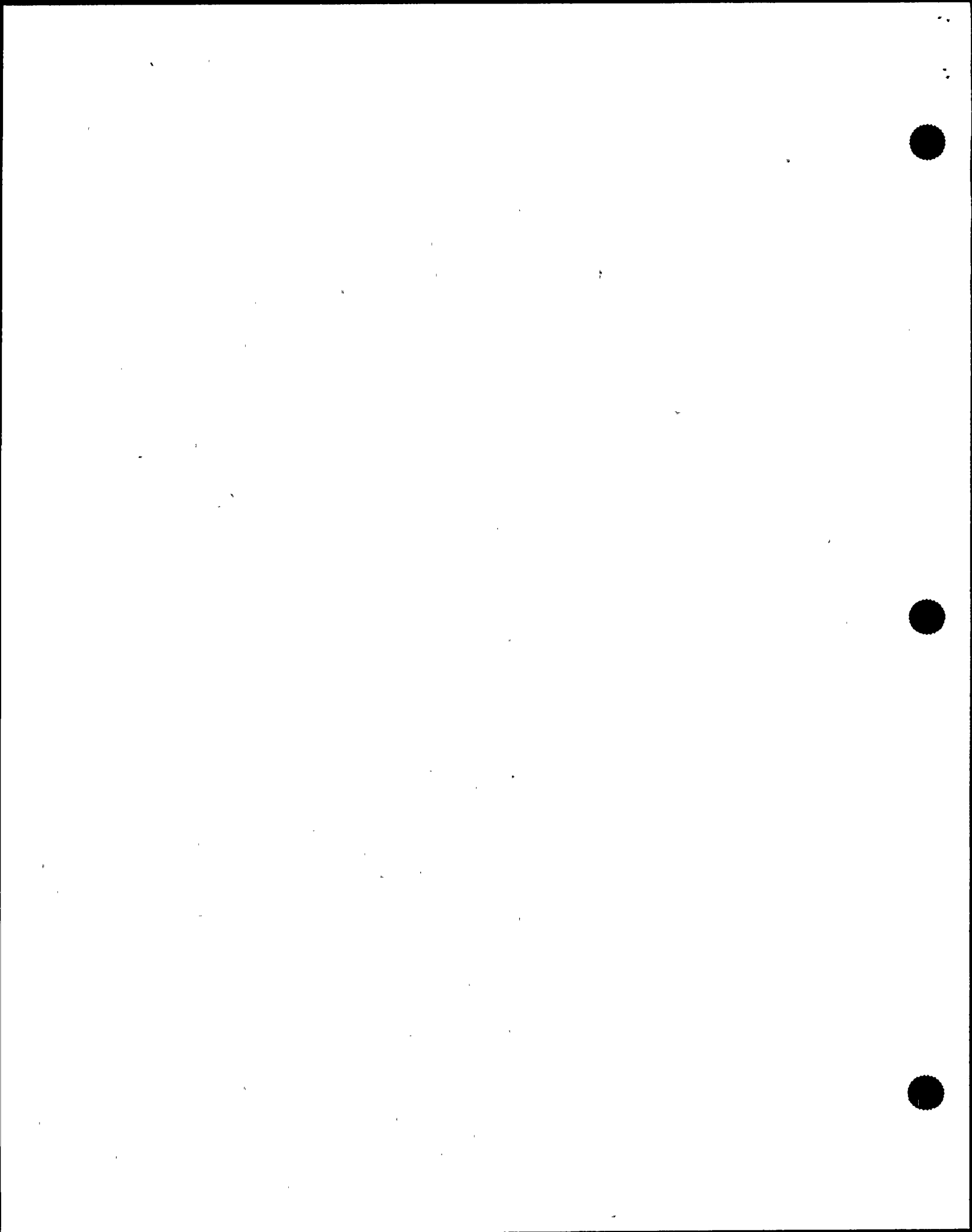


**ATTACHMENT 1
EMERGENCY STAFFING CALL TREE
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DUTY CALL SUPERVISOR



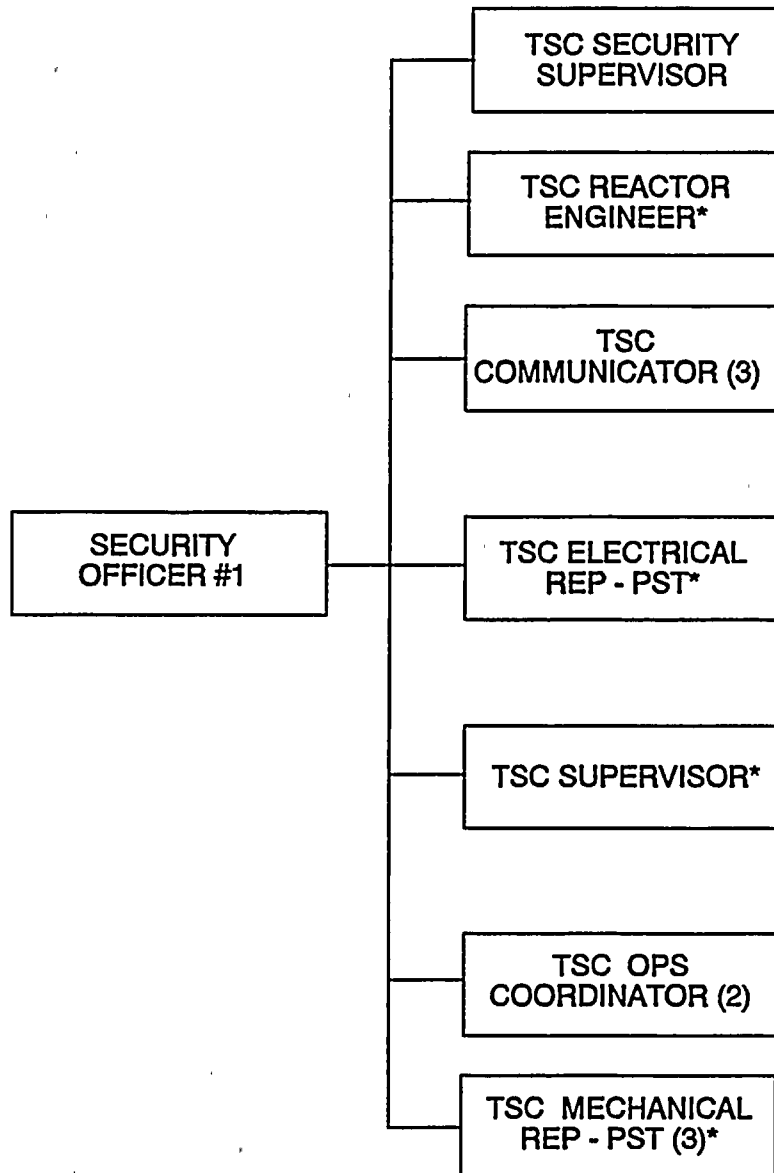
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REVISION NO.: 6	PROCEDURE TITLE: EMERGENCY RESPONSE ORGANIZATION NOTIFICATION/STAFF AUGMENTATION	PAGE: 15 of 24
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**ATTACHMENT 1
EMERGENCY STAFFING CALL TREE
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SECURITY GUARD #1



* MINIMUM STAFFING POSITION OR FIRST LINE ALTERNATE TO MINIMUM STAFFING POSITION

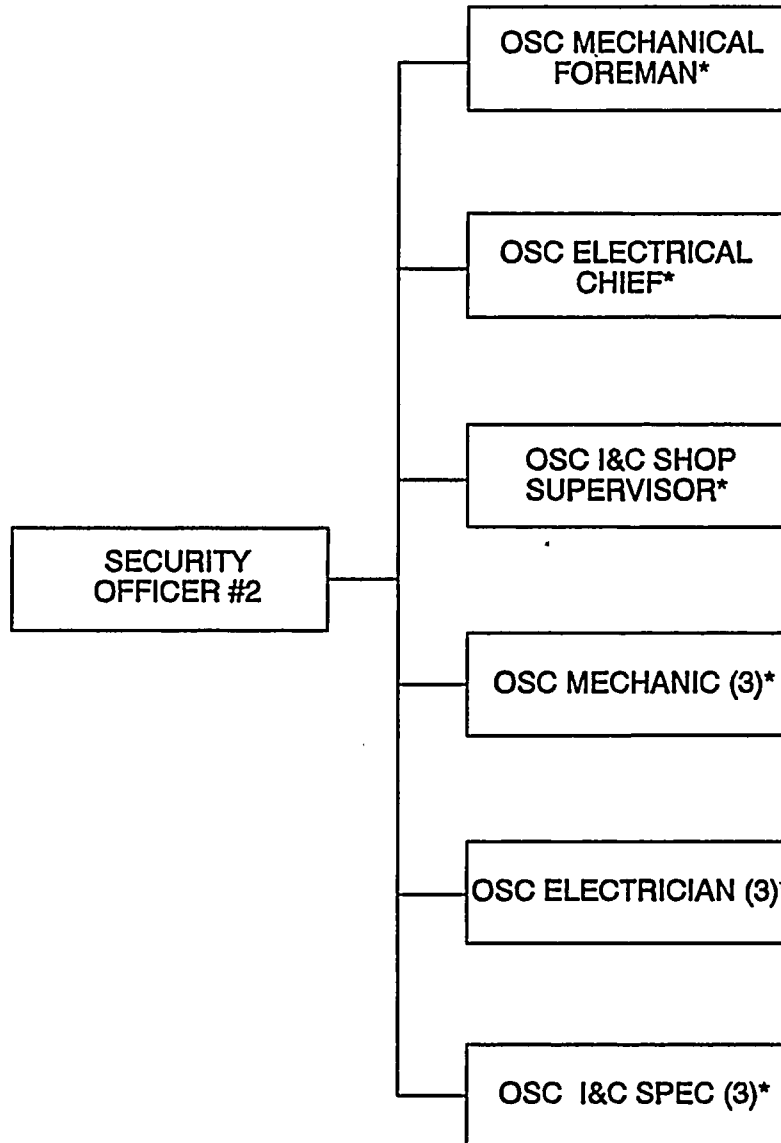
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REVISION NO.: 6	PROCEDURE TITLE: EMERGENCY RESPONSE ORGANIZATION NOTIFICATION/STAFF AUGMENTATION	PAGE: 16 of 24
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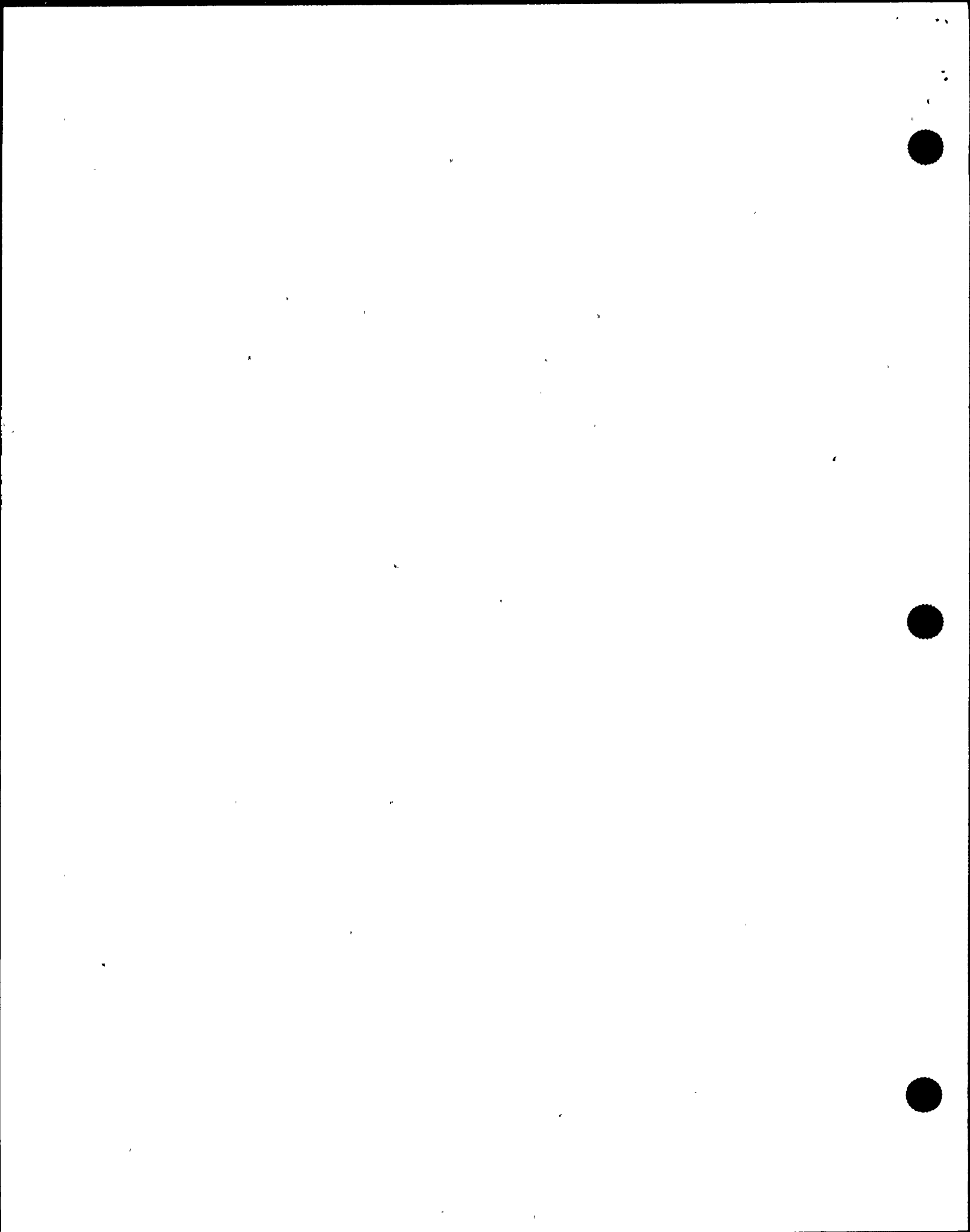
**ATTACHMENT 1
EMERGENCY STAFFING CALL TREE
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SECURITY GUARD #2



* MINIMUM STAFFING POSITION OR FIRST LINE ALTERNATE TO MINIMUM STAFFING POSITION

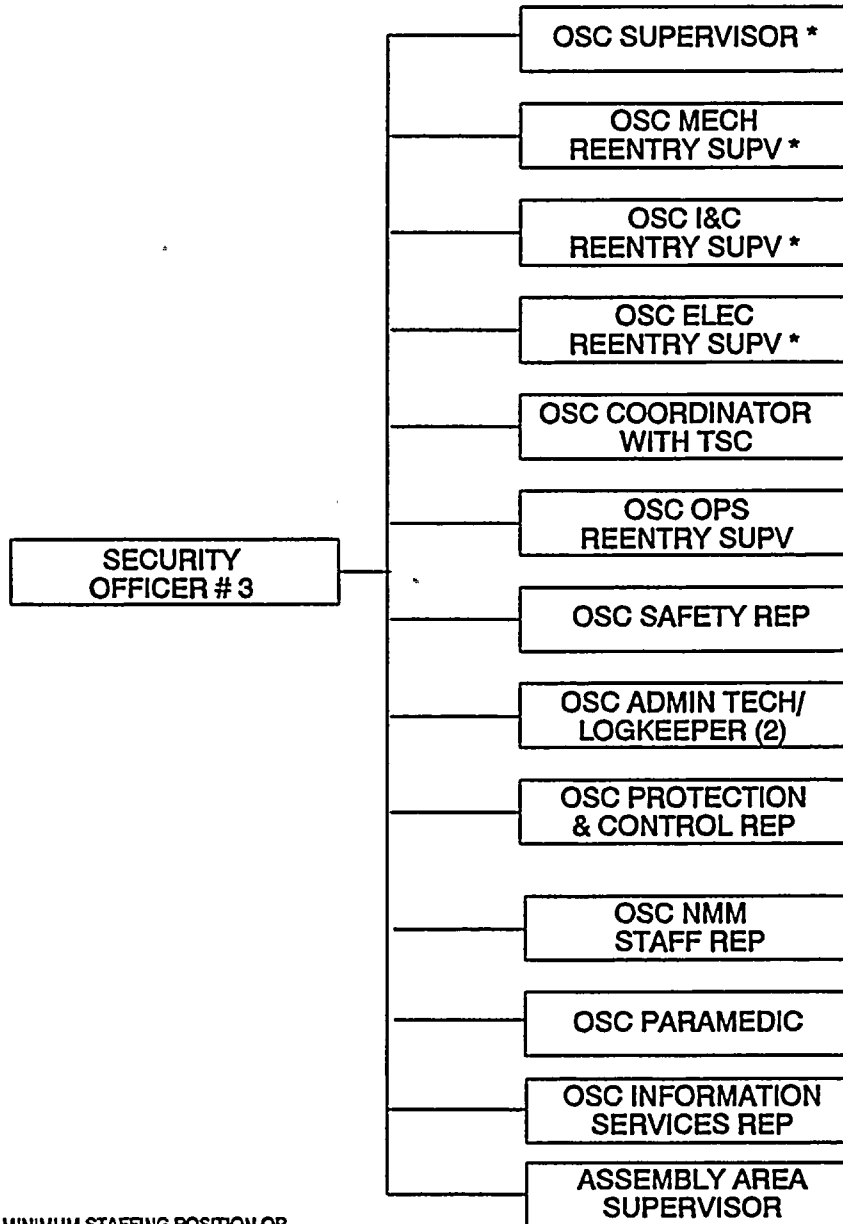
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REVISION NO.: 6	PROCEDURE TITLE: EMERGENCY RESPONSE ORGANIZATION NOTIFICATION/STAFF AUGMENTATION	PAGE: 17 of 24
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**ATTACHMENT 1
EMERGENCY STAFFING CALL TREE
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SECURITY GUARD #3



* MINIMUM STAFFING POSITION OR
FIRST LINE ALTERNATE
TO MINIMUM STAFFING POSITION

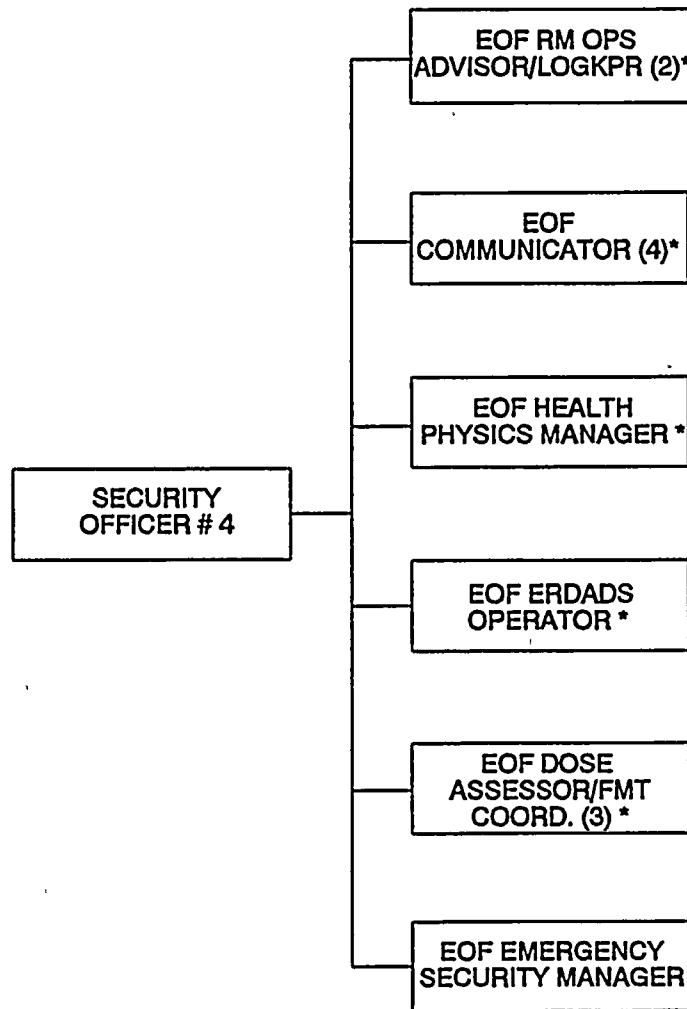
(EPIP03D.WPG)



REVISION NO.: 6	PROCEDURE TITLE: EMERGENCY RESPONSE ORGANIZATION NOTIFICATION/STAFF AUGMENTATION	PAGE: 18 of 24
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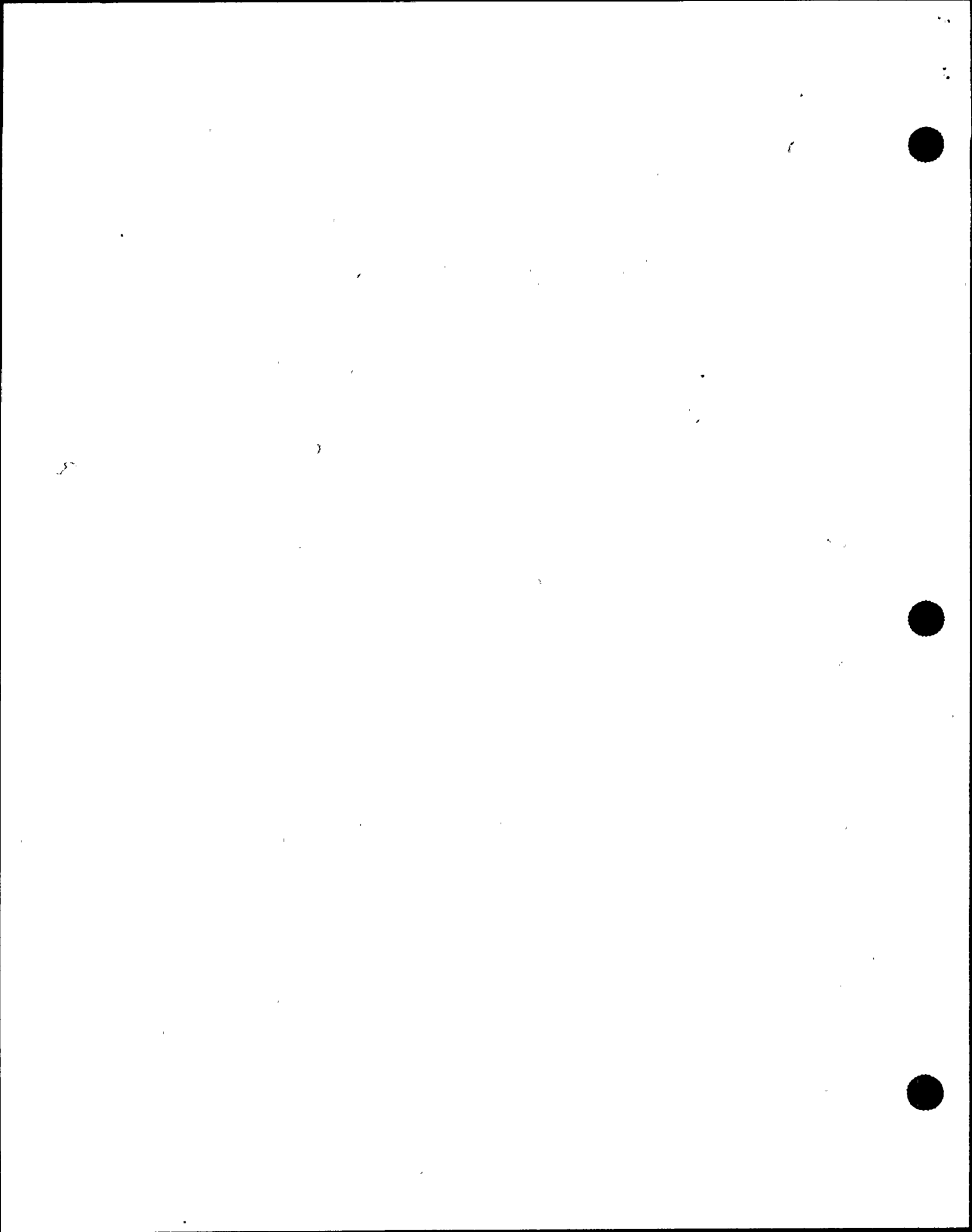
**ATTACHMENT 1
EMERGENCY STAFFING CALL TREE
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SECURITY GUARD #4



* MINIMUM STAFFING POSITION QB FIRST LINE ALTERNATE TO MINIMUM STAFFING POSITION

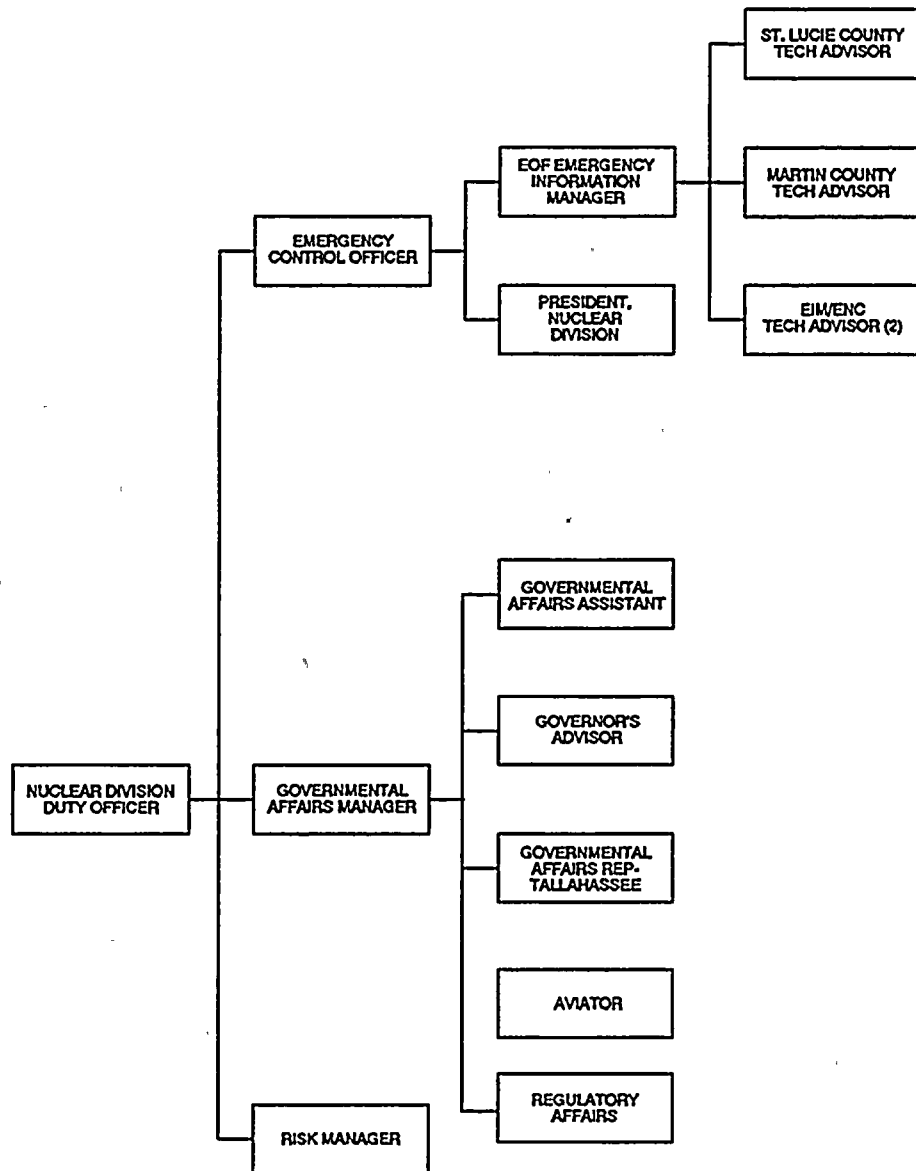
(EPIP03E.WPG)



REVISION NO.: 6	PROCEDURE TITLE: EMERGENCY RESPONSE ORGANIZATION NOTIFICATION/STAFF AUGMENTATION	PAGE: 19 of 24
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EMERGENCY STAFFING CALL TREE
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NUCLEAR DIVISION DUTY OFFICER

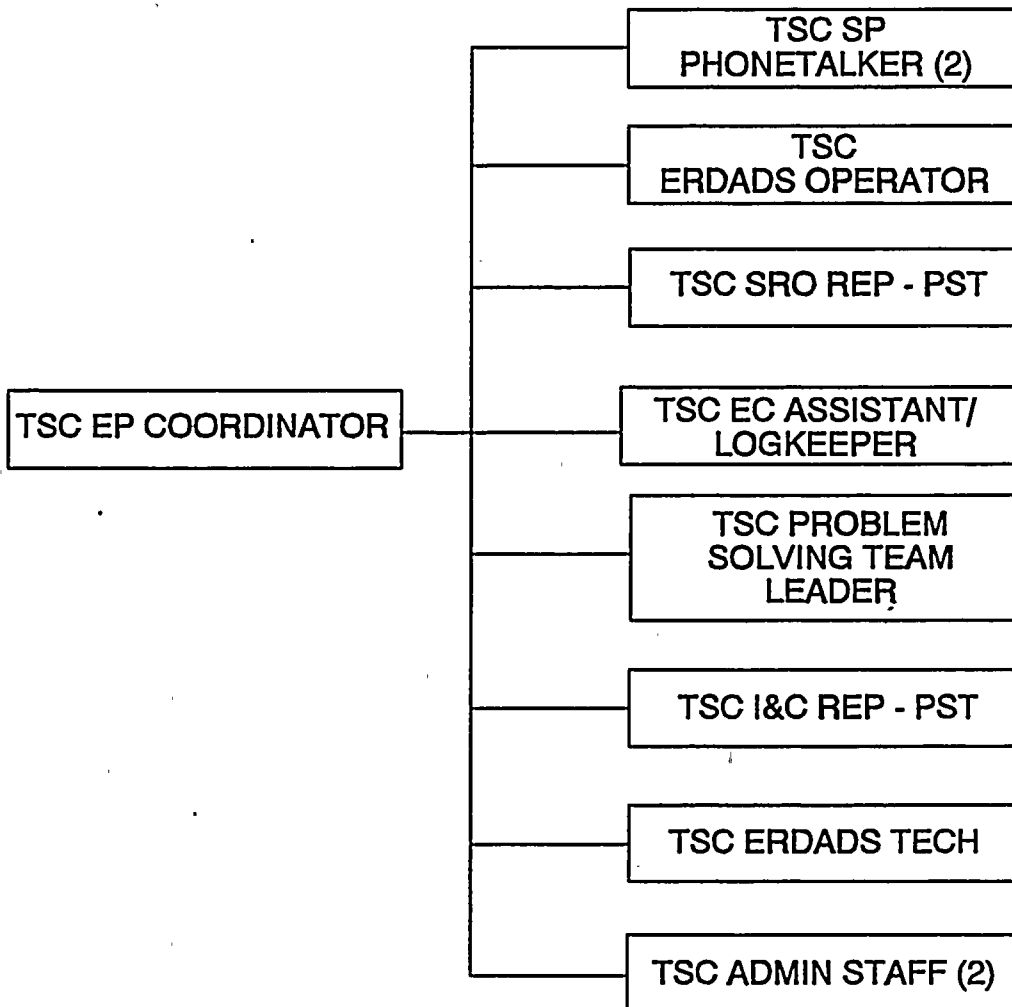


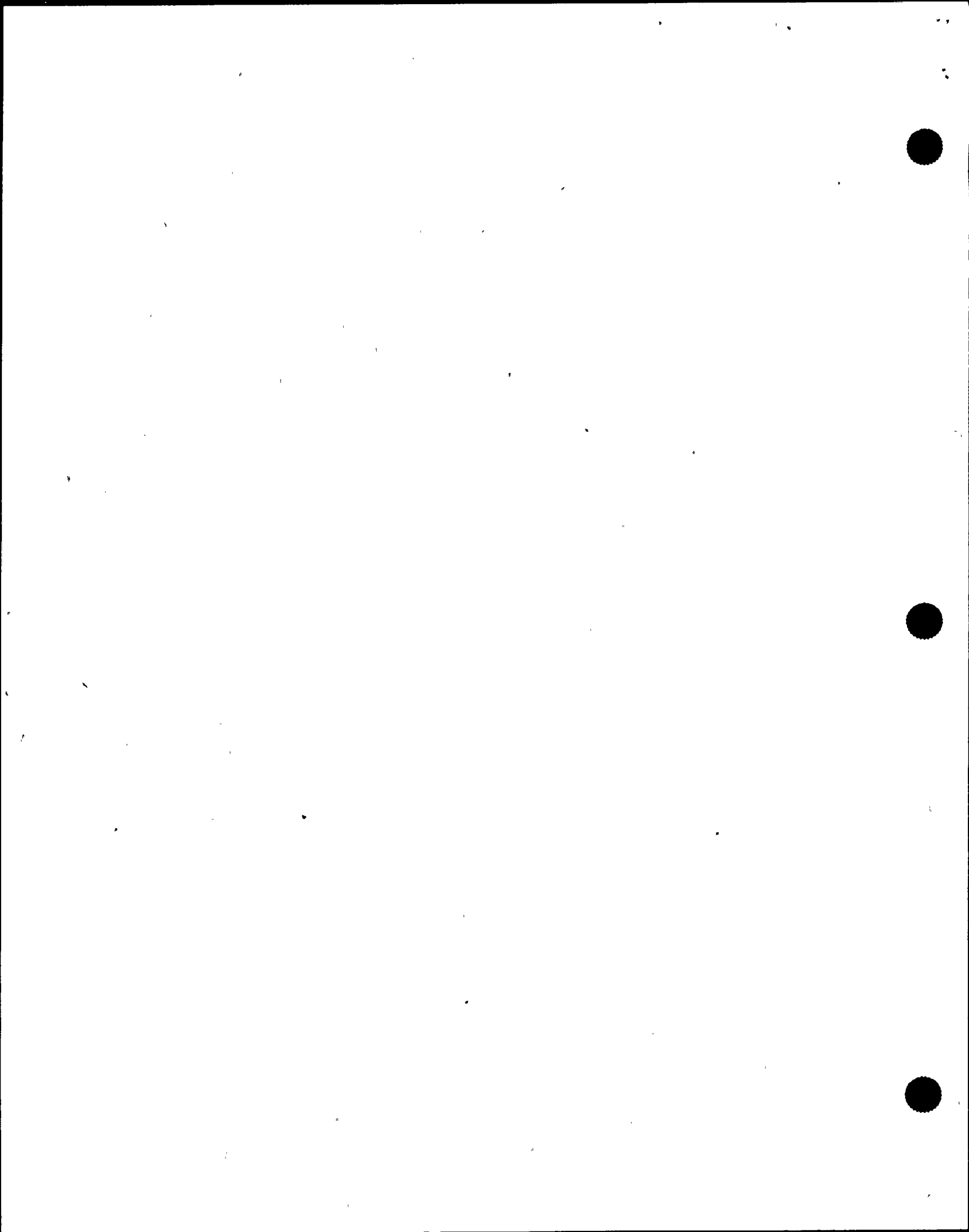
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REVISION NO.: 6	PROCEDURE TITLE: EMERGENCY RESPONSE ORGANIZATION NOTIFICATION/STAFF AUGMENTATION	PAGE: 20 of 24
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TSC EP COORDINATOR

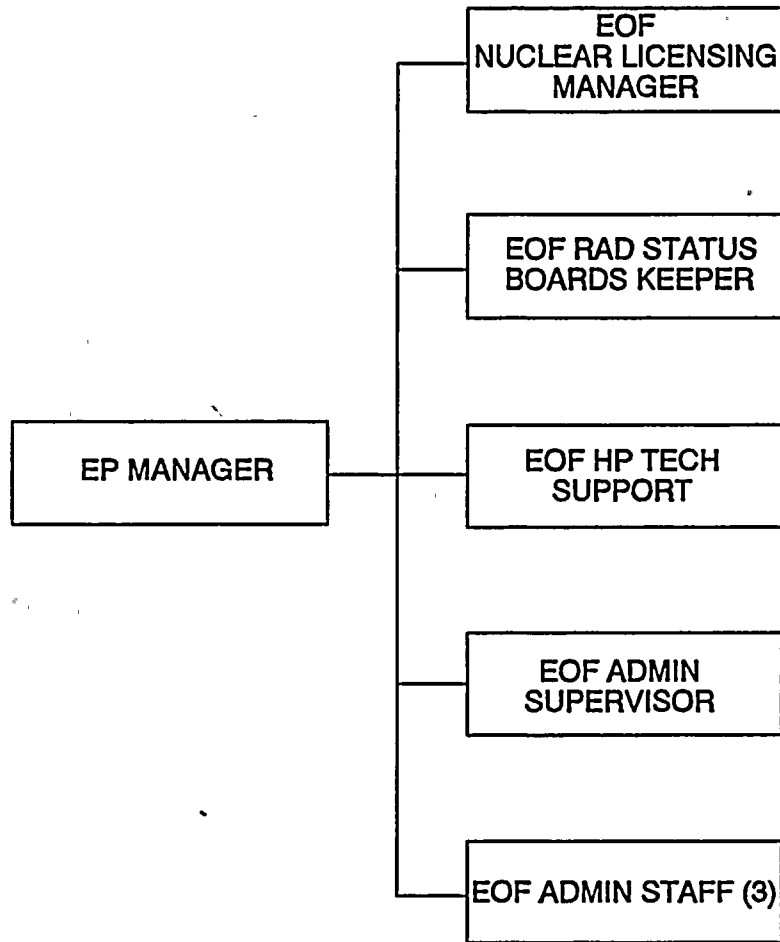




REVISION NO.: 6	PROCEDURE TITLE: EMERGENCY RESPONSE ORGANIZATION NOTIFICATION/STAFF AUGMENTATION	PAGE: 21 of 24
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**ATTACHMENT 1
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EP MANAGER



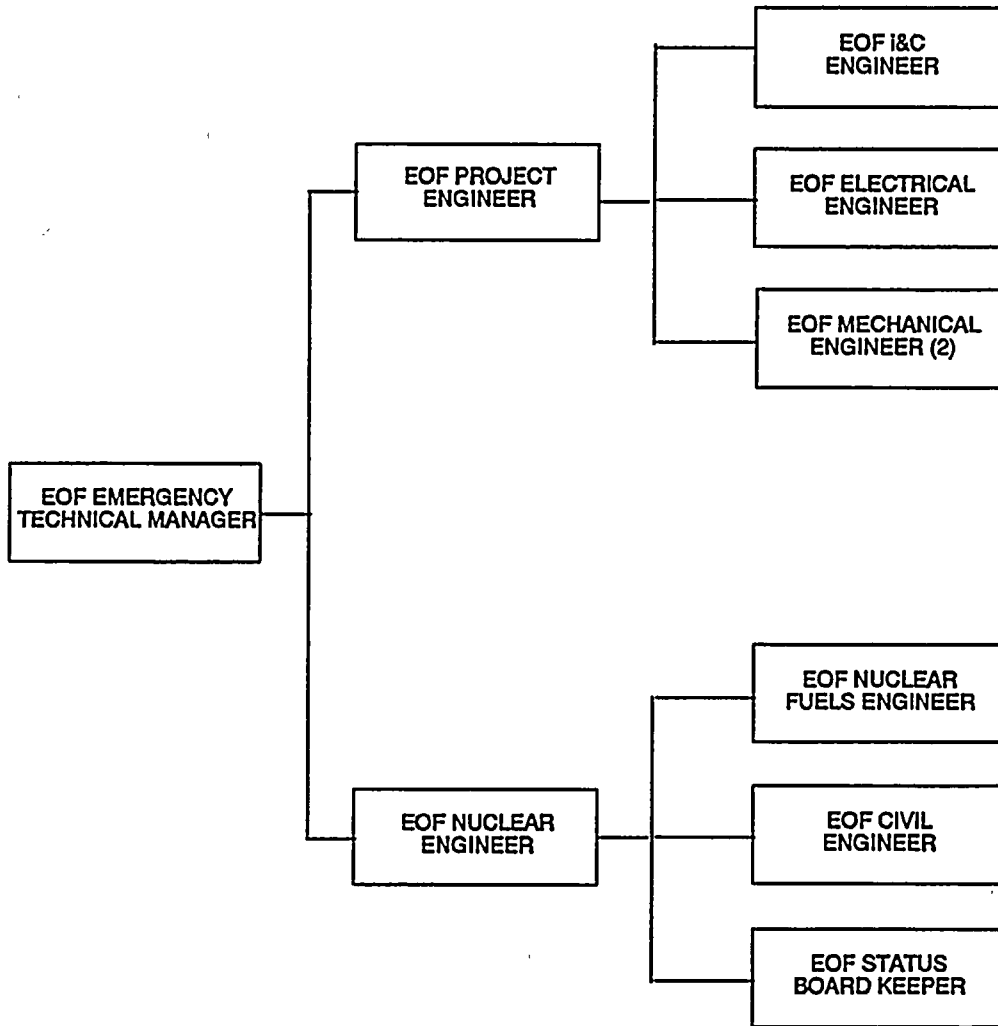
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REVISION NO.: 6	PROCEDURE TITLE: EMERGENCY RESPONSE ORGANIZATION NOTIFICATION/STAFF AUGMENTATION	PAGE: 22 of 24
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EOF EMERGENCY TECHNICAL MANAGER



(EPIP03LWPG)

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**ATTACHMENT 1
EMERGENCY STAFFING CALL TREE**
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Emergency Response Organization Positions List

Position	Title	Position	Title
100	Duty Call Supervisor	161	OSC Electrician (3)
101	Emergency Coordinator	162	OSC Mechanic (3)
102	TSC Supervisor	163	OSC I&C Specialist (3)
103	TSC HP Supervisor	166	OSC Dosimetry Technician
104	TSC Chemistry Supervisor	167	OSC Paramedic
105	TSC Reactor Engineer	168	OSC Mechanical Foreman
106	TSC Communicator (3)	169	OSC NMM Staff Rep
107	TSC Elec Rep - Problem Solving Tm	170	OSC Safety Rep
108	TSC Mech Rep - Problem Solving Tm (3)	171	OSC Admin Tech/Logkeeper (2)
109*	HP Shift Supervisor/On Shift Tech	172	Assembly Area Supervisor
110	TSC Ops Coordinator (2)	173	OSC Ops Reentry Supervisor
111	TSC Dose Assessor	174	OSC Protection and Control Rep
112	TSC HP Communicator (2)	175	OSC I&C Shop Supervisor
113	TSC SP Phonetalker (2)	176	Field Monitoring Team Driver (3)
114	TSC ERDADS Operator	177	OSC Information Services Rep
115	TSC Problem Solving Team Leader	180*	Security Shift Specialist
116	TSC ERDADS Tech	181*	Security Officer (4)
117	TSC I&C Rep - Problem Solving Tm	200	Recovery Manager
118	TSC SRO Rep - Problem Solving Tm	204	Risk Manager
119	TSC Security Supervisor	205	Governmental Affairs Manager
120	TSC Coordinator with OSC	209	EOF RM Ops Advisor/Logkeeper (2)
121	TSC Administrative Staff (2)	213	EOF ERDADS Operator
122	TSC EP Coordinator	216	EOF Status Board Keeper
124	TSC EC Assistant/Logkeeper	230	EOF Emergency Technical Manager
151	OSC HP Tech (ALL)	231	EOF Project Engineer
152	OSC Electrical Reentry Supervisor	232	EOF Mechanical Engineer (2)
153	OSC I&C Reentry Supervisor	233	EOF Nuclear Engineer
154	OSC Mechanical Reentry Supervisor	235	EOF Nuclear Fuels Engineer
155	OSC Chemistry Supervisor	236	EOF Civil Engineer
156	OSC Electrical Chief	237	EOF I&C Engineer
157	OSC Supervisor	238	EOF Electrical Engineer
158	OSC Coordinator with TSC	240	EOF Health Physics Manager
159	OSC HP Supervisor	245	EOF Dose Assessor/FMT Coord. (3)
160	OSC Chemist (3)	246	EOF HP Tech Support

* Not ERO positions, but are needed to ensure automated call-out logic will function properly.

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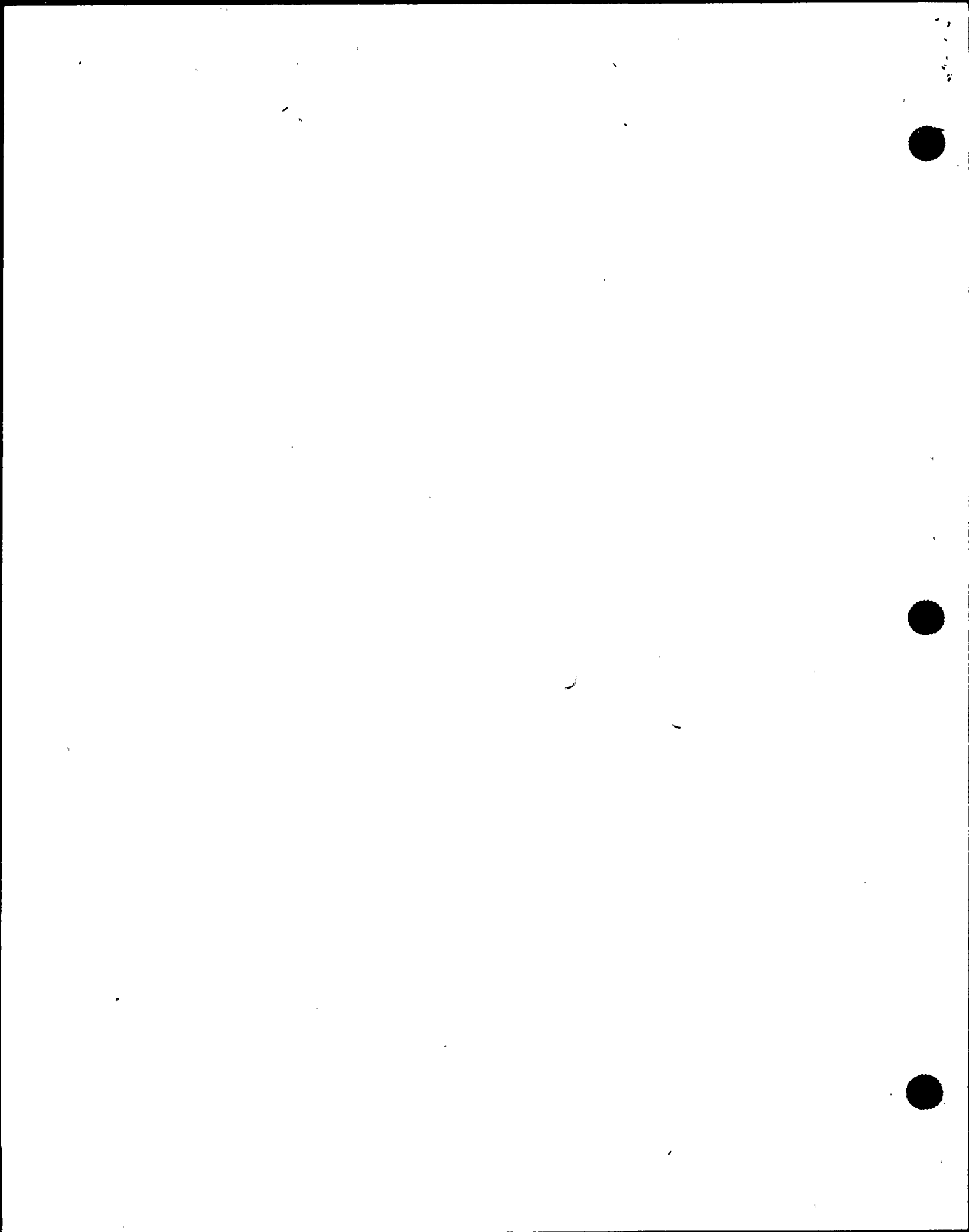
ST. LUCIE PLANT

**ATTACHMENT 1
EMERGENCY STAFFING CALL TREE
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Emergency Response Organization Positions List

Position	Title	Position	Title
247	EOF Rad Status Boards Keeper	279	Regulatory Affairs
250	EOF Nuclear Licensing Manager	280	EOF Administrative Supervisor
255	EOF Communicator (4)	281	EOF Administrative Staff (3)
260	EOF Emergency Security Manager	290	EP Manager
270	EOF Emergency Information Manager	291	Governor's Advisor
271	Nuclear Division Duty Officer	294	St. Lucie County Technical Advisor
273	EIM/ENC Technical Advisor (2)	295	Martin County Technical Advisor
275	Governmental Affairs Assistant	300	Emergency Control Officer
276	Gov Affairs Rep (Tallahassee)	301	President, Nuclear Division
278	Aviator		

END OF ATTACHMENT 1





**ST. LUCIE PLANT
EMERGENCY PLAN
IMPLEMENTING PROCEDURE**
SAFETY RELATED

Procedure No.
EPIP-12

Current Rev. No.
5

Effective Date:
12/08/99

Title:

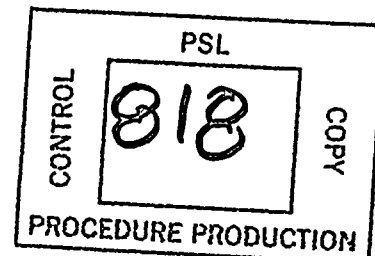
**MAINTAINING EMERGENCY
PREPAREDNESS - RADIOLOGICAL
EMERGENCY PLAN TRAINING**

Responsible Department: **EMERGENCY PLANNING**

Revision Summary

Revision 5 - Removed PAR training from the qualification requirements for the TSC Dose Assessor position. (J. R. Walker, 12/03/99)

Revision 4 - Changed title throughout (Protection Services Manager) and addressed changes prompted by use of PQD as official training database. (J. R. Walker, 07/08/99)



Revision	FRG Review Date	Approved By	Approval Date	S__OPS DATE _____ DOCT <u>PROCEDURE</u> DOCN <u>EPIP-12</u> SYS _____ COMP <u>COMPLETED</u> ITM <u>5</u>
<u>0</u>	<u>12/15/97</u>	<u>J. Scarola</u> Plant General Manager	<u>12/15/97</u>	
Revision	FRG Review Date	Approved By	Approval Date	
<u>5</u>	<u>12/03/99</u>	<u>R. G. West</u> Plant General Manager	<u>12/03/99</u>	
		<u>N/A</u> Designated Approver		

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1.0 PURPOSE

- 1.1 This procedure provides the Emergency Plan (E-Plan) training requirements for site personnel and personnel in the St. Lucie Plant Emergency Response Organization (ERO).
- 1.2 In order to maintain emergency preparedness, personnel should be familiar with certain pre-planned actions specified in the Emergency Plan Implementing Procedures (EPIPs). The primary objectives of this training are as follows:
 1. Familiarize appropriate individuals with the E-Plan and related EPIPs.
 2. Instruct individuals in their specific duties to ensure effective and expeditious action during an emergency.
 3. Periodically present significant changes in the scope or content of the E-Plan and the EPIPs.
 4. Provide annual retraining to ensure that personnel are familiar with their emergency duties and responsibilities.
 5. Provide the various emergency organization groups with the required training that will ensure an integrated and prompt response to an emergency situation.
- 1.3 The annual training cycle normally occurs in the first quarter of each year.
- 1.4 The E-Plan Training Review Committee provides for the review and evaluation of changes, the impact on training, and the determination if training is needed prior to the next cycle.

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2.0 REFERENCES/RECORDS REQUIRED/COMMITMENT DOCUMENTS

NOTE

One or more of the following symbols may be used in this procedure:

- § Indicates a Regulatory commitment made by Technical Specifications, Condition of License, Audit, LER, Bulletin, etc., and shall NOT be revised without Facility Review Group review and Plant General Manager approval.
- ¶ Indicates a management directive, vendor recommendation, plant practice or other non-regulatory commitment that should NOT be revised without consultation with the plant staff.

2.1 References

- §₁ 1. St. Lucie Plant Radiological Emergency Plan (E-Plan)
- ¶₁ 2. QI 1-PR/PSL-1, Site Organization.
- ¶₂ 3. QI-17-PSL-1, Quality Assurance Records.
- ¶₄ 4. AP 0005752, Plant Access Training Program.
- 5. AP 1800022, Fire Protection Plan.
- 6. ADM-11.11, Severe Accident Management Guidelines Program Administration
- 7. St. Lucie Plant Emergency Response Directory.

2.2 Records Required

- ¶₂ Records documenting the Emergency Plan Training received by individuals are Quality Assurance records and shall be maintained in the plant files in accordance with QI-17-PSL-1, Quality Assurance Records.

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2.0 REFERENCES/RECORDS REQUIRED/COMMITMENT DOCUMENTS
(continued)

2.3 Commitment Documents

- 1. St. Lucie Plant General Policy PSL-110, Emergency Response.
- 2. 10 CFR 50.47, Emergency Plans.
- 3. 10 CFR 50, Appendix E, Emergency Planning and Preparedness for Production and Utilization Facilities.
- 4. 10 CFR 26, Fitness for Duty.
- 5. NUREG 0737, 11.B.4, Training for Mitigating Core Damage
- 6. NOV Response L-97-20, Violation II.C, Part 4A.
- 7. NOV Response L-97-20, Violation II.C, Part 4B.
- 8. NRC Inspection Report 96-18 URI P5.2
- 9. QAS-EMP-96-01, Finding 2
- 10. PMAI PM99-05-183 (Use and Update of the Personnel Qualification Database (PWD))
- 11. PMAI PM99-09-077, CR 99-1353 (Training requirements for TSC Dose Assessor)

/R5

3.0 RESPONSIBILITIES

3.1 The Training Manager is responsible for:

- 1. Designing, establishing, implementing and maintaining training programs for the St. Lucie Plant.
- 2. Ensuring initial orientation training is provided to permanently assigned new employees.
- 3. Ensuring all Emergency Plan Training, both initial training and periodic retraining, is conducted and documented for the St. Lucie Plant ERO.

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3.0 RESPONSIBILITIES (continued)

3.2 Protection Services Manager is responsible for:

- ¶₁
1. Ensuring that a qualified Emergency Response Organization (ERO) is maintained in compliance with the St. Lucie Radiological Emergency Plan.
 2. Coordinating emergency planning at the plant.

3.3 Emergency Preparedness is responsible for:

- §₁
1. Establishing qualifications standards for ERO personnel.
 2. Reviewing and approving the Emergency Plan Training Program.
 3. Offering training to each contracted local hospital, at least once each year.
 - A. The content of that training should consist of radiological controls, medical consideration of contaminated injuries, and other topics as appropriate.
 - §₁ 4. Offering training to each State and local emergency response agency, at least once each calendar year.
 - A. The content of that training should consist of an overview of normal and emergency plant operations and concepts of radiation protection, including protective actions.
 - B. This training may be in the form of a presentation, text, or other acceptable means.
 5. Providing the table of Emergency Action Levels (EALs) to state and local officials for their review, on an annual basis.
 6. Revising the St. Lucie Plant Emergency Response Directory (ERD) and the FPL Emergency Recall System (autodialer) database when notified via a form similar to Attachment 1.

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3.0 RESPONSIBILITIES (continued)

3.3 Emergency Preparedness is responsible for: (continued)

7. Providing a list of personnel designated to fill emergency response positions and requiring training per this procedure, to the Training Department.
8. Removing individuals who fail to maintain training qualifications from the ERD and the FPL Emergency Recall System (autodialer) database when notified by the appropriate department head or the Training Department.
9. Providing guidelines to plant management to assist in identifying the appropriate number of ERO personnel for each ERO position.
10. Notifying the Training Manager if changes in the E-Plan and/or EIPs justify additional training for ERO personnel.
11. Chairing EP Training Review Committee Meetings.

1.3 **3.4 Each Manager and Department Head is responsible to ensure that each ERO member under his/her supervision attends training in accordance with Attachments 2 and 3, and remains fully qualified at all times to perform his/her assigned emergency response duties.**

1. Ensure personnel in his/her department who are assigned an on-site position in the ERO maintain unescorted access to the Protected Area and Radiation Controlled Area.
2. Ensure changes in his/her employees' status which would impair or limit the ability to perform emergency response duties be promptly reported to the Protection Services Manager (directly or through EP).

A. Provide alternate personnel to be trained to fill open positions.

3.5 The Protection Services Manager is responsible to ensure that Security personnel maintain EP training qualifications per this procedure.

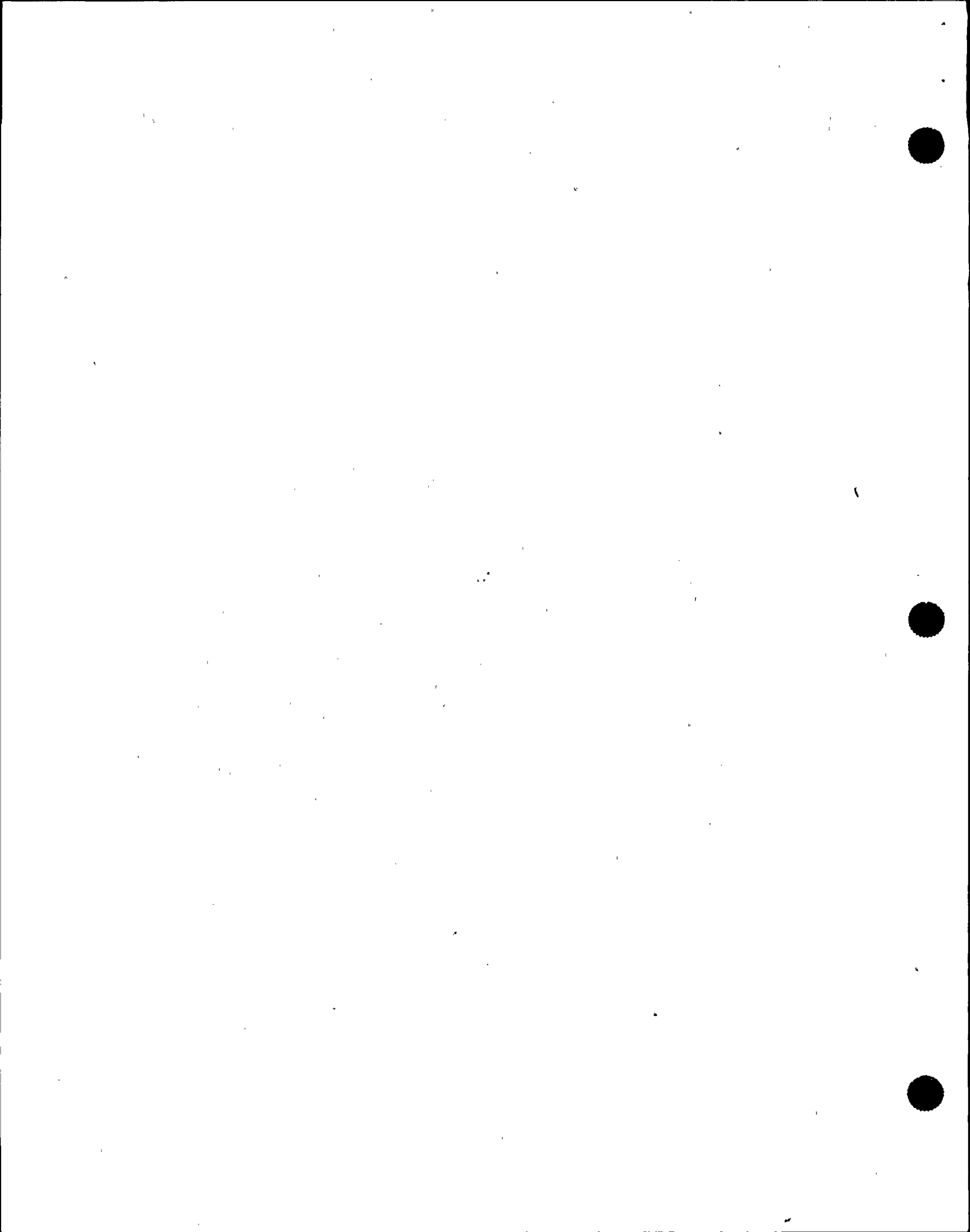
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3.0 RESPONSIBILITIES (continued)

- 3.6 ERO members, supervisors, training instructors, HP dosimetry personnel and medical facility staff are responsible for promptly reporting any failure in training, testing or other condition, which would disqualify an emergency responder, to the Protection Services Manager (directly or through EP).
- 3.7 Each ERO member is responsible for advising the Protection Services Manager (directly or through EP) when changes in status occur that could impact ERO participation.

4.0 DEFINITIONS

- 4.1 **Annual** - occurring once per calendar year (January 1 through December 31).
- 4.2 **Duty Call Supervisor (DCS)** - is a specifically designated and trained supervisor responsible for assisting the Emergency Coordinator in making notifications and calls to the Emergency Response Organization.
- 4.3 **Emergency Plan** - formally known as the St. Lucie Plant Radiological Emergency Plan, establishes the requirements for training the Emergency Response Organization; also referred to as the Plan or E-Plan.
- 4.4 **Emergency Planning (EP)** - activities undertaken to satisfy the commitments of the Emergency Plan, used interchangeably with Emergency Preparedness.
- 4.5 **Emergency Response Directory (ERD)** - formally known as the St. Lucie Plant Emergency Response Directory, provides a list of the current (revised on a quarterly basis) Emergency Response Organization personnel.
- 4.6 **Emergency Response Organization (ERO)** - personnel trained and qualified to provide specific emergency response functions as defined by their individual positions. Persons can become members of the Emergency Response Organization by following the instructions outlined in this procedure.



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4.0 DEFINITIONS (continued)

- 4.7 EP Training Review Committee (TRC)** - representatives from Emergency Preparedness, Training, and other departments who meet periodically to discuss training issues related to the Emergency Response Organization.
- 4.8 SAMG** - Severe Accident Management Guidelines.

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5.0 INSTRUCTIONS

NOTE

- In the event of an emergency, the Emergency Coordinator or Recovery Manager has the authority to assign personnel to positions for which they have not received the required Emergency Plan training, if that action is prudent in order to protect the health and safety of the public and plant personnel.
- The training requirements listed in this procedure are for the purpose of emergency preparedness and are in addition to other training required to hold a position, e.g., Nuclear Plant Supervisor (NPS), Shift Technical Advisor (STA).
- Personnel filling the position of Emergency Coordinator, TSC OPS Coordinator, or RM OPS Advisor should have SRO level knowledge (i.e., current or previous SRO license or SRO equivalent training such as Engineering Management Operations Training (EMOT)).

5.1 Initial Training

NOTE

- Initial Training is intended for personnel who are new to the ERO and is designed to orient the individual to his/her function and responsibilities within the ERO.
- Drill participation is not required prior to qualifying for an ERO position.
- It may be desirable to allow persons filling the following positions to participate in and/or observe their position in a drill prior to being assigned to the ERO:
 - Emergency Coordinator
 - Recovery Manager
 - TSC Supervisor
 - OSC Supervisor
 - TSC Coordinator with the OSC
 - OSC Coordinator with the TSC

§1

1. Initial Orientation Training (Plant Access Training - PAT) shall be provided to permanently assigned new employees.

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5.0 INSTRUCTIONS (continued)

5.1 Initial Training (continued)

1. (continued)

A. Training includes information describing:

1. Actions to be taken by an individual who discovers an emergency condition.
2. Location of assembly areas.
3. Identification of emergency alarms.
4. Action to be taken upon hearing alarms.

¶₄

B. PAT Training is conducted in accordance with AP 0005752, Plant Access Training Program.

§_{3,4}

2. Personnel shall complete the Initial Training requirements identified in Attachment 2, ERO Initial Training Matrix, prior to being assigned to the ERO.
3. To become a member of the ERO, an individual should fill out Attachment 1, Emergency Response Organization Change Request.
 - A. Complete the personal information (originator section).
 - B. Obtain Department Head approval.
 - C. Forward the Attachment to Emergency Preparedness Supervisor.
4. Emergency Preparedness (EP) should authorize the training of personnel designated to become new members of the ERO on Attachment 1.

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5.0 INSTRUCTIONS (continued)

5.1 Initial Training (continued) .

5. Training Department personnel should document completion of required training on Attachment 1 and forward to the Emergency Preparedness Supervisor when new members complete the training requirements as identified in Attachment 2, ERO Initial Training Matrix.
6. EP should make changes to the Emergency Recall System (ERS) and the Emergency Response Directory (ERD) upon receipt of Attachment 1 from Technical Training.

END OF SECTION 5.1

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5.0 INSTRUCTIONS (continued)

NOTE

Retraining is intended to ensure that ERO personnel maintain the level of skill and knowledge necessary to accomplish their emergency duties. Retraining may be accomplished through a combination of programmed instruction and/or participation in drills or exercises.

5.2 Annual Retraining

- §₁ 1. Annual retraining shall be provided at least once per calendar year.
2. The scope of annual retraining should be determined by the EP Training Review Committee and shall be approved by the Training Manager.
- §₄ A. Annual retraining shall include a review of any significant changes in the scope or content of the Emergency Plan or applicable Emergency Plan Implementing Procedures.
- §₄ B. Annual retraining shall include the training topics identified in Attachment 3, ERO Annual Requalification Matrix.
- §₄ C. Additional topics for annual retraining may include, but are not limited to, the following:
- a review of items listed in initial training
 - industry operating experience
 - a review of past drill/exercise performance problems

NOTE

Deviation from this schedule requires the approval of the President, Nuclear Division.

- §₂ 3. Emergency Response Facility (ERF) drills shall be conducted at least four times per calendar year and should be conducted approximately once each quarter.

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5.0 INSTRUCTIONS (continued)

5.2 Annual Retraining (continued)

3. (continued)

NOTE

It is the intent of the drill and exercise program that each ERO member have an opportunity to function in his/her position annually.

A. Participation in drills and exercises should be tracked by Emergency Preparedness Supervisor and forwarded to Technical Training.

1. Drill rosters should be reviewed and used to record participants in all Emergency Response Facilities (ERFs) including the Emergency News Center (ENC).
2. Drill critiques should list Players, Controllers, Evaluators, and Observers for each facility.
3. Drill participation should be recorded in the training database.

§4,5

B. Personnel should be rotated through drills and exercises with the goal of having as many as feasible participate in at least one drill or exercise per year. This applies to all ERO members, including those who are NOT in the Nuclear Division.

1. Participation in a drill or exercise shall be recognized if an ERO member functions as a Player.
2. Participation in a drill may be recognized if an ERO member functions as a Controller, Evaluator, or Observer for a position to which that member is normally assigned.
3. Failure to participate in an ERF drill annually may result in remedial training as determined by the Training Manager and Protection Services Manager. Remedial training may include table top sessions or repeat of initial training.

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5.0 INSTRUCTIONS (continued)

5.2 Annual Retraining (continued)

4. An individual may complete annual retraining by passing the examination for each topic without attending the class(es).
5. Personnel who teach a class should receive credit for completion of that class at the discretion of the Technical Training Supervisor.

END OF SECTION 5.2

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5.0 INSTRUCTIONS (continued)

§₄ 5.3 Loss of ERO Qualifications

1. If an individual fails an initial training topic, Then that individual shall not be assigned to the ERO until he/she has successfully met requirements.
2. If an individual fails Plant Access Training (PAT), Radiation Controlled Area Training (RCAT), or fails to maintain qualifications for use of respiratory protection (as specified in Attachment 3), Then he/she shall promptly be removed from the ERO.
3. If an individual fails an annual retraining evaluation, the Training Manager shall notify the Emergency Preparedness Supervisor or designee of the results.
 - A. The individual should then be removed from the ERS and ERD until appropriate remedial training, as recommended by the Training Manager and approved by the Emergency Preparedness Supervisor, has been completed.
4. The individual should complete remedial training at the earliest opportunity. As a minimum, remedial training shall consist of:
 - A. Trainee review of the training session material associated with identified knowledge deficiencies.
 - B. Trainee review of associated reference material identified by the instructor.
 - C. Administration of a second evaluation covering at least the identified deficiencies.
5. If an individual successfully completes a second examination, the individual should receive credit for completion of the required training.

END OF SECTION 5.3

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5.0 INSTRUCTIONS (continued)

5.4 Training for Security Personnel

1. Security personnel shall receive initial training and annual retraining for emergency response in accordance with this procedure.

END OF SECTION 5.4

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5.0 INSTRUCTIONS (continued)

5.5 Fire Brigade

1. Fire Brigade training is covered by the Fire Protection Plan, AP 1800022.

END OF SECTION 5.5

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5.0 INSTRUCTIONS (continued)

5.6 Training Exemptions and Substitutions

1. No specific Emergency Plan Training is required for ERO positions whose emergency job functions are similar to normal job functions. Examples of these positions include:
 - A. Emergency News Center / Corporate Communications Staff
 - B. Governmental Affairs Staff
 - C. Risk Manager
 - D. Regulatory Affairs

2. Personnel who participate in a drill or attend annual requalification training at PTN may receive credit/satisfy the requirements for drill participation and/or annual retraining as required by this procedure. ERO positions eligible to receive credit include (but are not limited to):
 - A. Emergency Information Manager (EIM)
 - B. Nuclear Division Duty Officer (NDDO)
 - C. Emergency Control Officer (ECO)

END OF SECTION 5.6

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**ATTACHMENT 1
EMERGENCY RESPONSE ORGANIZATION CHANGE REQUEST**

O R I G I N A T O R	NOTE Personnel will not be assigned to an emergency response organization position until required training for that position is completed.
	Originator: _____ Dept. _____ <input type="checkbox"/> Add <input type="checkbox"/> Remove <input type="checkbox"/> Change (Circle new info) * Name: _____ Soc. Sec. No.: _____ * Position number: _____ * Position: _____ Work Phone: _____ Home Phone: _____ Pager: _____ Other: _____
DEPT HEAD	Department Head/Supv. Signature: _____ Date: ___/___/___
E P	Authorization for ERO training EP Supervisor _____ Date: ___/___/___
T R A I N I N G	<input checked="" type="checkbox"/> The individual listed above meets the training/qualification requirements of EPIP-12 for the position(s) indicated per the Personnel Qualification Database (PQD). <input type="checkbox"/> The individual listed above requires training. Notify the Dept. Head, Dept. Training Coord. (if applicable) and the Technical Training Supervisor. Signature: _____ Date: ___/___/___
E P	<input type="checkbox"/> Emergency Recall System database updated: Date: ___/___/___ Init.: _____ <input type="checkbox"/> Emergency Response Directory (draft) updated: Date: ___/___/___ Init.: _____ <input type="checkbox"/> Notifications to ERO: Date: ___/___/___ Init.: _____ <input checked="" type="checkbox"/> Notification of Personnel Qualification Database (PQD) Administrator Date: ___/___/___ Init.: _____

* Only information required if removing from ERO (by EP)

END OF ATTACHMENT 1

ATTACHMENT 2
ERO INITIAL TRAINING MATRIX
(Page 1 of 9)

ERO #	POSITION	Emergency Plan Overview	EOF Responder	TSC Responder	OSC/Re-entry Team	RCA Access	SCBA	Emergency Classification	Emergency Notifications	ERO Activation	PARs	Accident Assess./Corrective Actions	Tech. Spec. Review	Core Melt Scenario	Core Damage Assessment	Emergency Rad. Monitoring	ERDADS Operations	FAPDT	Ventilation Systems	OSDC	PASS	Fire Brigade	Evacuation & Accountability	Recovery Mgr. Training	SAMG
	Licensed EC					G	G ²	X	X	X	X	X											X		
	STA	X				G			X			X	X	X											
	NLO	X			X	G	G ²										G ²					G ²			
100	DCS	X				G			X	X ¹															
101	Emergency Coordinator	X		X		G		X	X	X	X			X									X		X
102	TSC Supervisor	X		X		G			X																
103	TSC HP Supervisor	X		X		G					X											X			
104	TSC Chem. Supervisor	X		X		G				X	X						G	X	X		B				
105	TSC Reactor Engineer	X		X		G								X	X										X

- X = Required
 B = Accident Chemistry Considerations Module
 C = Respirator Only
¹ = Included in ERO Activation training for DCS only:
 • Autodialer JPM
 • Manual call-out exam
 • Simulator practice session with E-Plan events

- E = PSL or PTN Training may be acceptable
 G = Training/Requal Frequency IAW other Plant Procedures
 H = FFD Pool
 D = Included in Emerg. Rad. Monitoring

² = If qualified to hold shift position, Then position meets ERO qualification criteria

REVISION NO.: 5	PROCEDURE TITLE: MAINTAINING EMERGENCY PREPAREDNESS - RADIOLOGICAL EMERGENCY PLAN TRAINING ST. LUCIE PLANT	PAGE: 22 of 38
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**ATTACHMENT 2
ERO INITIAL TRAINING MATRIX
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ERO #	POSITION	Emergency Plan Overview	EOF Responder	TSC Responder	OSC/Re-entry Team	RCA Access	SCBA	Emergency Classification	Emergency Notifications	ERO Activation	PARs	Accident Assess./Corrective Actions	Tech. Spec. Review	Core Melt Scenario	Core Damage Assessment	Emergency Rad. Monitoring	ERDADS Operations	FAPDT	Ventilation Systems	OSDC	PASS	Fire Brigade	Evacuation & Accountability	Recovery Mgr. Training	SAMG
106	TSC Communicator	X		X		G			X																
107	TSC EM PST Rep.	X		X		G																			X
108	TSC MM PST Rep.	X		X		G																			X
109	HP Shift Supervisor					G				X															
110	TSC OPS Coordinator	X		X		G		X			X														X
¹ 111	TSC Dose Assessor	X		X		G													X	X					
112	TSC HP Communicator	X		X		G										X									
113	TSC SP Phonetalker	X		X		G			X																
114	TSC ERDADS Op.	X		X		G											X								

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REVISION NO.: 5	PROCEDURE TITLE: MAINTAINING EMERGENCY PREPAREDNESS - RADIOLOGICAL EMERGENCY PLAN TRAINING ST. LUCIE PLANT	PAGE: 23 of 38
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ERO INITIAL TRAINING MATRIX
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ERO #	POSITION	Emergency Plan Overview	EOF Responder	TSC Responder	OSC/Re-entry Team	RCA Access	SCBA	Emergency Classification	Emergency Notifications	ERO Activation	PARs	Accident Assess./Corrective Actions	Tech. Spec. Review	Core Melt Scenario	Core Damage Assessment	Emergency Rad. Monitoring	ERDADS Operations	FAPDT	Ventilation Systems	OSDC	PASS	Fire Brigade	Evacuation & Accountability	Recovery Mgr. Training	SAMG
115	TSC PST Leader	X		X		G																			X
116	TSC ERDADS Tech	X		X		G											X								
117	TSC I&C PST Rep.	X		X		G																			X
118	TSC SRO PST Rep.	X		X		G																			X
119	TSC Security Supv.	X		X		G																	X		
120	TSC Coord. with OSC	X		X		G																			
121	TSC Admin Staff	X		X		G																			
124	TSC EC Assist/Log.	X		X		G		X	X		X														
151	OSC HP Tech.	X			X	G	G			X						X									

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REVISION NO.: 5	PROCEDURE TITLE: MAINTAINING EMERGENCY PREPAREDNESS - RADIOLOGICAL EMERGENCY PLAN TRAINING ST. LUCIE PLANT	PAGE: 24 of 38
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ERO INITIAL TRAINING MATRIX**

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ERO #	POSITION	Emergency Plan Overview	EOF Responder	TSC Responder	OSC/Re-entry Team	RCA Access	SCBA	Emergency Classification	Emergency Notifications	ERO Activation	PARs	Accident Assess./Corrective Actions	Tech. Spec. Review	Core Melt Scenario	Core Damage Assessment	Emergency Rad. Monitoring	ERDADS Operations	FAPDT	Ventilation Systems	OSDC	PASS	Fire Brigade	Evacuation & Accountability	Recovery Mgr. Training	SAMG
152	OSC EM Re-Entry Supv.	X			X	G	G																		
153	OSC I&C Re-Entry Supv.	X			X	G	G																		
154	OSC MM Re-Entry Supv.	X			X	G	G																		
155	OSC Chem. Supv.	X			X	G	G			X								G			B				
156	OSC Electrical Chief	X			X	G	G																		
157	OSC Supervisor	X			X	G																			
158	OSC Coord. with TSC	X			X	G																			
159	OSC HP Supv.	X			X	G				X						X							X		
160	OSC Chemist	X			X	G	G											G			X				

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REVISION NO.: 5	PROCEDURE TITLE: MAINTAINING EMERGENCY PREPAREDNESS - RADIOLOGICAL EMERGENCY PLAN TRAINING ST. LUCIE PLANT	PAGE: 25 of 38
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**ATTACHMENT 2
ERO INITIAL TRAINING MATRIX
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ERO #	POSITION	Emergency Plan Overview	EOF Responder	TSC Responder	OSC/Re-entry Team	RCA Access	SCBA	Emergency Classification	Emergency Notifications	ERO Activation	PARs	Accident Assess./Corrective Actions	Tech. Spec. Review	Core Melt Scenario	Core Damage Assessment	Emergency Rad. Monitoring	ERDADS Operations	FAPDT	Ventilation Systems	OSDC	PASS	Fire Brigade	Evacuation & Accountability	Recovery Mgr. Training	SAMG
161	OSC Electrician	X			X	G	G																		
162	OSC Mechanic	X			X	G	G																		
163	OSC I&C Spec.	X			X	G	G																		
165	OSC On-Shift Security Spec.	X			X	G																	X		
166	OSC Dosl. Tech.	X			X	G																			
167	OSC Paramedic	X			X	G																			
168	OSC MM Foreman	X			X	G	G																		
169	OSC NMM Staff Rep.	X			X	G																			
170	OSC Safety Rep.	X			X	G	G																		

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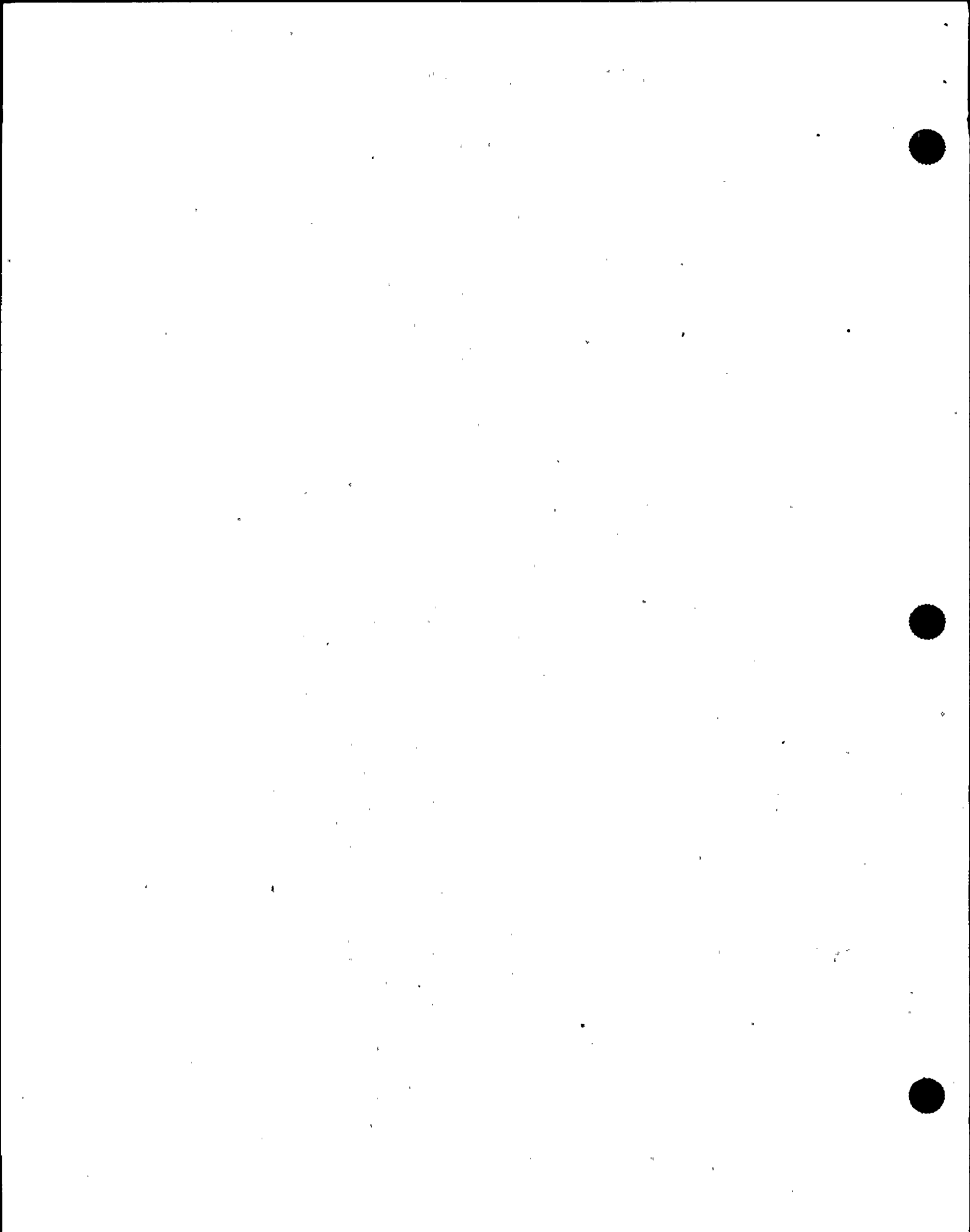
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ERO INITIAL TRAINING MATRIX
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ERO #	POSITION	Emergency Plan Overview	EOF Responder	TSC Responder	OSC/Re-entry Team	RCA Access	SCBA	Emergency Classification	Emergency Notifications	ERO Activation	PARs	Accident Assess./Corrective Actions	Tech. Spec. Review	Core Melt Scenario	Core Damage Assessment	Emergency Rad. Monitoring	ERDADS Operations	FAPDT	Ventilation Systems	OSDC	PASS	Fire Brigade	Evacuation & Accountability	Recovery Mgr. Training	SAMG
171	OSC Admin Tech/Log.	X			X	G																			
172	Assembly Area Supv.	X			X	G																	X		
173	OSC OPS Re-Entry Supv.	X			X	G	G																		
174	OSC Prot and Control Rep	X			X	G																			
175	OSC I&C Shop Supv.	X			X	G	G																		
176	Field Mon Team Driver	X			X	G	G/C																		
177	OSC Info Services Rep.	X			X	G																			
200	Recovery Manager	X	X			H			X		X													X	
205	Govt. Affairs Mgr.	X								X															

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ERO INITIAL TRAINING MATRIX
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ERO #	POSITION	Emergency Plan Overview	EOF Responder	TSC Responder	OSC/Re-entry Team	RCA Access	SCBA	Emergency Classification	Emergency Notifications	ERO Activation	PARs	Accident Assess./Corrective Actions	Tech. Spec. Review	Core Melt Scenario	Core Damage Assessment	Emergency Rad. Monitoring	ERDADS Operations	FAPDT	Ventilation Systems	OSDC	PASS	Fire Brigade	Evacuation & Accountability	Recovery Mgr. Training	SAMG
209	EOF RM OPS Adv/Log.	X	X			H			X		X													X	
213	EOF ERDADS Op.	X	X			H											X								
216	EOF Status Board Keeper	X	X			H																			
230	EOF Emerg Technical Mgr	X	X			H				X															
231	EOF Project Engineer	X	X			H				X															
232	EOF Mech. Engineer	X	X			H											X								
233	EOF Nuclear Engineer	X	X			H				X							X								
235	EOF Nuc Fuels Eng.	X	X			H								X	X		X								X
236	EOF Civil Engineer	X	X			H																			

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REVISION NO.: 5	PROCEDURE TITLE: MAINTAINING EMERGENCY PREPAREDNESS - RADIOLOGICAL EMERGENCY PLAN TRAINING ST. LUCIE PLANT	PAGE: 28 of 38
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**ATTACHMENT 2
ERO INITIAL TRAINING MATRIX
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ERO #	POSITION	Emergency Plan Overview	EOF Responder	TSC Responder	OSC/Re-entry Team	RCA Access	SCBA	Emergency Classification	Emergency Notifications	ERO Activation	PARs	Accident Assess./Corrective Actions	Tech. Spec. Review	Core Melt Scenario	Core Damage Assessment	Emergency Rad. Monitoring	ERDADS Operations	FAPDT	Ventilation Systems	OSDC	PASS	Fire Brigade	Evacuation & Accountability	Recovery Mgr. Training ¹	SAMG
237	EOF I&C Engineer	X	X			H											X								
238	EOF Electrical Engineer	X	X			H											X								
240	EOF HP Manager	X	X			H				X									X	X					
245	EOF Dos Assessor/FMT	X	X			H				X									X	X					
246	EOF HP Tech Support	X	X			H				X									X	X					
247	EOF Rad Stat Bds Keeper	X	X			H																			
250	EOF Nuc. Lic. Mgr.	X	X			H			X																
255	EOF Communicator	X	X			H			X																
260	Emerg. Security Mgr.	X	X			H																			

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REVISION NO.: 5	PROCEDURE TITLE: MAINTAINING EMERGENCY PREPAREDNESS - RADIOLOGICAL EMERGENCY PLAN TRAINING ST. LUCIE PLANT	PAGE: 29 of 38
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**ATTACHMENT 2
ERO INITIAL TRAINING MATRIX
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ERO #	POSITION	Emergency Plan Overview	EOF Responder	TSC Responder	OSC/Re-entry Team	RCA Access	SCBA	Emergency Classification	Emergency Notifications	ERO Activation	PAFs	Accident Assess./Corrective Actions	Tech. Spec. Review	Core Melt Scenario	Core Damage Assessment	Emergency Rad. Monitoring	ERDADS Operations	FAPDT	Ventilation Systems	OSDC	PASS	Fire Brigade	Evacuation & Accountability	Recovery Mgr. Training	SAMG
270	EOF Emerg Info Mgr.	E	E			H				X															
271	NDDO	E	E			H			X	X	X													X	
273	EIM/ENC Tech Advisor	X	X			H																			
280	EOF Admin Supervisor	X	X			H																			
281	EOF Admin Staff	X	X			H																			
291	Governor's Advisor																								
294	St. Lucie Co Tech Adv	X	X			H																			
295	Martin Co Tech Adv	X	X			H																			
300	Emer Control Officer	E	E			H			X	X	X													X	

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 - Manual call-out exam
 - Simulator practice session with E-Plan events
- ² = If qualified to hold shift position, Then position meets ERO qualification criteria

- E = PSL or PTN Training may be acceptable
- G = Training/Requal Frequency IAW other Plant Procedures
- H = FFD Pool
- D = Included in Emerg. Rad. Monitoring

REVISION NO.: 5	PROCEDURE TITLE: MAINTAINING EMERGENCY PREPAREDNESS - RADIOLOGICAL EMERGENCY PLAN TRAINING ST. LUCIE PLANT	PAGE: 30 of 38
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**ATTACHMENT 3
ERO ANNUAL REQUALIFICATION MATRIX
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ERO #	POSITION	TSC Annual Update	OSC Annual Update	EOF Annual Update	RCA Access	SCBA	Emergency Classification	Emergency Notifications	PARs	Accident Assess./Corrective Actions	Core Melt Scenario	Core Damage Assessment	Emergency Rad. Monitoring	ERDADS Operations	FAPDT	Ventilation Systems	OSDC	PASS	Fire Brigade	Recovery Mgr. Training	SAMG
	Licensed EC	X			G	G ²	X	X	X	X											
	STA	X			G			X		X	X										
	NLO	X			G	G ²									G ²					G ²	
101	Emergency Coordinator	X			G		X	X	X	X	X										F
102	TSC Supervisor	X			G			X													
103	TSC HP Supervisor	X			G				X												
104	TSC Chem. Supervisor	X			G				X						G	X	X	B/G			
105	TSC Reactor Engineering	X			G						X	X									F
106	TSC Communicator	X			G			X													

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² = If qualified to hold shift position, Then position meets ERO qualification criteria

F = SAMG Requal Frequency IAW ADM-11.11
G = Training/Requal Frequency IAW other Plant Procedures
H = FFD Pool

REVISION NO.: 5	PROCEDURE TITLE: MAINTAINING EMERGENCY PREPAREDNESS - RADIOLOGICAL EMERGENCY PLAN TRAINING ST. LUCIE PLANT	PAGE: 31 of 38
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**ATTACHMENT 3
ERO ANNUAL REQUALIFICATION MATRIX
(Page 2 of 9)**

ERO #	POSITION	TSC Annual Update	OSC Annual Update	EOF Annual Update	RCA Access	SCBA	Emergency Classification	Emergency Notifications	PARs	Accident Assess./Corrective Actions	Core Melt Scenario	Core Damage Assessment	Emergency Rad. Monitoring	ERDADS Operations	FAPDT	Ventilation Systems	OSDC	PASS	Fire Brigade	Recovery Mgr. Training	SAMG
107	TSC EM PST Rep.	X			G																F
108	TSC MM PST Rep.	X			G																F
110	TSC OPS Coordinator	X			G		X		X												F
111	TSC Dose Assessor	X			G											X	X				
112	TSC HP Communicator	X			G								X								
113	TSC SP Phonetalker	X			G			X													
114	TSC ERDADS Op.	X			G									X							
115	TSC PST Leader	X			G																F
116	TSC ERDADS Tech	X			G									X							

X = Required
B = Accident Chemistry Considerations Module
C = Respirator Only
² = If qualified to hold shift position, Then position meets ERO qualification criteria

F = SAMG Requal Frequency IAW ADM-11.11
G = Training/Requal Frequency IAW other Plant Procedures
H = FFD Pool

ATTACHMENT 3
ERO ANNUAL REQUALIFICATION MATRIX
(Page 3 of 9)

ERO #	POSITION	TSC Annual Update	OSC Annual Update	EOF Annual Update	RCA Access	SCBA	Emergency Classification	Emergency Notifications	PARs	Accident Assess./Corrective Actions	Core Melt Scenario	Core Damage Assessment	Emergency Rad. Monitoring	ERDADS Operations	FAPDT	Ventilation Systems	OSDC	PASS	Fire Brigade	Recovery Mgr. Training	SAMG
117	TSC I&C PST Rep.	X			G																F
118	TSC SRO PST Rep.	X			G																F
119	TSC Security Supv.	X			G																
120	TSC Coord. with OSC	X			G																
121	TSC Admin Staff	X			G																
124	TSC EC Assist/Log.	X			G		X	X	X												
151	OSC HP Tech.		X		G	G							X								
152	OSC EM Re-Entry Supv.		X		G	G															
153	OSC I&C Re-Entry Supv.		X		G	G															

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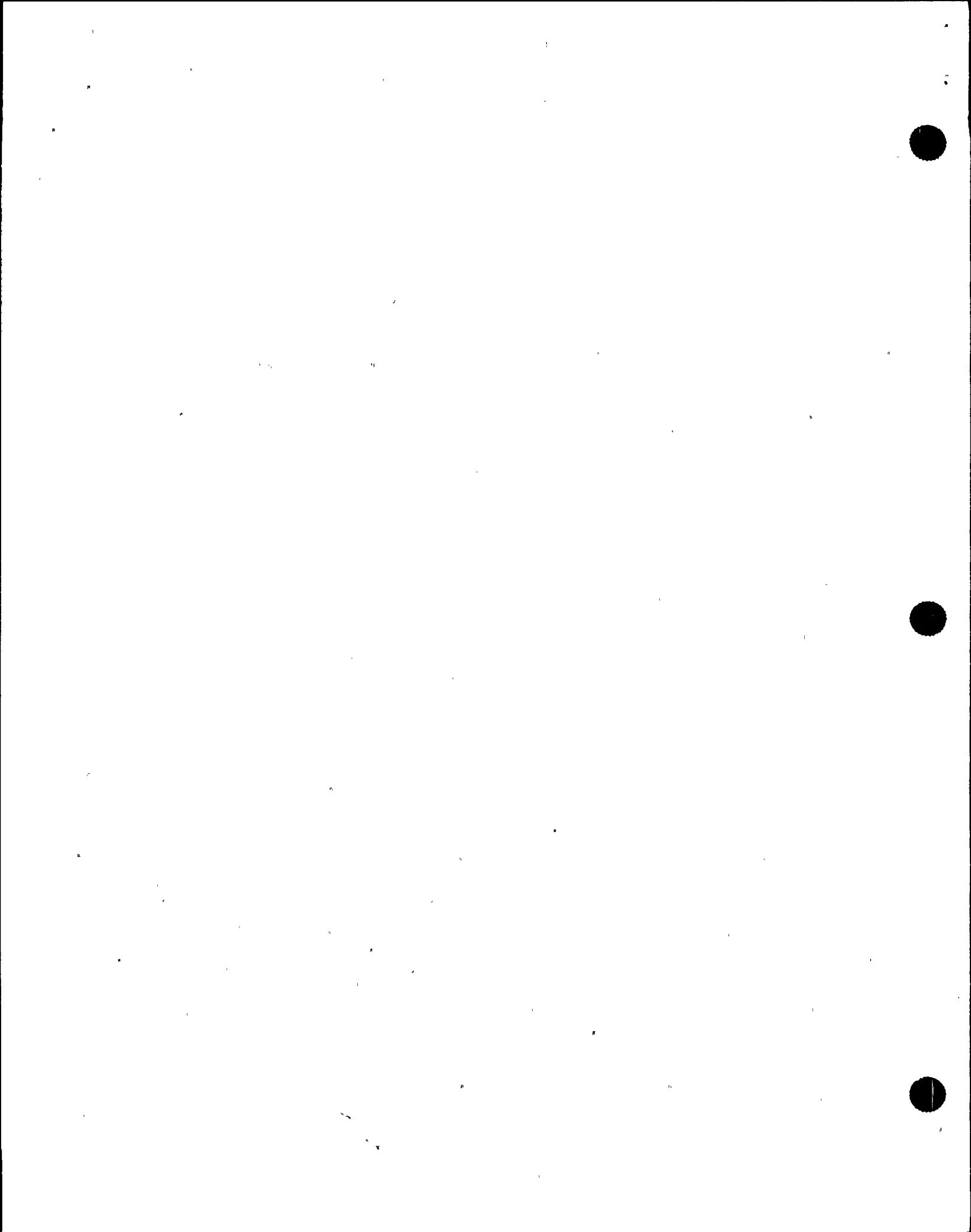
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ATTACHMENT 3
ERO ANNUAL REQUALIFICATION MATRIX
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ERO #	POSITION	TSC Annual Update	OSC Annual Update	EOF Annual Update	RCA Access	SCBA	Emergency Classification	Emergency Notifications	PARs	Accident Assess./Corrective Actions	Core Melt Scenario	Core Damage Assessment	Emergency Rad. Monitoring	ERDADS Operations	FAPDT	Ventilation Systems	OSDC	PASS	Fire Brigade	Recovery Mgr. Training	SAMG
154	OSC MM Re-Entry Supv.		X		G	G															
155	OSC Chem. Supv.		X		G	G									G			B/G			
156	OSC Electrical Chief		X		G	G															
157	OSC Supervisor		X		G																
158	OSC Coord. with TSC		X		G																
159	OSC HP Supv.		X		G								X								
160	OSC Chemist		X		G	G									G			G			
161	OSC Electrician		X		G	G															
162	OSC Mechanic		X		G	G															

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REVISION NO.: 5	PROCEDURE TITLE: MAINTAINING EMERGENCY PREPAREDNESS - RADIOLOGICAL EMERGENCY PLAN TRAINING ST. LUCIE PLANT	PAGE: 34 of 38
PROCEDURE NO.: EPIP-12		

**ATTACHMENT 3
ERO ANNUAL REQUALIFICATION MATRIX
(Page 5 of 9)**

ERO #	POSITION	TSC Annual Update	OSC Annual Update	EOF Annual Update	RCA Access	SCBA	Emergency Classification	Emergency Notifications	PARs	Accident Assess./Corrective Actions	Core Melt Scenario	Core Damage Assessment	Emergency Rad. Monitoring	ERDADS Operations	FAPDT	Ventilation Systems	OSDC	PASS	Fire Brigade	Recovery Mgr. Training	SAMG
163	OSC I&C Spec.		X		G	G															
165	OSC On-Shift Security (LTs)		X		G																
166	OSC Dosl. Tech.		X		G																
167	OSC Paramedic		X		G																
168	OSC MM Foreman		X		G	G															
169	OSC NMM Staff Rep.		X		G																
170	OSC Safety Rep.		X		G	G															
171	OSC Admin Tech/Log.		X		G																
172	Assembly Area Supv.		X		G																

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H = FFD Pool

REVISION NO.: 5	PROCEDURE TITLE: MAINTAINING EMERGENCY PREPAREDNESS - RADIOLOGICAL EMERGENCY PLAN TRAINING ST. LUCIE PLANT	PAGE: 35 of 38
PROCEDURE NO.: EPIP-12		

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ERO ANNUAL REQUALIFICATION MATRIX
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ERO #	POSITION	TSC Annual Update	OSC Annual Update	EOF Annual Update	RCA Access	SCBA	Emergency Classification	Emergency Notifications	PARS	Accident Assess./Corrective Actions	Core Melt Scenario	Core Damage Assessment	Emergency Rad. Monitoring	ERDADS Operations	FAPDT	Ventilation Systems	OSDC	PASS	Fire Brigade	Recovery Mgr. Training	SAMG
173	OSC OPS Re-Entry Supv.		X		G																
174	OSC Prot and Control Rep		X		G																
175	OSC I&C Shop Supv.		X		G	G															
176	Field Mon Team Driver		X		G	G/C															
178	OSC Info Services Rep.		X		G																
200	Recovery Manager			X	H			X	X											X	
205	Govt. Affairs Mgr.			X																	
209	EOF RM OPS Adv/Log.			X	H			X	X											X	
213	EOF ERDADS Op.			X	H									X							

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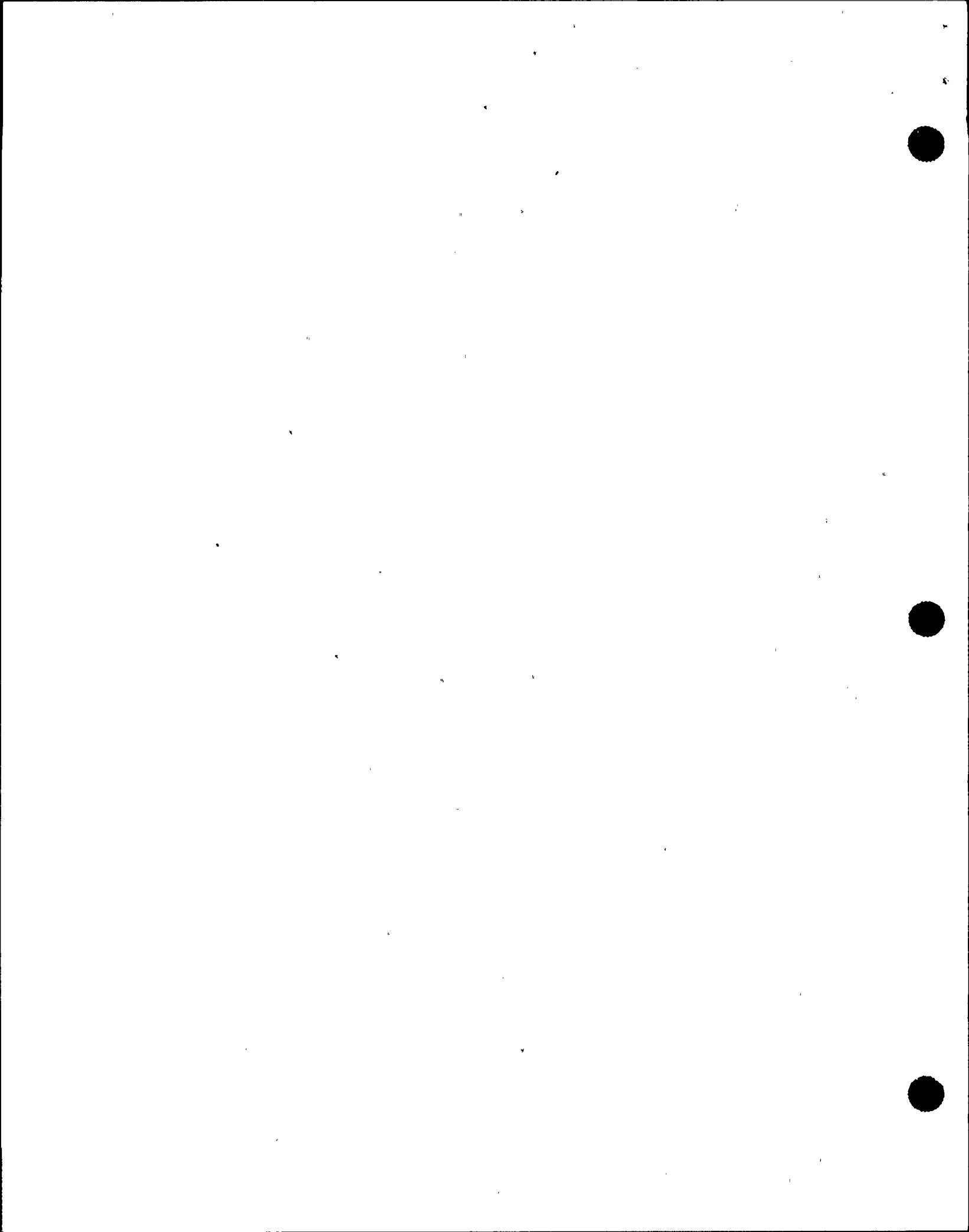
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ERO #	POSITION	TSC Annual Update	OSC Annual Update	EOF Annual Update	RCA Access	SCBA	Emergency Classification	Emergency Notifications	PARs	Accident Assess./Corrective Actions	Core Melt Scenario	Core Damage Assessment	Emergency Rad. Monitoring	ERDADS Operations	FAPDT	Ventilation Systems	OSDC	PASS	Fire Brigade	Recovery Mgr. Training	SAMG	
216	EOF Status Board Keeper			X	H																	
230	EOF Emerg Technical Mgr			X	H																	
231	EOF Project Engineer			X	H																	
232	EOF Mech. Engineer			X	H									X								
233	EOF Nuclear Engineer			X	H									X								
235	EOF Nuc Fuels Eng.			X	H						X	X		X								F
236	EOF Civil Engineer			X	H																	
237	EOF I&C Engineer			X	H																	
238	EOF Electrical Engineer			X	H																	

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REVISION NO.: 5	PROCEDURE TITLE: MAINTAINING EMERGENCY PREPAREDNESS - RADIOLOGICAL EMERGENCY PLAN TRAINING ST. LUCIE PLANT	PAGE: 37 of 38
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ERO #	POSITION	TSC Annual Update	OSC Annual Update	EOF Annual Update	RCA Access	SCBA	Emergency Classification	Emergency Notifications	PAFs	Accident Assess./Corrective Actions	Core Melt Scenario	Core Damage Assessment	Emergency Rad. Monitoring	ERDADS Operations	FAPDT	Ventilation Systems	OSDC	PASS	Fire Brigade	Recovery Mgr. Training	SAMG
240	EOF HP Manager			X	H				X							X	X				
245	EOF Dose Assessor/FMT			X	H				X							X	X				
246	EOF HP Tech Support			X	H				X							X	X				
247	EOF Rad Stat Bds Keeper			X	H																
250	EOF Nuc. Lic. Mgr.			X	H			X													
255	EOF Communicator			X	H			X													
260	Emerg. Security Mgr.			X	H																
270	EOF Emerg Info Mgr.			E	H																
271	NDDO			E	H			X	X											X	

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REVISION NO.: 5	PROCEDURE TITLE: MAINTAINING EMERGENCY PREPAREDNESS - RADIOLOGICAL EMERGENCY PLAN TRAINING ST. LUCIE PLANT	PAGE: 38 of 38
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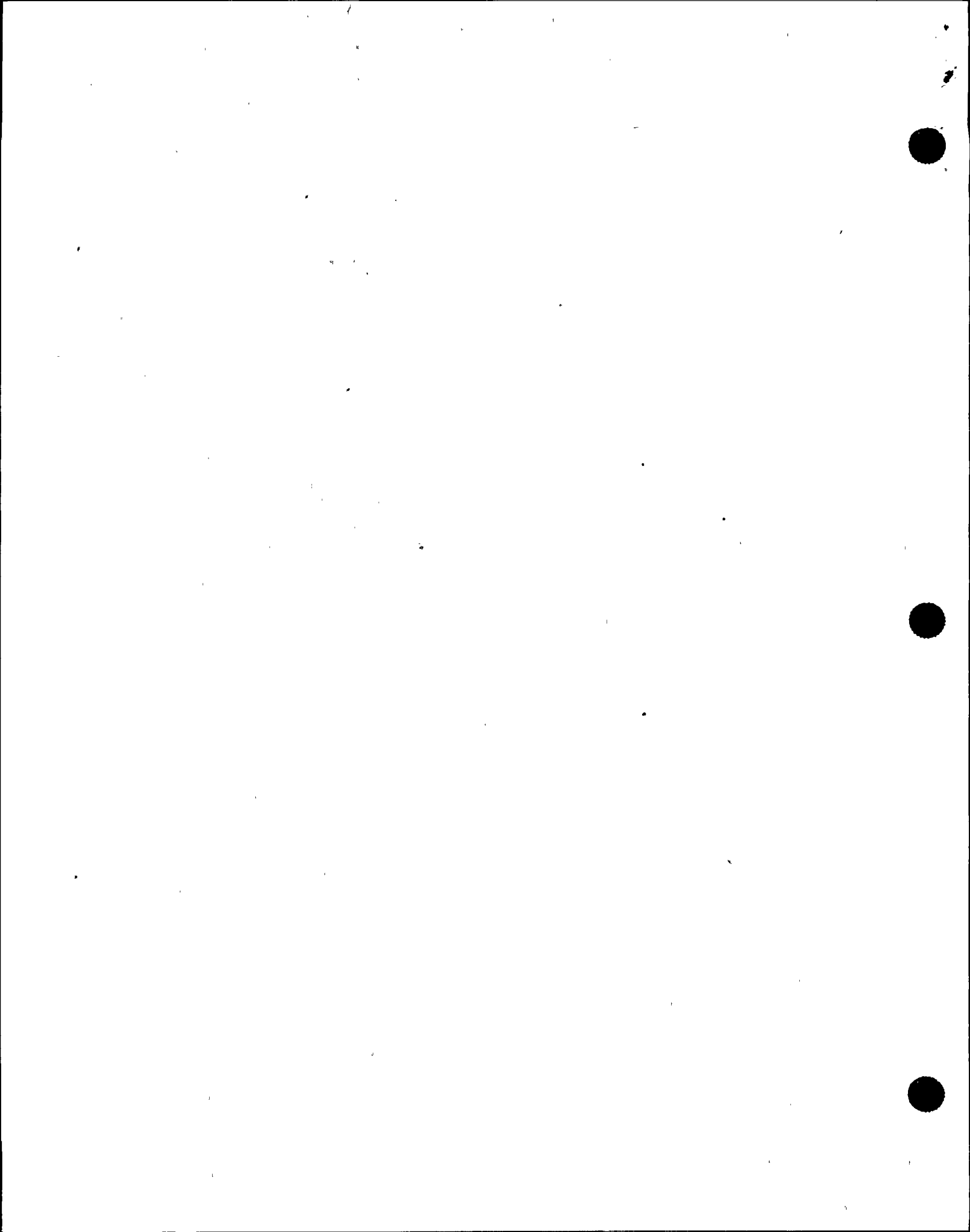
ATTACHMENT 3
ERO ANNUAL REQUALIFICATION MATRIX
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ERO #	POSITION	TSC Annual Update	OSC Annual Update	EOF Annual Update	RCA Access	SCBA	Emergency Classification	Emergency Notifications	PARS	Accident Assess./Corrective Actions	Core Melt Scenario	Core Damage Assessment	Emergency Rad. Monitoring	ERDADS Operations	FAPDT	Ventilation Systems	OSDC	PASS	Fire Brigade	Recovery Mgr. Training	SAMG	
273	EIM/ENC Tech Advisor			X	H																	
280	EOF Admin Supervisor			X	H																	
281	EOF Admin Staff			X	H																	
291	Governor's Advisor																					
294	St. Lucie Co Tech Advisor			X	H																	
295	Martin Co Tech Advisor			X	H																	
300	Emergency Control Officer			E	H			X	X											X		

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E = PSL or PTN Training May be Acceptable
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END OF ATTACHMENT 3





FPL

ST. LUCIE PLANT EMERGENCY PLAN IMPLEMENTING PROCEDURE

SAFETY RELATED

Procedure No.
EPIP-13

Current Rev. No.
3

Effective Date:
07/06/99

Title:

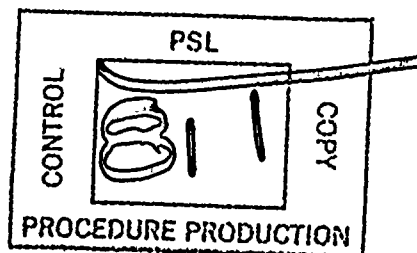
MAINTAINING EMERGENCY PREPAREDNESS - EMERGENCY EXERCISES, DRILLS, TESTS AND EVALUATIONS

Responsible Department: EMERGENCY PLANNING

Revision Summary

Revision 3 - Changed responsibility for EP from Training Manager to Protection Services Manager. Improved definition for drill per E-Plan. Corrected eval. exercise frequency from annual to biennial per E-Plan. Corrected recovery plan review frequency. Corrected review of annual training. Corrected procedure number and title of upgraded E-Plan chemistry procedures. Corrected ex critique review from Training Manager to FRG per E-Plan. Made editorial and administrative changes. (J. R. Walker, 06/17/99)

Revision 2 - Minor Corrections page 18, C-110 changed to COP-06.06 and C-111 changed to COP-06.11. (Russ Cox, 06/01/99)



Revision	FRG Review Date	Approved By	Approval Date	S__OPS
<u>0</u>	<u>12/15/97</u>	<u>J. Scarola</u> Plant General Manager	<u>12/15/97</u>	DATE _____ DOCT <u>PROCEDURE</u> DOCN <u>EPIP-13</u> SYS _____ COMP <u>COMPLETED</u> ITM <u>3</u>
<u>3</u>	<u>06/17/99</u>	<u>R. G. West</u> Plant General Manager	<u>06/17/99</u>	

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1.0 PURPOSE

This procedure provides instructions for:

- Periodic exercises and drills conducted in order to test the state of emergency preparedness by FPL personnel, support organizations and off-site governmental agencies. /R3
- Periodic tests and reviews of components of the Emergency Planning Program (e.g. facilities, equipment, Emergency Plan and Emergency Plan Implementing Procedures, etc.) conducted to ensure availability, operability and reliability.

2.0 REFERENCES/RECORDS REQUIRED/COMMITMENT DOCUMENTS

NOTE

One or more of the following symbols may be used in this procedure:

- § Indicates a Regulatory commitment made by Technical Specifications, Condition of License, Audit, LER, Bulletin, etc., and shall NOT be revised without Facility Review Group review and Plant General Manager approval.
- ¶ Indicates a management directive, vendor recommendation, plant practice or other non-regulatory commitment that should NOT be revised without consultation with the plant staff.

2.1 References

- §₁ 1. St. Lucie Plant Radiological Emergency Plan (E-Plan)
- ¶₁ 2. QI 1-PR/PSL-1, Site Organization
- ¶₂ 3. QI-1-PSL-15, Protection Services Organization /R3
- ¶₃ 4. QI-5-PSL-1, Preparation, Revision, Review/Approval of Procedures. /R3
- ¶₄ 5. QI-17-PSL-1, Quality Assurance Records /R3
- 6. NBS-NPS-EP-WP-001, Public Alert and Notification System Testing, Maintenance and Engineering

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2.0 REFERENCES/RECORDS REQUIRED/COMMITMENT DOCUMENTS
(continued)

2.2 Records Required

- ¶₄ 1. The following records are maintained in accordance with
QI-17-PSL-1 Quality Assurance Records: /R3
- 2. Data Sheet 1, EP Program Maintenance Checklist
- 3. Data Sheet 2, Emergency Plan 6 Year Element Demonstration /R3
- 4. Data Sheet 3, EPIP Biennial Review
- 5. Data Sheet 4, EP Annual Exercise Checklist
- 6. Attachment 1, EP Program Schedule

2.3 Commitment Documents

- §₂ 1. 10 CFR 50, Domestic Licensing of Production and Utilization
Facilities
- ¶₅ 2. PMAI #96-02-237, Evaluation of Continuous Emergency Response
- §₃ 3. NOV Response L-97-20, Violation II. A, Part 4.D.
- ¶₆ 4. St. Lucie Plant General Policy PSL-110, Emergency Response

3.0 RESPONSIBILITIES

- §₁ 3.1 The Protection Services Manager is responsible for: /R3
 - 1. Planning, scheduling, and coordinating emergency exercises
involving off-site agencies. /R3
 - 2. Reviewing Attachment 1, EP Program Schedule, upon completion.
 - 3. Reviewing results of exercises and major drills.

REVISION NO.: 3	PROCEDURE TITLE: MAINTAINING EMERGENCY PREPAREDNESS - EMERGENCY EXERCISES, DRILLS, TESTS AND EVALUATIONS ST. LUCIE PLANT	PAGE: 5 of 31
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3.0 RESPONSIBILITIES (continued)

- §₁ **3.2** The Protection Services Manager, in conjunction with plant management, is responsible for ensuring that adequate resources are made available to support and conduct emergency preparedness activities including: /R3
1. Exercise and drill scenario development and control /R3
 - ¶₆ 2. Exercise and drill participation /R3
 3. Support for maintenance of emergency facilities and equipment
- §₁ **3.3** The Facility Review Group (FRG) is responsible to review the following:
1. Revisions to the St. Lucie Plant Radiological Emergency Plan and Emergency Plan Implementing Procedures (EPIPs)
 2. Biennial Exercise Critique Report. /R3
- 3.4** The Emergency Preparedness (EP) Supervisor is responsible for:
1. Maintaining awareness of EP activities.
 2. Ensuring coordination of EP drills and exercises in accordance with this procedure.
 3. Ensuring documentation of EP program maintenance in Attachment 1, EP Program Schedule.
 4. Ensuring documentation of major element demonstration as indicated on Data Sheet 2, Emergency Plan 6 Year Element Demonstration.
 5. Ensuring critiques of exercises, drills, and actual events are conducted, documented, and that deficiencies are addressed in accordance with plant corrective action practices. /R3

REVISION NO.: 3	PROCEDURE TITLE: MAINTAINING EMERGENCY PREPAREDNESS - EMERGENCY EXERCISES, DRILLS, TESTS AND EVALUATIONS ST. LUCIE PLANT	PAGE: 6 of 31
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3.0 RESPONSIBILITIES (continued)

3.4 The Emergency Preparedness (EP) Supervisor is responsible for:
(continued)

6. Ensuring that EPIPs are reviewed through feedback from the following sources:

A. Daily use

B. Drills and exercises

C. Actual events

D. Training

E. Biennial EPIP review as indicated on Data Sheet 3, EPIP Biennial Review

7. Ensuring biennial review of the Recovery Plan.

4.0 DEFINITIONS

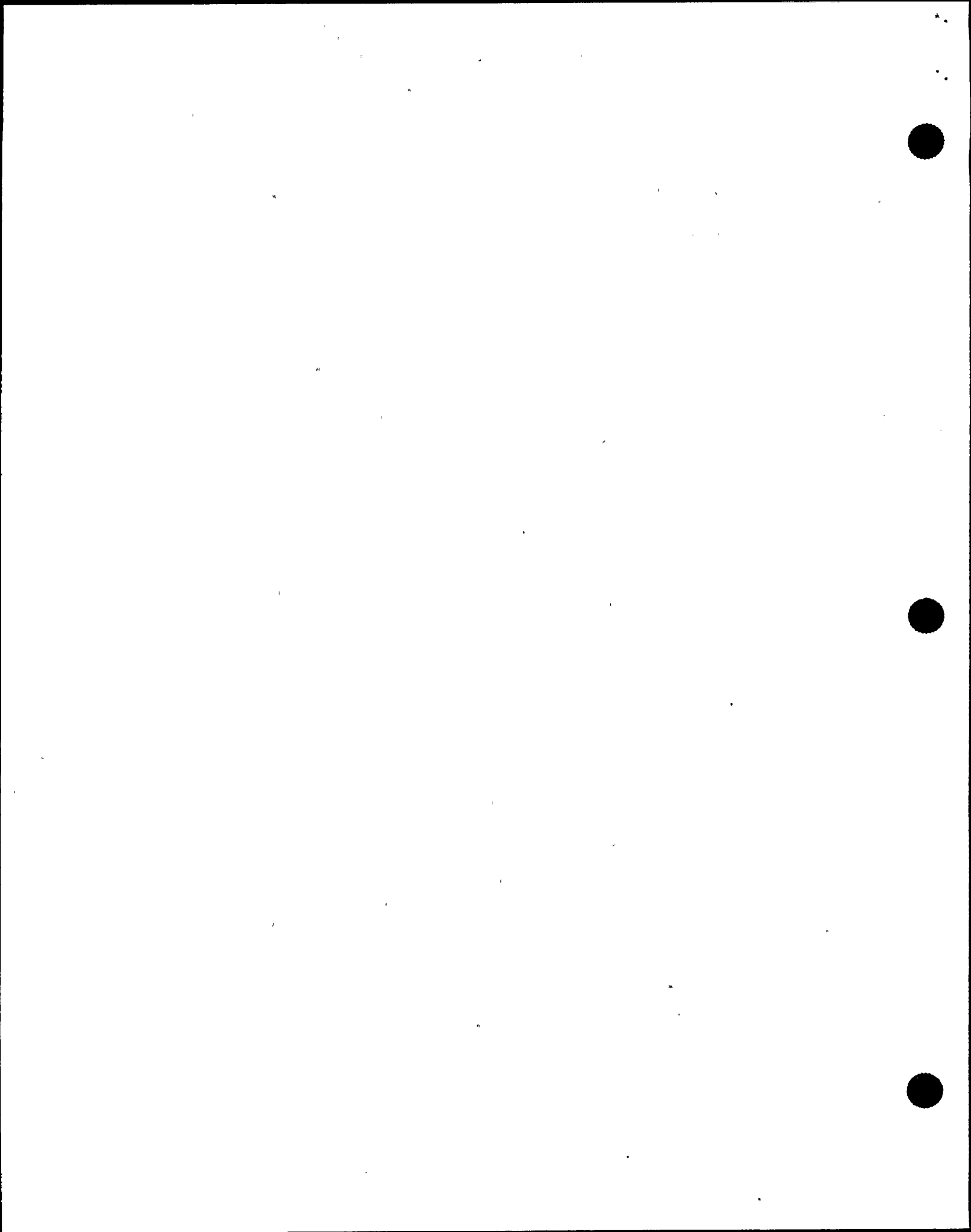
4.1 **Annual** - Annual is defined as once per calendar year (January 1 through December 31).

4.2 **Biennial** - Biennial is defined as once per two calendar years.

4.3 Drill

1. **Communications Tests and Drills** - Communications tests involve the use of emergency communications equipment to verify operability. Communications drills involve use of emergency communications equipment to notify and transfer simulated emergency information to off-site governmental agencies.

2. **Health Physics Drills** - Health Physics drills test various tasks employed by that department during an emergency condition. Health Physics drills are conducted semi-annually and one of the semi-annual drills may be incorporated into the radiological monitoring drill.



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4.0 DEFINITIONS (continued)

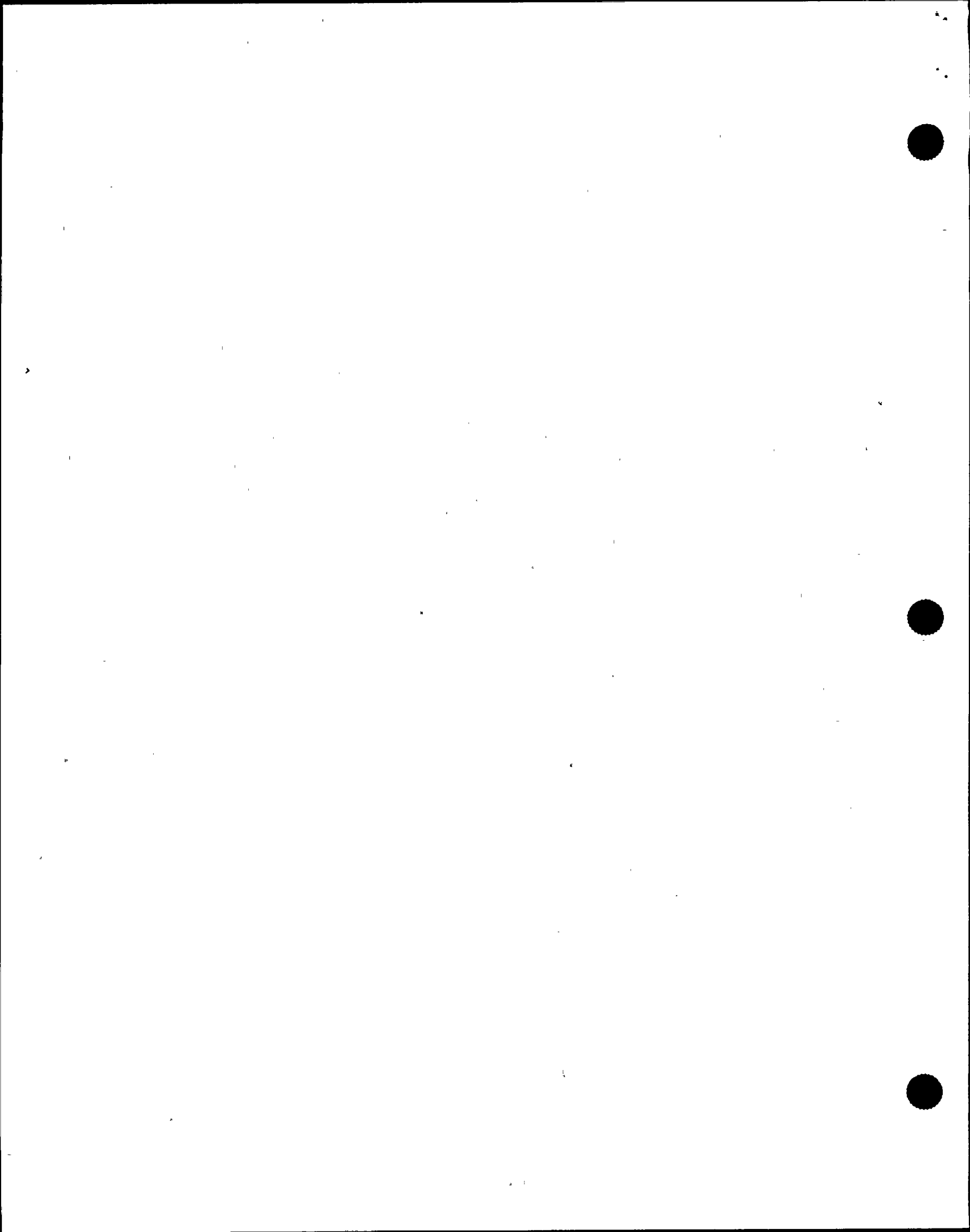
4.3 Drill (continued)

3. **Medical Emergency Drill** - A medical emergency drill involves a simulated contaminated individual, with provisions for activation of the plant First Aid/Personnel Decontamination Team. Participation by local support services (i.e., ambulance and off-site medical treatment facility) is tested separately once per year or as part of the annual medical drill. Medical Emergency Drills are conducted at least once every calendar year.
4. **Radiological Monitoring Drill** - Radiological monitoring drills include collection and analysis of air samples, testing of communications, and understanding of messages between Health Physics supervision and the off-site monitoring teams. A radiological monitoring drill will be conducted at least once every calendar year.
5. **Emergency Response Facility (ERF) Drill** - An ERF Drill demonstrates various emergency response capabilities including management and coordination of emergency response, accident assessment, protective action decision-making, and plant system repair and corrective action involving all or certain Emergency Response Facilities [Control Room, Technical Support Center (TSC), Operational Support Center (OSC), Emergency Operations Facility (EOF), and/or Emergency News Center (ENC)]. These drills are conducted at least four (4) times per calendar year and should be conducted approximately once each calendar quarter. One of these drills is designed to satisfy the requirements of an exercise as defined below.

/R3

Non-exercise drills provide an opportunity to consider accident management strategies. Supervised instruction can be permitted for these drills, with operating staff having the opportunity to resolve problems (success paths) rather than have controllers intervene. Additionally, non-exercise drills may focus on on-site training objectives.

/R3



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4.0 DEFINITIONS (continued)

4.4 Exercise - An exercise is an event that tests the integrated capability of a major portion of the basic elements existing within the St. Lucie Plant Radiological Emergency Plan. An exercise is required biennially per 10 CFR 50. Off-site agency participation is required biennially. Exercises are developed, scheduled, and conducted in a manner consistent with the regulations and guidance of 10 CFR 50 Appendix E, NUREG 0654, and other appropriate regulatory documents. Biennial exercises involving off-site agencies shall be conducted as a Site Area Emergency and should escalate to General Emergency. The exercise scenarios are varied such that all major elements of the Plan are tested at least every six (6) years.

/R3

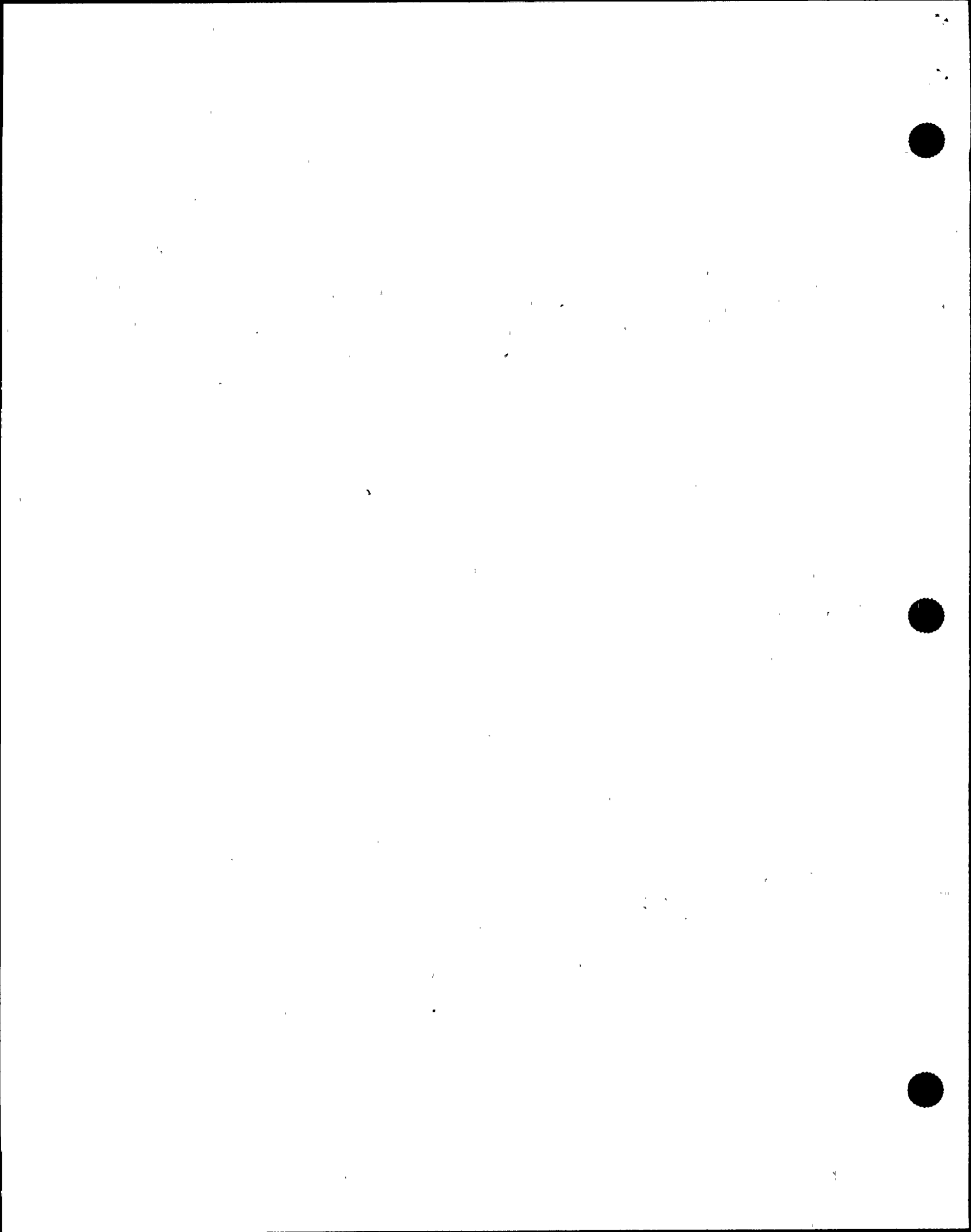
4.5 Letter of Agreement (LOA) - Support or assistance from outside agencies is established and maintained through Letters of Agreement or, in some instances, purchase orders/contracts.

Letters of Agreement are confirmed annually through correspondence, direct contact, or by telephone. Each agreement is renewed at least every three (3) years. Purchase orders/contracts are renewed as required.

4.6 Monthly - Monthly is defined as at least once each calendar month, being the first day of each month until the last unless otherwise specified.

4.7 Quarterly - Quarterly is defined as once per calendar quarter, with the quarters being January through March, April through June, July through September and October through December.

4.8 Semi-annual - Semi-annual is defined as twice per calendar year, with one time from January 1 to June 30 and one from July 1 to December 31.



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5.0 INSTRUCTIONS

5.1 Protection Services Manager Instructions

/R3

1. Review completed documentation of Attachment 1, EP Program Schedule, on an annual basis.
2. Ensure that State and County Emergency Management officials are made aware of non-emergency events that have a potential for media interest.
 - A. Inform Emergency Planning (EP) of event
 - B. Verify that EP has informed appropriate Emergency Management officials.
- §₁ 3. Ensure that State and County Emergency Management officials are made aware of the following on an annual basis:
 - A. Significant changes to the Emergency Plan/EIPs.
 - B. Emergency Action Levels (EALs)
4. Maintain awareness of the status of the Alert and Notification System (ANS) operability.
 - A. Ensure that EP updates this information on the Plant Daily Status Report.
 - B. Ensure that degradations of the ANS are promptly addressed.
 - The Manager, Plant Services is responsible to maintain operability of the ANS per NBS-NPS-EP-WP-001, Alert and Notification System Testing, Maintenance and Engineering.

REVISION NO.: 3	PROCEDURE TITLE: MAINTAINING EMERGENCY PREPAREDNESS - EMERGENCY EXERCISES, DRILLS, TESTS AND EVALUATIONS ST. LUCIE PLANT	PAGE: 10 of 31
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5.0 INSTRUCTIONS (continued)

5.1 Protection Services Manager Instructions (continued)

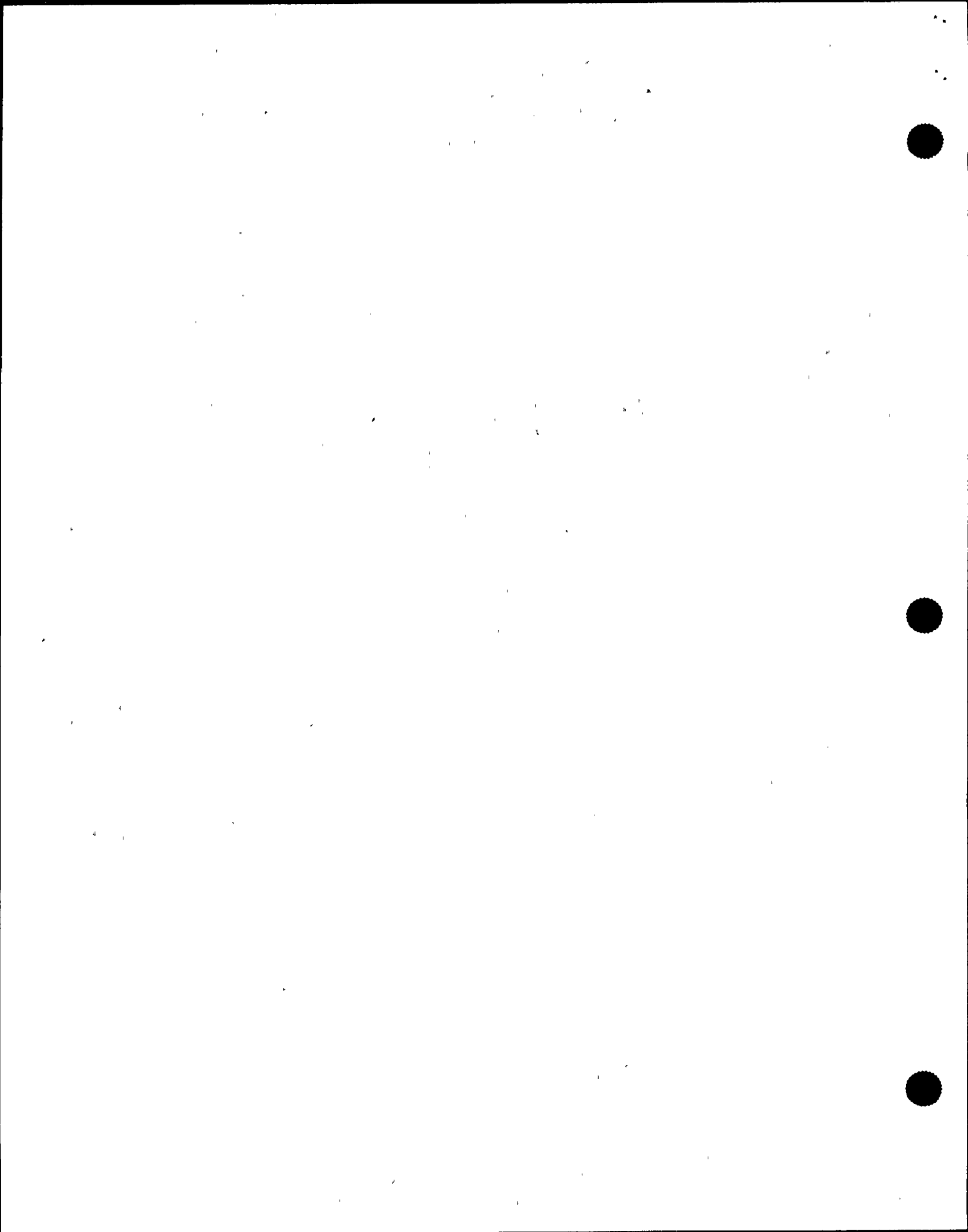
/R3

§,

5. Ensure the following is performed in support of exercises:

- A. Schedule a date for the exercise in coordination with the primary State and County emergency response agencies.
- B. Provide the opportunity for State and County response agencies to participate in an exercise.
- C. Coordinate FPL efforts with other participating personnel, organizations, and agencies.
 - If the Federal Emergency Management Agency (FEMA) is evaluating State and County emergency response, Then ensure that the exercise scenario is developed within the timeframes specified by the regulations, as defined in Data Sheet 4, EP Annual Exercise Checklist.
- D. Discuss and evaluate annual exercise performance with plant management, FPL controller/evaluators and principal participants.

END OF SECTION 5.1



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5.0 INSTRUCTIONS (continued)

5.2 Emergency Preparedness Supervisor

1. At the beginning of each calendar year:
 - A. Schedule the items on Data Sheet 1, EP Program Maintenance Checklist.
 - B. Record on Data Sheet 2, Emergency Plan 6 Year Element Demonstration, the data of the most recent performance.
 1. Ensure the year last performed date is less than 6 years from the current year.
 - C. Schedule additional elements to be performed this year as necessary on Attachment 1, EP Program Schedule (Item 7).
 - D. Schedule procedure reviews from Data Sheet 3, EPIP Biennial Review on Attachment 1, EP Program Schedule.
2. Maintain awareness of status of completion of Attachment 1, EP Program Schedule.
 - A. Response actions performed as part of actual plant emergencies may be credited towards the following drills or tests:
 - integrated facility activation drill
 - call out phone test/drill
 - HP drill
 - off-site agency communications drill
 - medical drill
 - B. Evolutions incorporated within a multiple scope drill/exercise may count as drill or test completion, as example:
 - HP drill, medical drill, or off-site communications drill as part of quarterly integrated facility activated drill or annual exercise.

/R3



REVISION NO.: 3	PROCEDURE TITLE: MAINTAINING EMERGENCY PREPAREDNESS - EMERGENCY EXERCISES, DRILLS, TESTS AND EVALUATIONS ST. LUCIE PLANT	PAGE: 12 of 31
PROCEDURE NO.: EPIP-13		

5.0 INSTRUCTIONS (continued)

5.2 Emergency Preparedness Supervisor (continued)

3. Ensure the completion of the items on Data Sheet 2, Emergency Plan 6 Year Element Demonstration.
4. Ensure the completion of the items on Data Sheet 3, EPIP Biennial Review.
5. Ensure the completion of the items on Data Sheet 4, EP Annual Exercise Checklist.

/R3

END OF SECTION 5.2

REVISION NO.: 3	PROCEDURE TITLE: MAINTAINING EMERGENCY PREPAREDNESS - EMERGENCY EXERCISES, DRILLS, TESTS AND EVALUATIONS ST. LUCIE PLANT	PAGE: 13 of 31
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DATA SHEET 1
EP PROGRAM MAINTENANCE CHECKLIST
(Page 1 of 3)

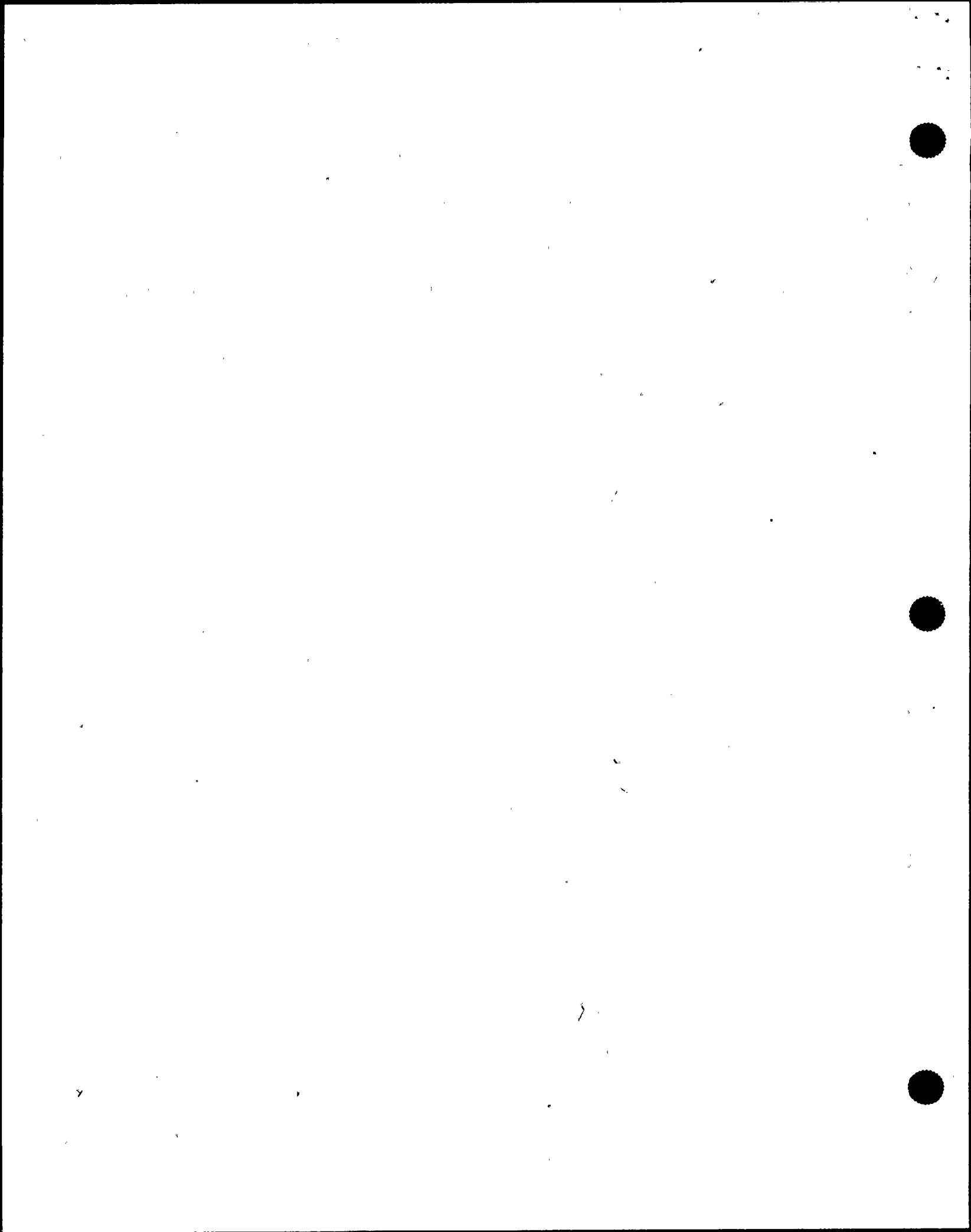
(YEAR) _____

Semi-Annual/Annual/Biennial EP Maintenance Items:

INITIAL / DATE

- | | | | |
|------------------|--|--|-------------|
| § ₁ | 1. HP Drill (Semi-Annual) | | |
| | A. (Jan-Jun) Date _____/_____/_____ | | _____/_____ |
| | B. (Jul-Dec) Date _____/_____/_____ | | _____/_____ |
| § ₁ | 2. Radiological Monitoring Drill (Annual) | | |
| | A. Date _____/_____/_____ | | _____/_____ |
| § _{1,2} | 3. Biennial Exercise (Include Data Sheet 4, EP Exercise Checklist) | | /R3 |
| | A. Date _____/_____/_____ | | _____/_____ |
| | B. FEMA Evaluated (Even Years Only) <u>Yes / No</u> | | _____/_____ |
| § ₁ | 4. Annual Offsite Agencies Communications Drill | | /R3 |
| | A. Date _____/_____/_____ | | _____/_____ |
| § ₁ | 5. Annual Unannounced Communications Drill | | /R3 |
| | A. Date _____/_____/_____ | | _____/_____ |
| § ₁ | 6. Annual Medical Drill | | /R3 |
| | A. Date _____/_____/_____ | | _____/_____ |

S__OPS	
DATE	_____
DOCT	<u>CHECKLIST</u>
DOCN	<u>EPIP-13</u>
SYS	_____
COMP	<u>COMPLETED</u>
ITM	<u>REV</u>



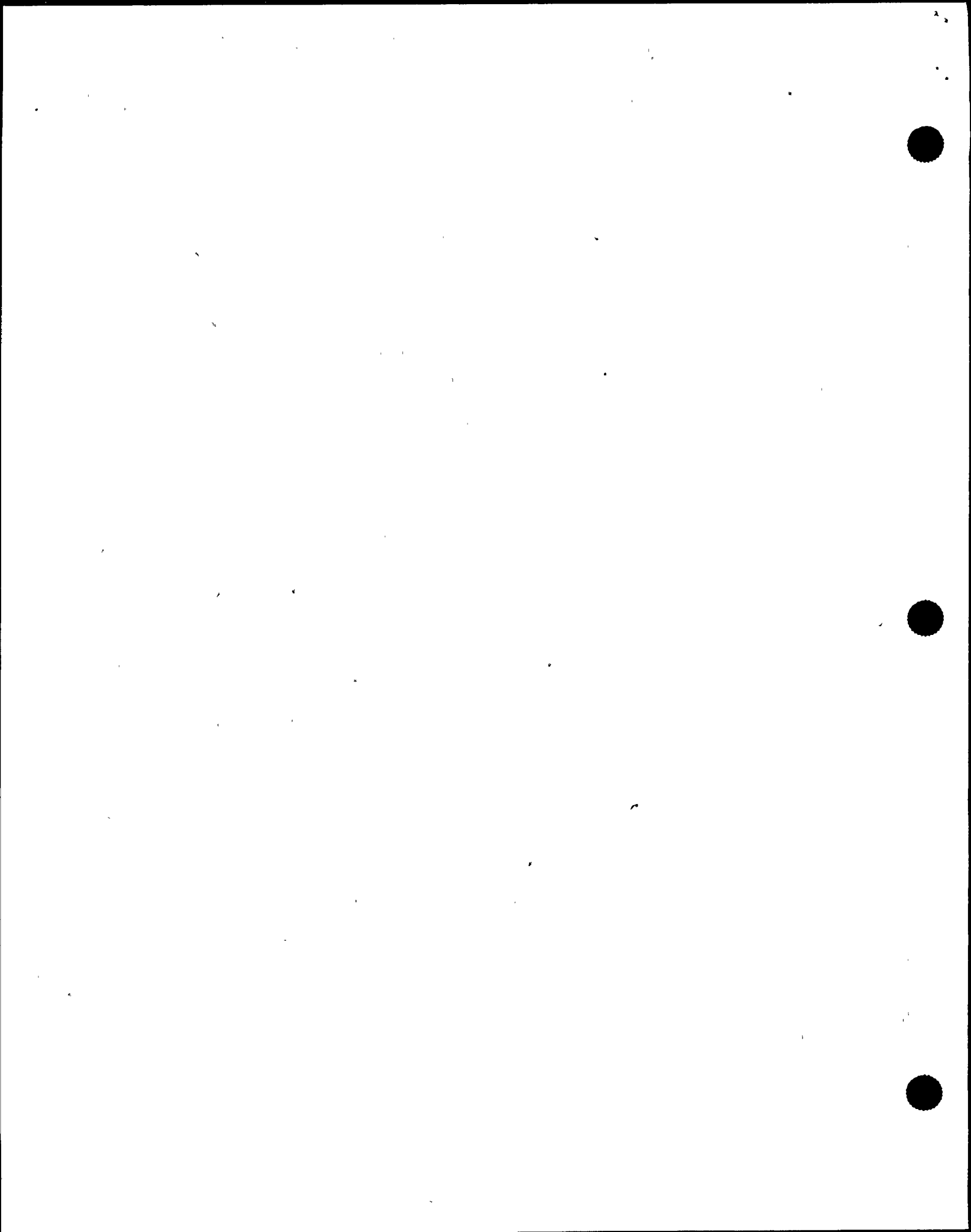
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DATA SHEET 1
EP PROGRAM MAINTENANCE CHECKLIST
(Page 2 of 3)

(YEAR) _____

Two-Year/Annual/Semi-Annual EP Maintenance Items (continued): INITIAL / DATE

- | | | |
|----------------|---|---------------|
| § ₁ | 7. Emergency Plan Review: | ____/____ |
| | A. Emergency Plan Review (Annual) | ____/____ |
| | B. Letters of Agreement Certification (Annual Confirmation/Triennial Renewal) | ____/____ |
| | C. EPIP Review (Even years only)
(Include Data Sheet 3, EPIP Biennial Review) | ____/____ |
| § ₁ | 8. Media Day (Annual) | ____/____ |
| § ₁ | 9. Public Information Brochure (Annual) | ____/____ |
| § ₁ | 10. Review and update Six Year Plan (Annual)
(Include Data Sheet 2, Emergency Plan 6 Year Element Demonstration) | ____/____ |
| § ₁ | 11. Significant Emergency Plan/EPIP Changes, Emergency Action Levels (EALs) Meeting with State/County Emergency Management (Annual) | ____/____ |
| § ₁ | 12. Hospital Training (Annual) | ____/____ |
| § ₁ | 13. Off-site Training (Annual) | ____/____ |
| | 14. Recovery Plan Review (Biennial) | ____/____ /R3 |



REVISION NO.: 3	PROCEDURE TITLE: MAINTAINING EMERGENCY PREPAREDNESS - EMERGENCY EXERCISES, DRILLS, TESTS AND EVALUATIONS ST. LUCIE PLANT	PAGE: 15 of 31
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DATA SHEET 1
EP PROGRAM MAINTENANCE CHECKLIST
(Page 3 of 3)

(YEAR) _____

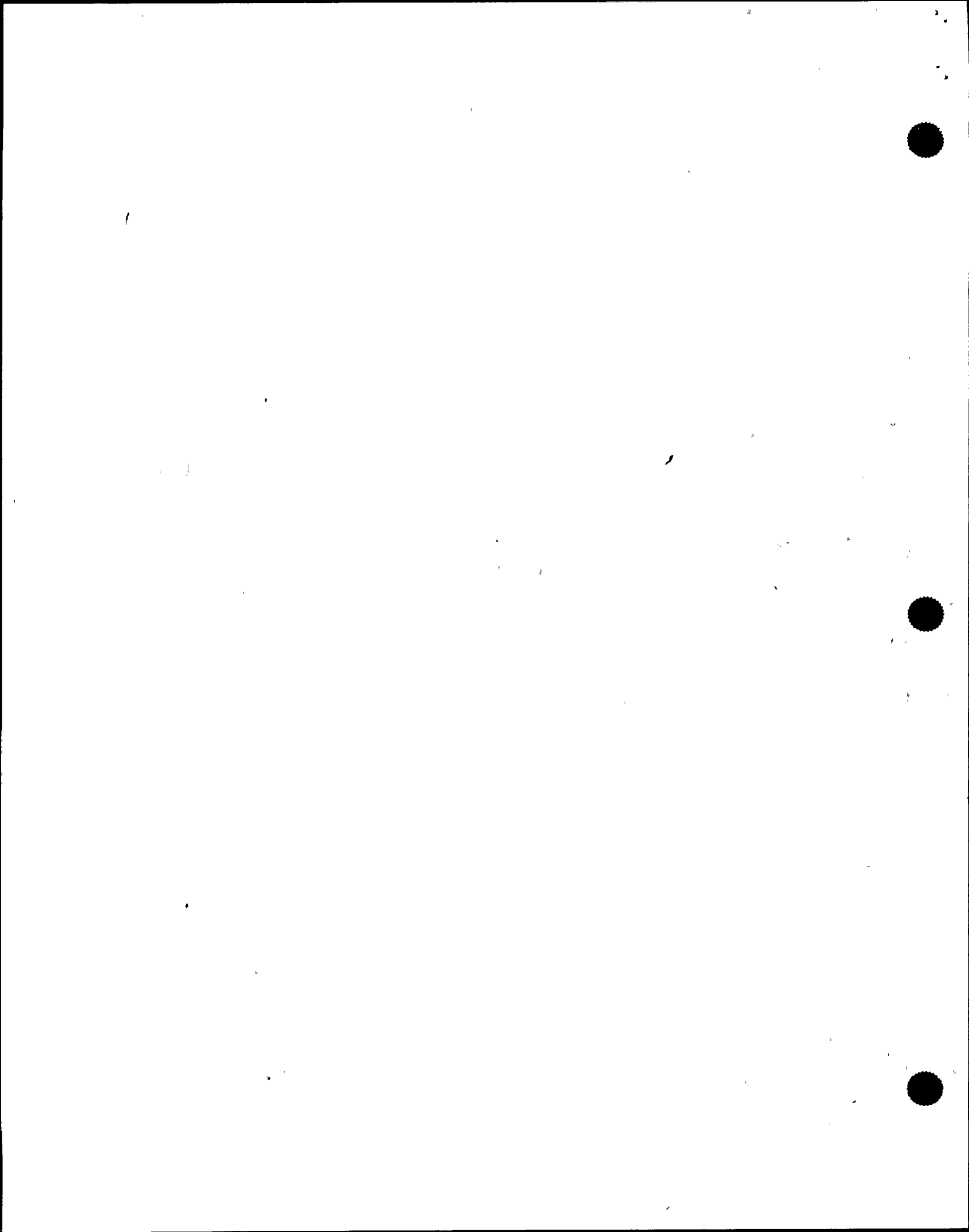
Two-Year/Annual/Semi-Annual EP Maintenance Items (continued): INITIAL / DATE

- 15. Annual training review of ERO
 - A. Solicit verification of annual ERO training completion from the Training Department. _____/_____
 - B. Review training completion feedback and remove any ERO members not qualified. _____/_____
- 16. EP Program Monthly Schedule (Attachment 1, EP Program Schedule) _____/_____

Completed by _____
Emergency Preparedness Supervisor

Reviewed by _____
Protection Services Manager

/R3



REVISION NO.: 3	PROCEDURE TITLE: MAINTAINING EMERGENCY PREPAREDNESS - EMERGENCY EXERCISES, DRILLS, TESTS AND EVALUATIONS ST. LUCIE PLANT	PAGE: 16 of 31
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DATA SHEET 2
EMERGENCY PLAN 6 YEAR ELEMENT DEMONSTRATION

YEAR _____

Element	Year Last Performed	Year Next Scheduled	Date Completed/ Initial
Off hours staffing (6 P.M. - 4 A.M.)			
Activation of Emergency News Center			
Use of fire control teams			
Use of medical support personnel			
Use of Security personnel for prompt access to emergency equipment or support			
Use of one or more portions of backup communications for notification			
Field monitoring			
Capability for determining the magnitude and impact of the particular components of a release			
Capability for post-accident coolant sampling and analysis			
Assembly and accountability			
Initial recovery planning activities			

END OF DATA SHEET 2



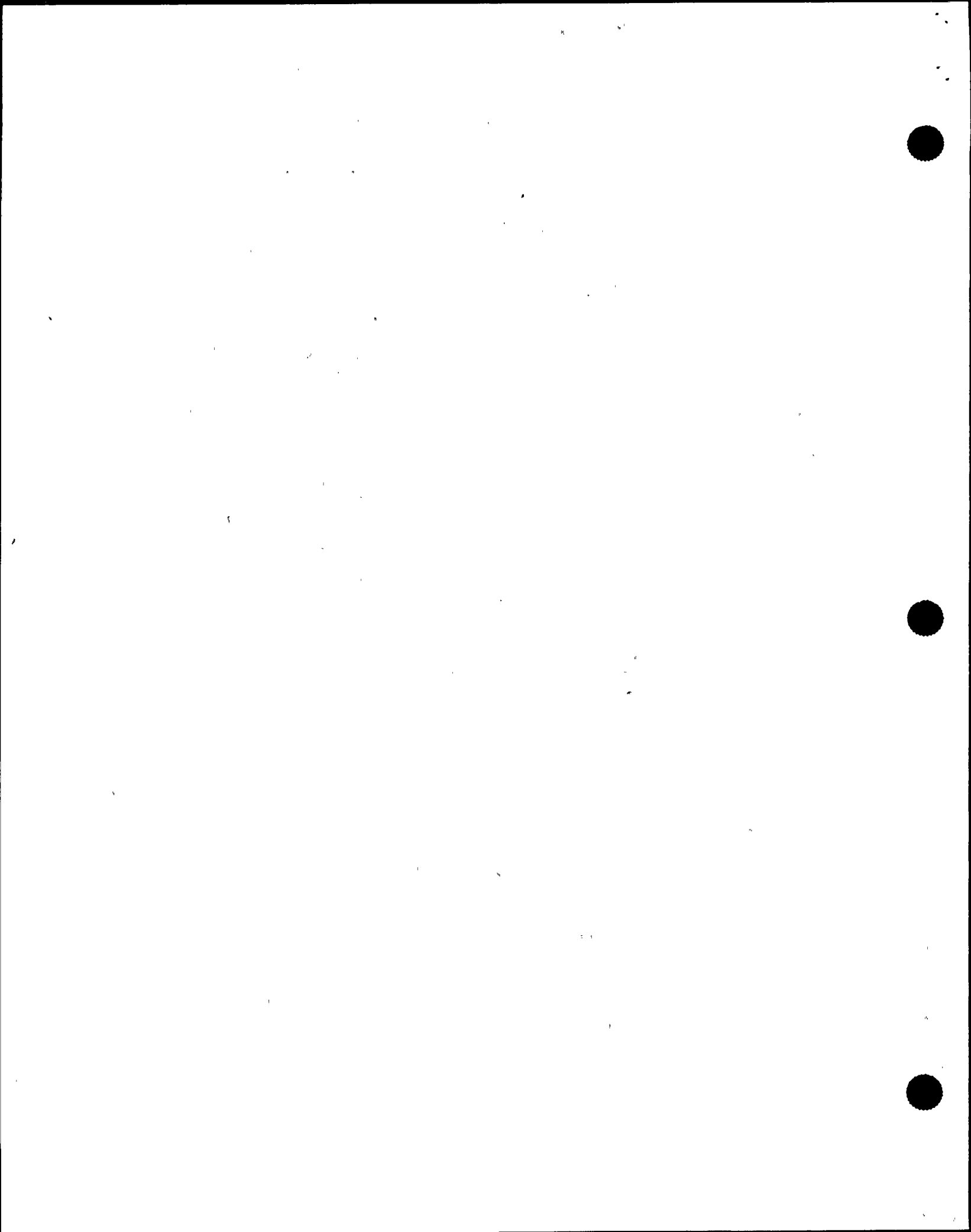
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DATA SHEET 3
EPIP BIENNIAL REVIEW
(Page 1 of 2)

(YEAR) _____

I. Emergency Plan Implementing Procedures (Biennial)

		Revision No.	Date Reviewed	PCR Y / N
EPIP-00	Discovery and 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-09	Offsite 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			
HP-90	Emergency Equipment			
HP-200	HP Emergency Organization			
HP-201	Emergency Personnel Exposure Control			



REVISION NO.: 3	PROCEDURE TITLE: MAINTAINING EMERGENCY PREPAREDNESS - EMERGENCY EXERCISES, DRILLS, TESTS AND EVALUATIONS ST. LUCIE PLANT	PAGE: 18 of 31
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DATA SHEET 3
EPIP BIENNIAL REVIEW
(Page 2 of 2)

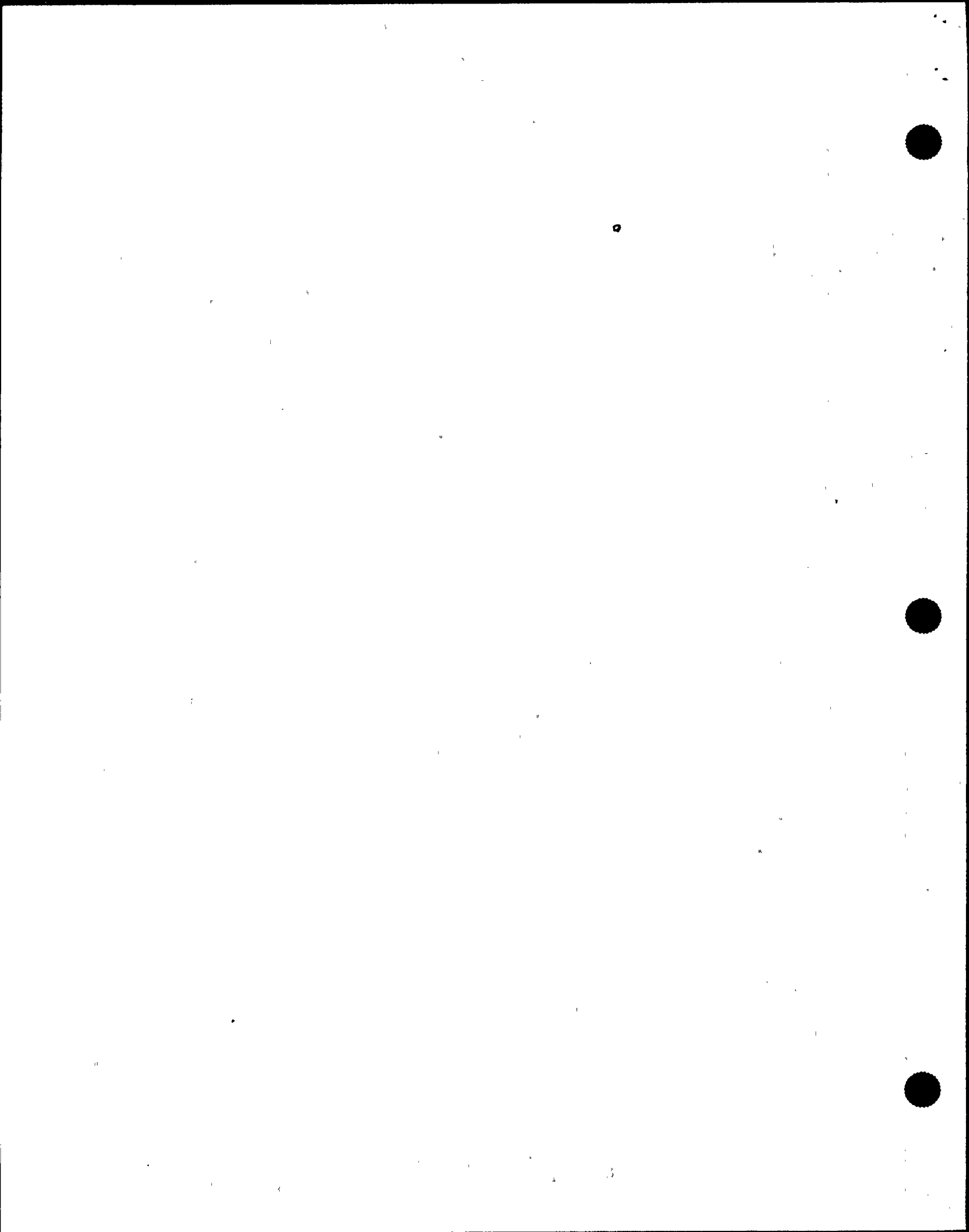
(YEAR) _____

I. Emergency Plan Implementing Procedures (Biennial) (continued)

		Revision No.	Date Reviewed	PCR Y/N
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 Inplant Air Sampling			
HP-206	Analysis of Emergency Inplant Air Samples			
HP-207	Monitoring Evacuated Personnel During Emergencies			
HP-208	Personnel Decontamination During Emergencies			
COP-06.06	Guidelines for Collecting Post Accident Samples			
COP-06.11	Establishing Remote Laboratory for Analysis of Accident Samples			

/R3

END OF DATA SHEET 3



REVISION NO.: 3	PROCEDURE TITLE: MAINTAINING EMERGENCY PREPAREDNESS - EMERGENCY EXERCISES, DRILLS, TESTS AND EVALUATIONS ST. LUCIE PLANT	PAGE: 19 of 31
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DATA SHEET 4
EP EXERCISE CHECKLIST

/R3

(YEAR) _____

Exercise Items:

INITIAL / DATE

- | | | | |
|-------|--|-----------|-----|
| 1. | Exercise Date Selection: | | |
| | A. Evaluated Date ____/____/____ | ____/____ | |
| 2. | ERO Participant Notification | ____/____ | |
| 3. | Scenario Development Personnel Assigned | ____/____ | |
| 4. | Controllers/Evaluators Assigned | ____/____ | |
| 5. | Exercise Objectives | | |
| | A. Protection Services Manager Approval | ____/____ | /R3 |
| | B. Submitted to Licensing
(75 Day NRC Submittal, Even years only) | ____/____ | |
| 6. | Exercise Scenario | | |
| | A. Provided to Florida DEM
(60 Day FEMA Submittal, Even years only) | ____/____ | |
| | B. Submitted to Licensing
(45 Day NRC Submittal, Even years only) | ____/____ | |
| 7. | Post Exercise Critique Date: ____/____/____ | ____/____ | |
| §1 8. | Facility Review Group (FRG) Critique Report Review | ____/____ | /R3 |

END OF DATA SHEET 4



REVISION NO.: 3	PROCEDURE TITLE: MAINTAINING EMERGENCY PREPAREDNESS - EMERGENCY EXERCISES, DRILLS, TESTS AND EVALUATIONS ST. LUCIE PLANT	PAGE: 20 of 31
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ATTACHMENT 1
EP PROGRAM SCHEDULE
(Page 1 of 12)

JANUARY

(YEAR) _____

INITIAL / DATE

1. Emergency Response Facility Surveillance:

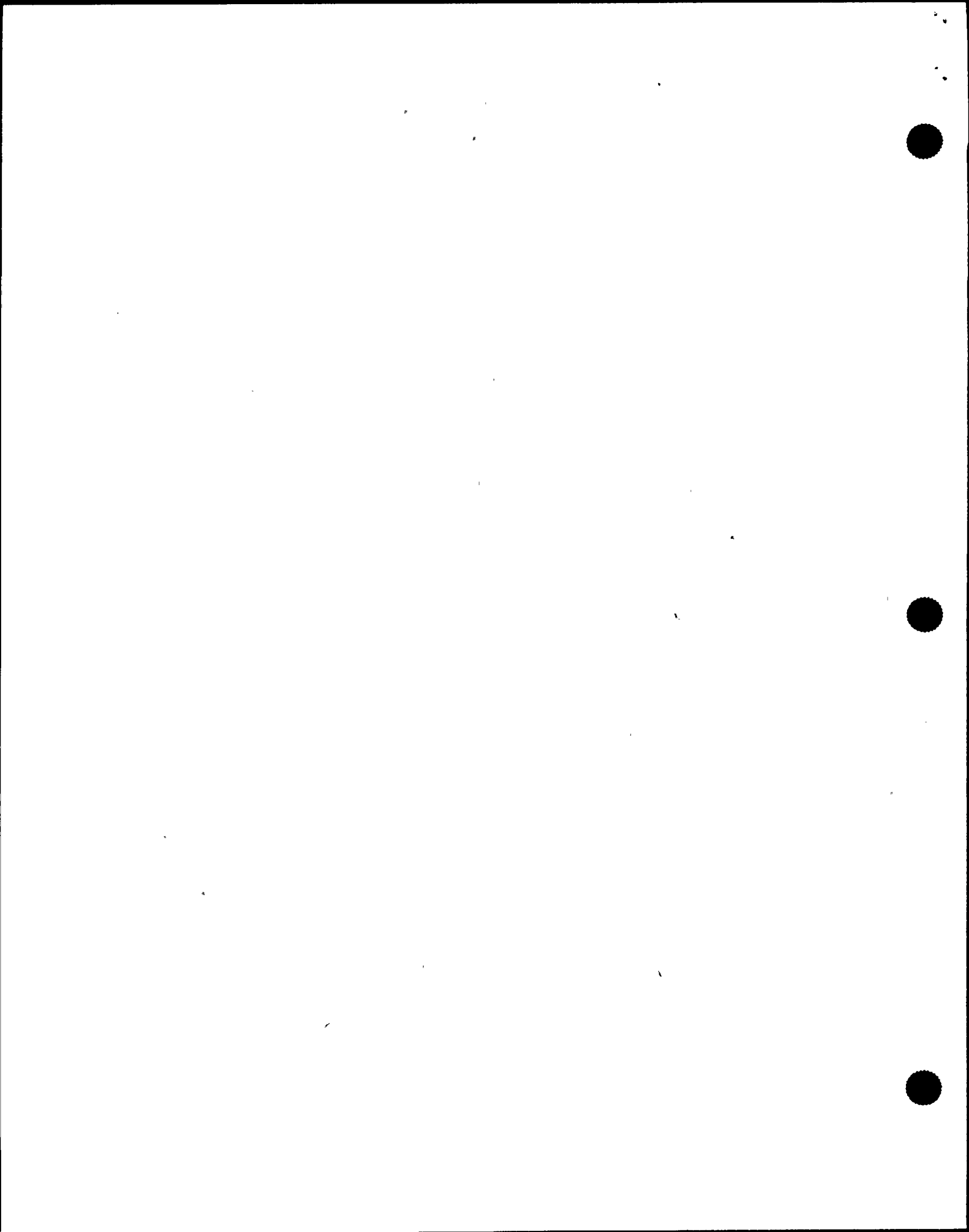
_____/_____

Date

- TSC _____
- OSC _____
- EOF _____

2. Other Surveillances/Drills/Evolutions:

- A. _____ / _____
- B. _____ / _____
- C. _____ / _____
- D. _____ / _____
- E. _____ / _____
- F. _____ / _____



REVISION NO: 3	PROCEDURE TITLE: MAINTAINING EMERGENCY PREPAREDNESS - EMERGENCY EXERCISES, DRILLS, TESTS AND EVALUATIONS ST. LUCIE PLANT	PAGE: 21 of 31
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ATTACHMENT 1
EP PROGRAM SCHEDULE
(Page 2 of 12)

FEBRUARY

(YEAR) _____

INITIAL / DATE

1. Emergency Response Facility Surveillance:

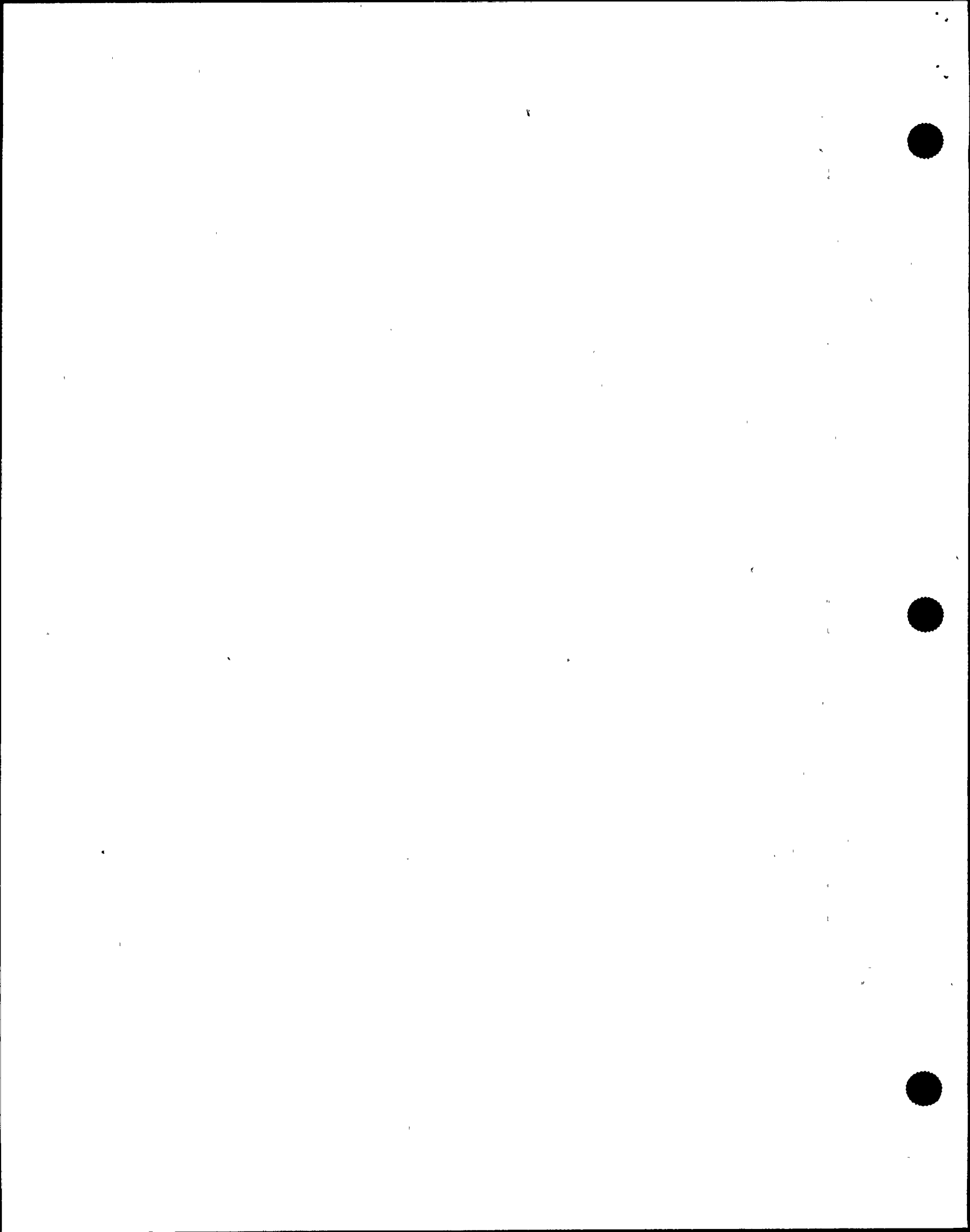
_____/____

Date

- TSC _____
- OSC _____
- EOF _____

2. Other Surveillances/Drills/Evolutions:

- A. _____ / _____
- B. _____ / _____
- C. _____ / _____
- D. _____ / _____
- E. _____ / _____
- F. _____ / _____



REVISION NO: 3	PROCEDURE TITLE: MAINTAINING EMERGENCY PREPAREDNESS - EMERGENCY EXERCISES, DRILLS, TESTS AND EVALUATIONS ST. LUCIE PLANT	PAGE: 22 of 31
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ATTACHMENT 1
EP PROGRAM SCHEDULE
(Page 3 of 12)

MARCH

(YEAR) _____

INITIAL / DATE

1. Emergency Response Facility Surveillance:

_____/____

Date

- TSC _____
- OSC _____
- EOF _____

2. Quarterly Alert and Notification Status
(Manager, Plant Services Report)

Quarter % Availability _____ / _____

3. Quarterly Emergency Response Directory Verification and
Update

_____/____

4. Quarterly Integrated Facility Activation Drill

Drill Date _____ / _____

5. Quarterly Off-Hours Call Out Drill

Drill Date _____ / _____

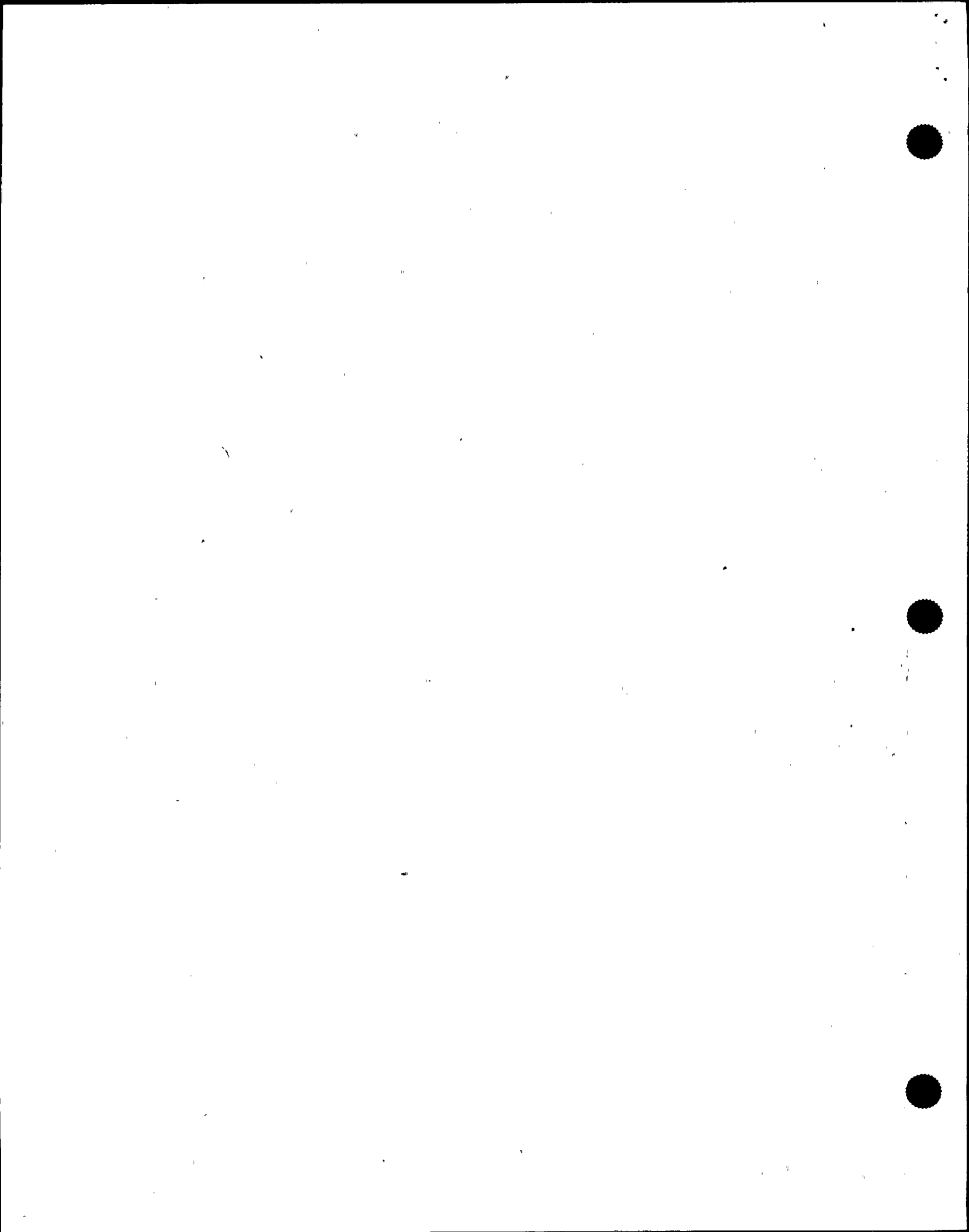
6. Quarterly Self-Assessment

_____/____

7. Other Surveillances/Drills/Evolutions

_____ / _____

_____ / _____



REVISION NO.: 3	PROCEDURE TITLE: MAINTAINING EMERGENCY PREPAREDNESS - EMERGENCY EXERCISES, DRILLS, TESTS AND EVALUATIONS ST. LUCIE PLANT	PAGE: 23 of 31
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**ATTACHMENT 1
EP PROGRAM SCHEDULE
(Page 4 of 12)**

APRIL

(YEAR) _____

INITIAL / DATE

1. Emergency Response Facility Surveillance: _____/_____

Date

- TSC _____
- OSC _____
- EOF _____

2. Other Surveillances/Drills/Evolutions:

- A. _____ / _____
- B. _____ / _____
- C. _____ / _____
- D. _____ / _____
- E. _____ / _____
- F. _____ / _____

REVISION NO.: 3	PROCEDURE TITLE: MAINTAINING EMERGENCY PREPAREDNESS - EMERGENCY EXERCISES, DRILLS, TESTS AND EVALUATIONS ST. LUCIE PLANT	PAGE: 24 of 31
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ATTACHMENT 1
EP PROGRAM SCHEDULE
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MAY (YEAR) _____

INITIAL / DATE

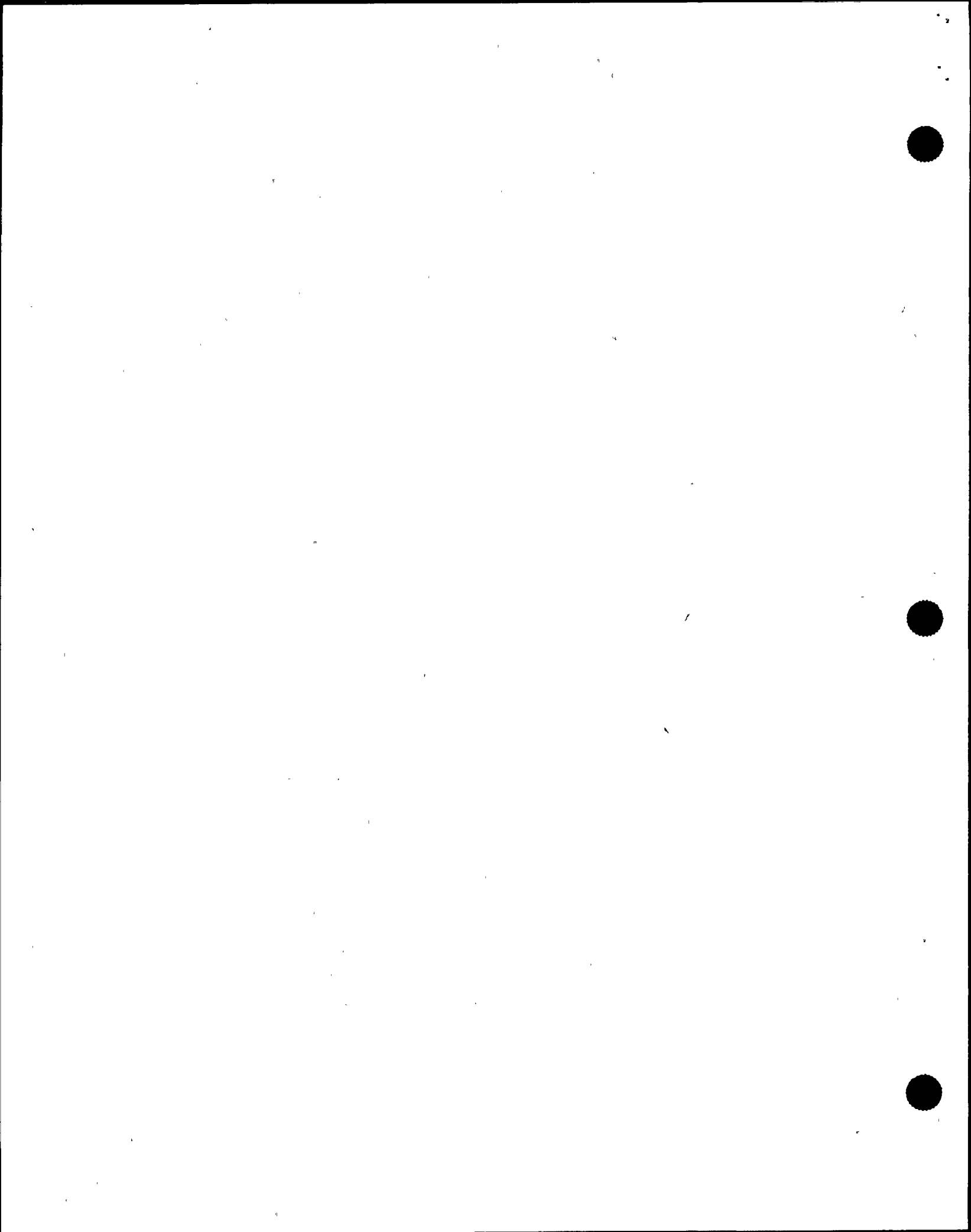
1. Emergency Response Facility Surveillance: _____ / _____

Date

- TSC _____
- OSC _____
- EOF _____

2. Other Surveillances/Drills/Evolutions:

- A. _____ / _____
- B. _____ / _____
- C. _____ / _____
- D. _____ / _____
- E. _____ / _____
- F. _____ / _____



REVISION NO.: 3	PROCEDURE TITLE: MAINTAINING EMERGENCY PREPAREDNESS - EMERGENCY EXERCISES, DRILLS, TESTS AND EVALUATIONS ST. LUCIE PLANT	PAGE: 25 of 31
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ATTACHMENT 1
EP PROGRAM SCHEDULE
(Page 6 of 12)

JUNE

(YEAR) _____

INITIAL / DATE

1. Emergency Response Facility Surveillance: _____/_____

Date

- TSC _____
- OSC _____
- EOF _____

2. Quarterly Alert and Notification Status
(Manager, Plant Services Report)

Quarter % Availability _____/_____

3. Quarterly Emergency Response Directory Verification and
Update _____/_____

4. Quarterly Integrated Facility Activation Drill

Drill Date _____/_____

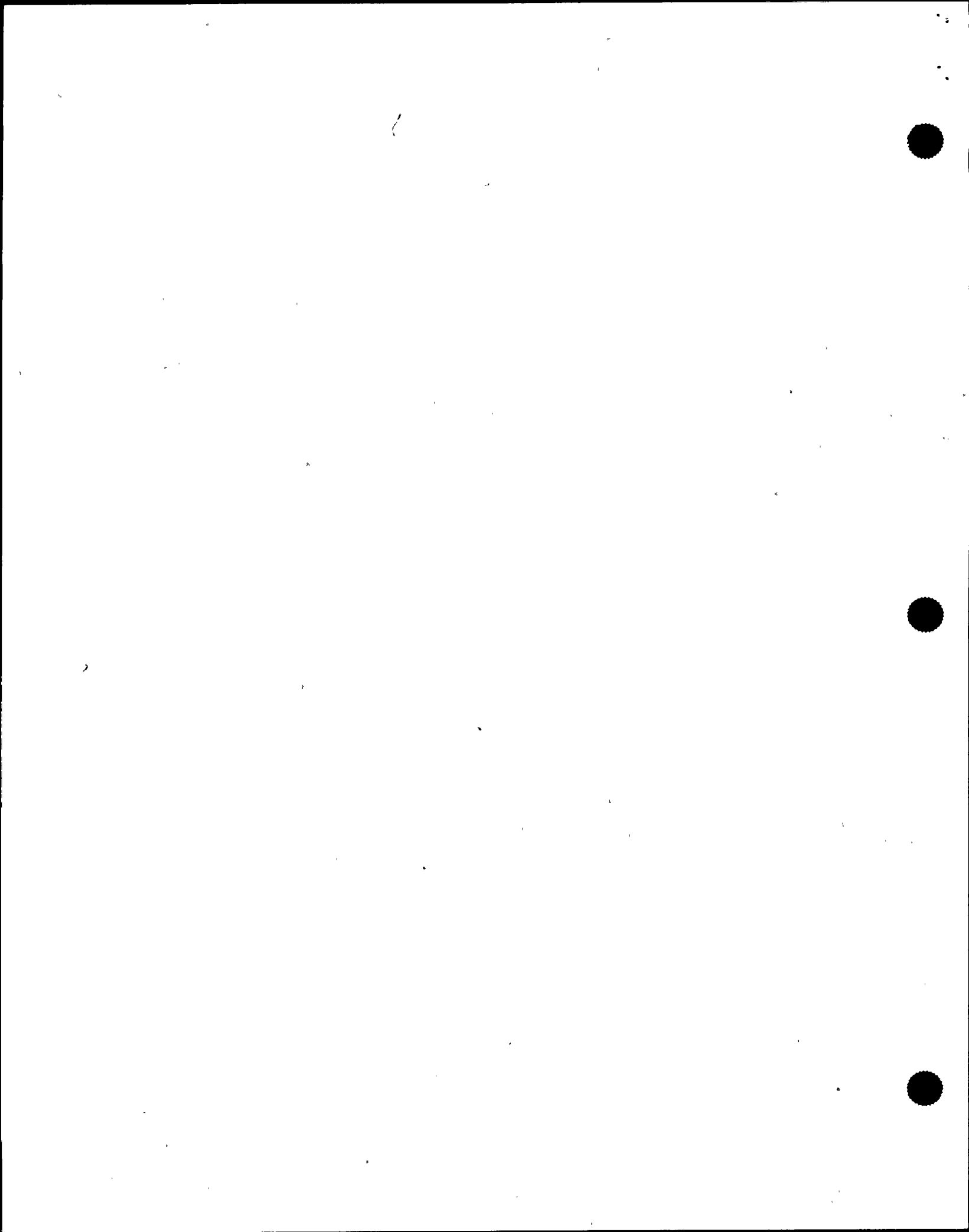
5. Quarterly Off-Hours Call Out Drill

Drill Date _____/_____

6. Quarterly Self-Assessment _____/_____

7. Other Surveillances/Drills/Evolutions

_____/_____
_____/_____



REVISION NO: 3	PROCEDURE TITLE: MAINTAINING EMERGENCY PREPAREDNESS - EMERGENCY EXERCISES, DRILLS, TESTS AND EVALUATIONS ST. LUCIE PLANT	PAGE: 26 of 31
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ATTACHMENT 1
EP PROGRAM SCHEDULE
(Page 7 of 12)

JULY (YEAR) _____

INITIAL / DATE

1. Emergency Response Facility Surveillance: _____ / _____

Date

- TSC _____
- OSC _____
- EOF _____

2. Other Surveillances/Drills/Evolutions:

- A. _____ / _____
- B. _____ / _____
- C. _____ / _____
- D. _____ / _____
- E. _____ / _____
- F. _____ / _____



REVISION NO: 3	PROCEDURE TITLE: MAINTAINING EMERGENCY PREPAREDNESS - EMERGENCY EXERCISES, DRILLS, TESTS AND EVALUATIONS ST. LUCIE PLANT	PAGE: 27 of 31
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ATTACHMENT 1
EP PROGRAM SCHEDULE
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AUGUST

(YEAR) _____

INITIAL / DATE

1. Emergency Response Facility Surveillance:

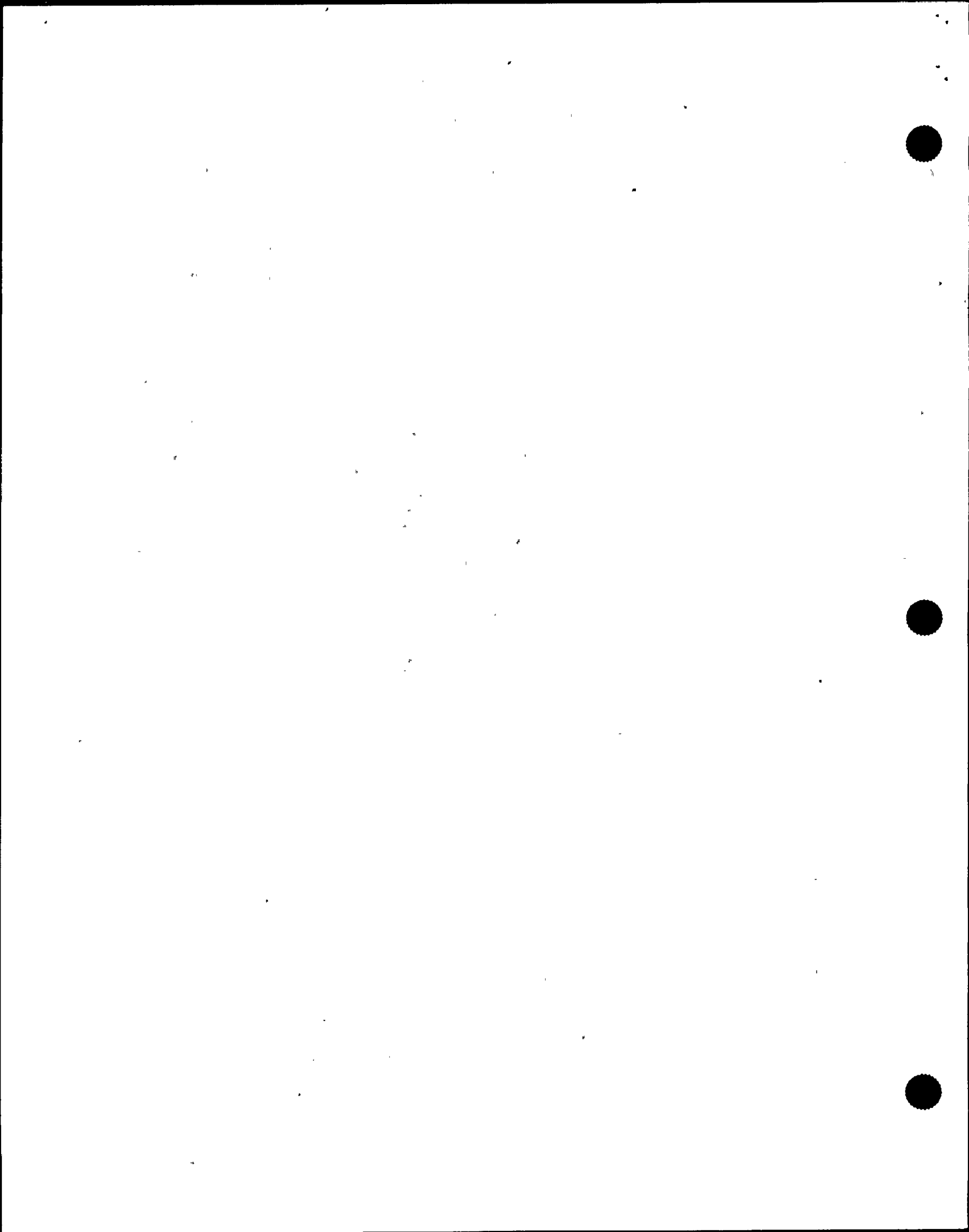
_____/____

Date

- TSC _____
- OSC _____
- EOF _____

2. Other Surveillances/Drills/Evolutions:

- A. _____ / _____
- B. _____ / _____
- C. _____ / _____
- D. _____ / _____
- E. _____ / _____
- F. _____ / _____



REVISION NO.: 3	PROCEDURE TITLE: MAINTAINING EMERGENCY PREPAREDNESS - EMERGENCY EXERCISES, DRILLS, TESTS AND EVALUATIONS ST. LUCIE PLANT	PAGE: 28 of 31
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ATTACHMENT 1
EP PROGRAM SCHEDULE
(Page 9 of 12)

SEPTEMBER

(YEAR) _____

INITIAL / DATE

1. Emergency Response Facility Surveillance:

_____/____

Date

- TSC _____

- OSC _____

- EOF _____

2. Quarterly Alert and Notification Status
(Manager, Plant Services Report)

Quarter % Availability _____

_____/____

3. Quarterly Emergency Response Directory Verification and Update

_____/____

4. Quarterly Integrated Facility Activation Drill

Drill Date _____

_____/____

5. Quarterly Off-Hours Call Out Drill

Drill Date _____

_____/____

6. Quarterly Self-Assessment

_____/____

7. Other Surveillances/Drills/Evolutions

_____/____

_____/____

REVISION NO: 3	PROCEDURE TITLE: MAINTAINING EMERGENCY PREPAREDNESS - EMERGENCY EXERCISES, DRILLS, TESTS AND EVALUATIONS ST. LUCIE PLANT	PAGE: 29 of 31
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ATTACHMENT 1
EP PROGRAM SCHEDULE
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OCTOBER

(YEAR) _____

INITIAL / DATE

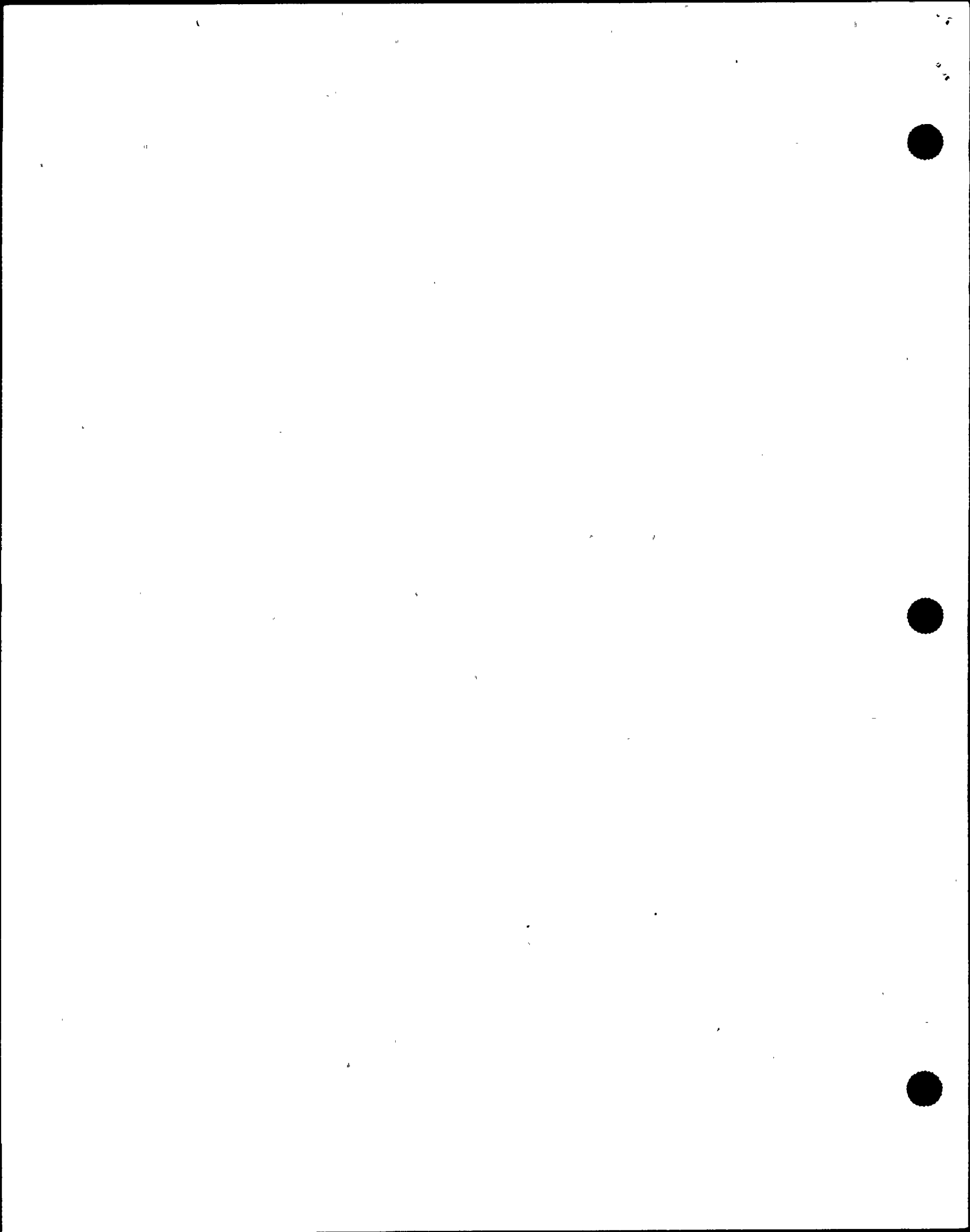
1. Emergency Response Facility Surveillance: _____/_____

Date

- TSC _____
- OSC _____
- EOF _____

2. Other Surveillances/Drills/Evolutions:

- A. _____ / _____
- B. _____ / _____
- C. _____ / _____
- D. _____ / _____
- E. _____ / _____
- F. _____ / _____



REVISION NO.: 3	PROCEDURE TITLE: MAINTAINING EMERGENCY PREPAREDNESS - EMERGENCY EXERCISES, DRILLS, TESTS AND EVALUATIONS ST. LUCIE PLANT	PAGE: 30 of 31
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ATTACHMENT 1
EP PROGRAM SCHEDULE
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NOVEMBER

(YEAR) _____

INITIAL / DATE

1. Emergency Response Facility Surveillance:

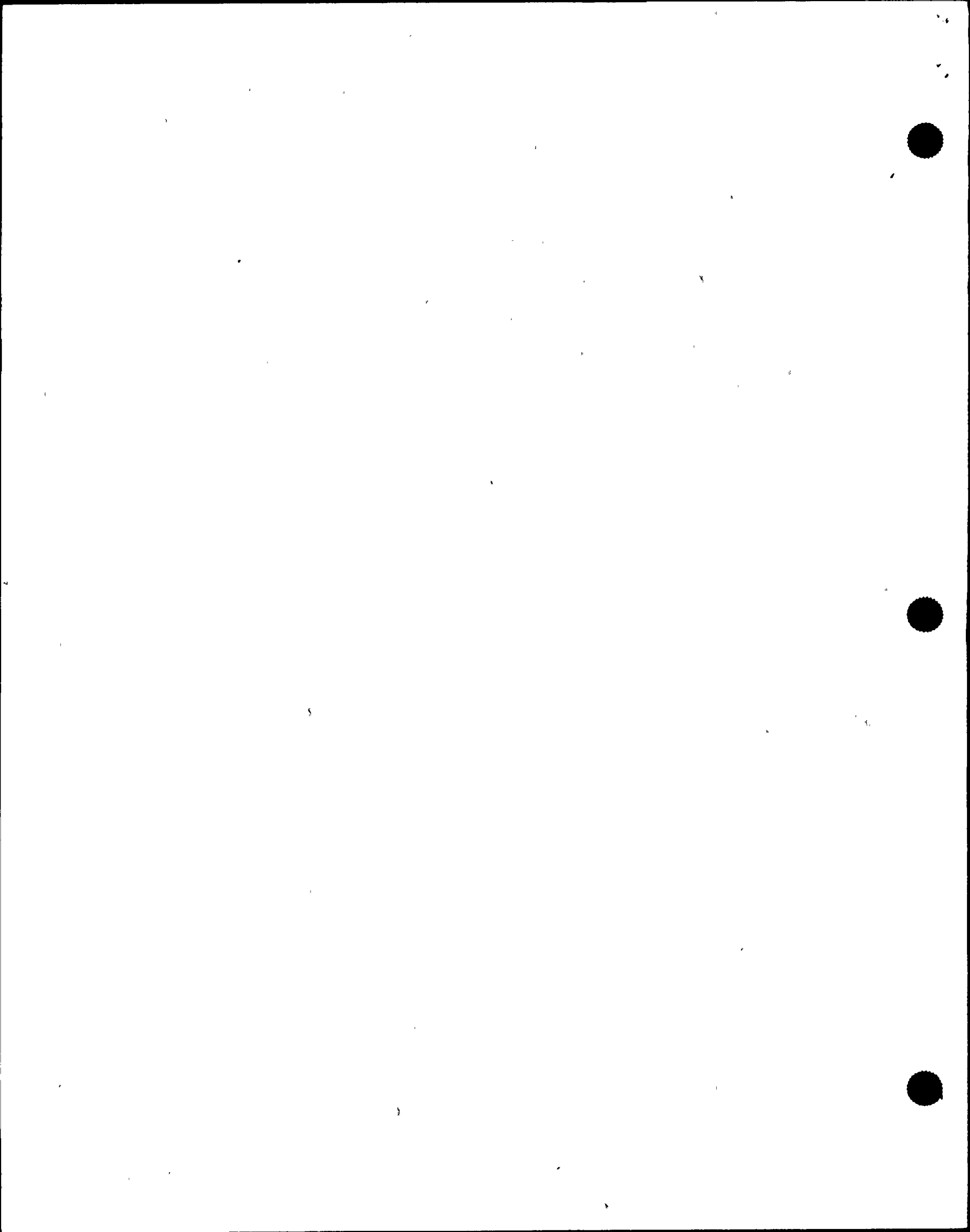
_____/____

Date

- TSC _____
- OSC _____
- EOF _____

2. Other Surveillances/Drills/Evolutions:

- A. _____ / _____
- B. _____ / _____
- C. _____ / _____
- D. _____ / _____
- E. _____ / _____
- F. _____ / _____



REVISION NO.: 3	PROCEDURE TITLE: MAINTAINING EMERGENCY PREPAREDNESS - EMERGENCY EXERCISES, DRILLS, TESTS AND EVALUATIONS ST. LUCIE PLANT	PAGE: 31 of 31
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ATTACHMENT 1
EP PROGRAM SCHEDULE
(Page 12 of 12)

DECEMBER

(YEAR) _____

INITIAL / DATE

1. Emergency Response Facility Surveillance: _____/_____

Date

- TSC _____
- OSC _____
- EOF _____

2. Quarterly Alert and Notification Status
(Manager, Plant Services Report)

Quarter % Availability _____/_____

3. Quarterly Emergency Response Directory Verification and
Update _____/_____

4. Quarterly Integrated Facility Activation Drill

Drill Date _____/_____

5. Quarterly Off-Hours Call Out Drill

Drill Date _____/_____

6. Quarterly Self-Assessment _____/_____

7. Other Surveillances/Drills/Evolutions

END OF ATTACHMENT 1

 FPL	ST. LUCIE PLANT EMERGENCY PLAN IMPLEMENTING PROCEDURE SAFETY RELATED	Procedure No. EPIP-02
		Current Rev. No. 4
		Effective Date: 11/08/99

Title: **DUTIES AND RESPONSIBILITIES OF THE EMERGENCY COORDINATOR**

*Superseded
paper per
Rev. 4 EPIP
dtd. 2/23/00
003687075*

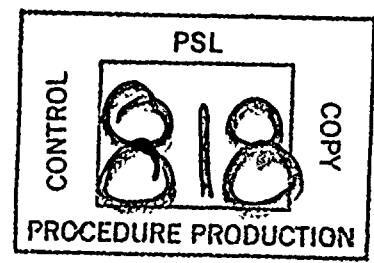
Responsible Department: **EMERGENCY PLANNING**

Revision Summary

Revision 4 - Clarified records required, revised EC turnover process, changed "at the site" to "within the Owner Controlled Area", clarified use of field monitoring data for PARs, added guidance for completing the NRC notification form, and made editorial changes. (J. R. Walker, 11/02/99)

Revision 3 - Added instruction (signoff) to ensure operators pick up emergency dosimetry (DRDs). (M. Gilmore, 09/08/99)

Revision 2 - Removed reference to the rotating maintenance shift supervisor from discussion/information related to the duty call supervisor. (J. R. Walker, 07/01/99)



Revision	FRG Review Date	Approved By	Approval Date	S__OPS
0	12/15/97	J. Scarola Plant General Manager	12/15/97	DATE _____ DOCT PROCEDURE _____ DOCN EPIP-02 _____ SYS _____ COMP COMPLETED _____ ITM 4 _____
4	11/02/99	R. G. West Plant General Manager	11/02/99	
		N/A Designated Approver		



REVISION NO.: 4	PROCEDURE TITLE: DUTIES AND RESPONSIBILITIES OF THE EMERGENCY COORDINATOR	PAGE: 2 of 65
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REVISION NO.: 4	PROCEDURE TITLE: DUTIES AND RESPONSIBILITIES OF THE EMERGENCY COORDINATOR	PAGE: 4 of 65
PROCEDURE NO.: EPIP-02	ST. LUCIE PLANT	

1.0 PURPOSE

This procedure provides guidance and instructions to be followed by the Emergency Coordinator when an emergency occurs that requires the implementation of the Radiological Emergency Plan for St. Lucie Plant.

NOTE

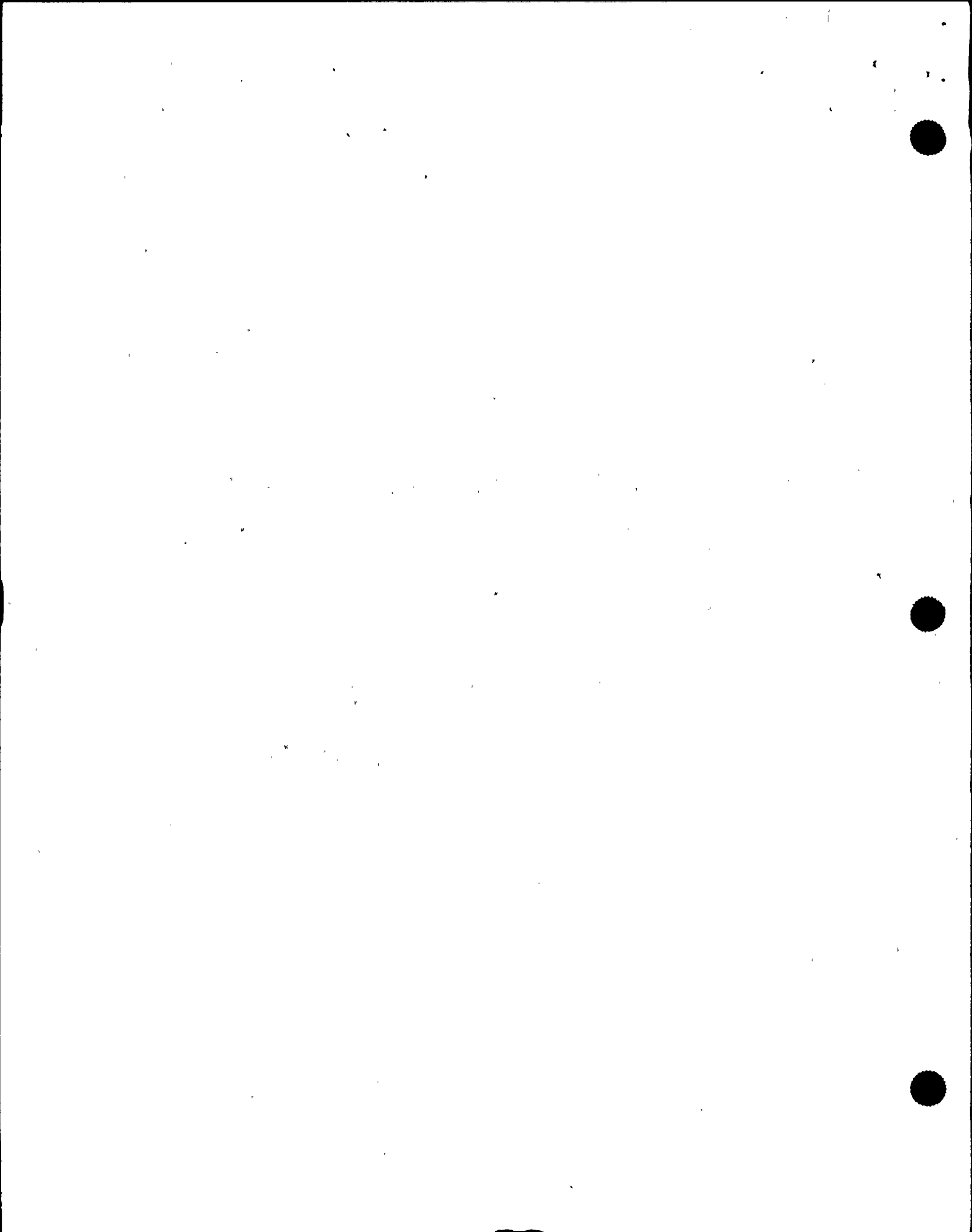
One or more of the following symbols may be used in this procedure:

- § Indicates a Regulatory commitment made by Technical Specifications, Condition of License, Audit, LER, Bulletin, etc., and shall NOT be revised without Facility Review Group review and Plant General Manager approval.
- ¶ Indicates a management directive, vendor recommendation, plant practice or other non-regulatory commitment that should NOT be revised without consultation with the plant staff.

2.0 REFERENCES/RECORDS REQUIRED/COMMITMENT DOCUMENTS

2.1 References

1. St. Lucie Plant Updated Final Safety Analysis Report (UFSAR) Unit 1 and Unit 2 (Section 9.5.A.7.2)
- §₁ 2. St. Lucie Plant Radiological Emergency Plan (E-Plan)
3. St. Lucie Plant Physical Security Plan
4. St. Lucie Plant Safeguards Contingency Plan
5. E-Plan Implementing Procedures (EPIP 00-13)
6. 10 CFR 50, Domestic Licensing of Production and Utilization Facilities.
7. NUREG/BR-0150, Vol. 1, Response Technical Manual (USNRC).
8. NUREG-0654, FEMA-REP-1, Rev. 1, Criteria for Preparation and Evaluation of Radiological Emergency Response Plans and Preparedness in Support of Nuclear Power Plants.



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2.0 REFERENCES/RECORDS REQUIRED/COMMITMENT DOCUMENTS (continued)		
2.1 (continued)		
9. EPA 400-R-92-001, Manual of Protective Actions Guides and Protective Actions for Nuclear Incidents, October, 1991.		
10. St. Lucie Plant General Policy PSL-110, Emergency Response.		
2.2 Records Required		
¶ ₁₀	A copy of the checklists or data generated by this procedure shall be maintained in the plant files in accordance with QI-17-PSL-1, Quality Assurance Records. Records include:	/R4
	1. Emergency Class Checklists	/R4
	2. State Notification Form	/R4
	3. NRC Notification Form	/R4
	4. Protective Action Recommendation Worksheet	/R4
2.3 Commitment Documents		
¶ ₁	1. PMAI PM96-04-165, "ITR 96-006" (Unusual Event Declared Due to Dropped Rod)	
¶ ₂	2. NRC Inspection Report 91-01, Closure of IFIs 89-31-03 and 89-31-01	
¶ ₃	3. PMAI PM96-09-185, Condition Report CR-96-1750 (Off-site Notification Using Commercial Phone)	/R4
¶ ₅	4. PMAI PM96-05-233, (Off-site Notification Process).	
¶ ₆	5. Condition Report CR 96-2389, (Off-site Dose Calculations).	
¶ ₇	6. Condition Report CR 98-1536 (EC Responsibilities Remain in the Control Room).	

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2.0 REFERENCES/RECORDS REQUIRED/COMMITMENT DOCUMENTS
(continued)

2.3 (continued)

- | | | |
|-----------------|---|-----|
| ¶ ₈ | 7. PMAI PM98-09-006 (Control of NLOs Under E-Plan). | |
| ¶ ₉ | 8. Condition Report CR 99-1406 (Field Operator Dosimetry Under E-Plan). | |
| ¶ ₁₀ | 9. PMAI PM99-10-191, Condition Report CR 99-1656 (Quality Records, Downpower Guidance Due to Hurricanes). | /R4 |
| ¶ ₁₁ | 10. PMAI PM99-10-142, Condition Report CR 99-1647 (EC Turnover). | /R4 |
| ¶ ₁₂ | 11. PMAI PM99-09-016, (PARs Based on FMT Data, Completion of NRC Notification Form). | /R4 |

3.0 RESPONSIBILITIES

3.1 The Nuclear Plant Supervisor (NPS) and the shift operating staff represent the first line of response to any developing emergency condition. The primary responsibility of the NPS is to control the condition as well as possible.

3.2 The NPS upon declaration of an emergency classification becomes the Emergency Coordinator (EC). The NPS remains the EC until the position is turned over.

Specific Responsibilities of the EC are:

Direction of the on-site emergency organization to bring the emergency under control.

Notification of off-site agencies within specific time limits as mandated by regulations.

Changes in Emergency Classification based on changing conditions.

Protective Action Recommendations (PARs) until turnover to the Recovery Manager.

Interfaces with the Nuclear Regulatory Commission (NRC) Reactor Safety Operations Coordinator (RSOC) when the NRC site team arrives at the TSC.

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4.0 DEFINITIONS

4.1 Owner Controlled Area Evacuation (= Site Evacuation) - The evacuation from the owner controlled area of all personnel except those required to place the plant in a safe condition, the Emergency Response Organization (ERO), and Security personnel to fulfill responsibilities for evacuation. /R4

4.2 Release (during any declared emergency)

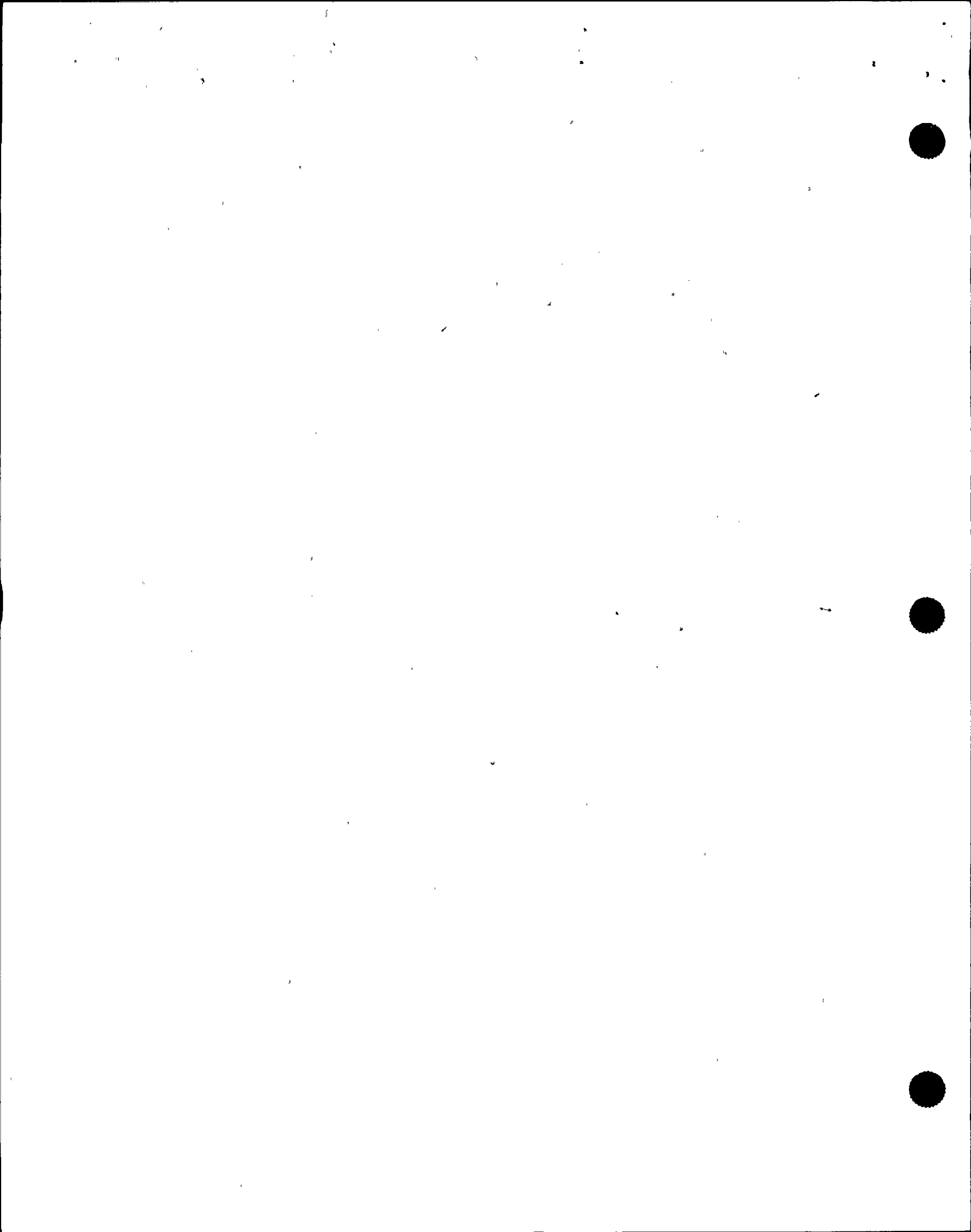
1. Any effluent monitor increase of (approximately) 10 times or one decade above pre-transient values.

OR

2. Health Physics detecting airborne radioactivity levels in excess of 25% derived air concentration (DAC) outside of plant buildings due to failure of equipment associated with the declared emergency.

4.3 Notification Process - defined to include the following steps:

1. Declaration of the Emergency Class by the Emergency Coordinator.
2. Completion of the notification forms with the required information consistent with the declared Emergency Class.
3. Approval of the information by the Emergency Coordinator.
4. Transmission of the information on the notification forms within the time limits mandated by the regulations.
 - A. State and local agencies - within about 15 minutes of Declaration of the Emergency classification.



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4.0 DEFINITIONS (continued)

4.3 (continued)

4. (continued)

NOTE

Notification of the NRC is expected immediately after notification of State and local agencies. The one hour time limit in 10 CFR 50.72 (a)(3) is to ensure timely NRC notification in cases where notification of State and local agencies is delayed or prolonged.

- B. NRC - the licensee shall notify the NRC immediately after notification of the appropriate State or local agencies and not later than one hour after the time the licensee declares one of the Emergency Classes (10 CFR 50.72 (a)(3)).

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5.0 INSTRUCTIONS

5.1 General Overview

- 17,11 1. Upon Declaration of an emergency classification the NPS becomes the EC.

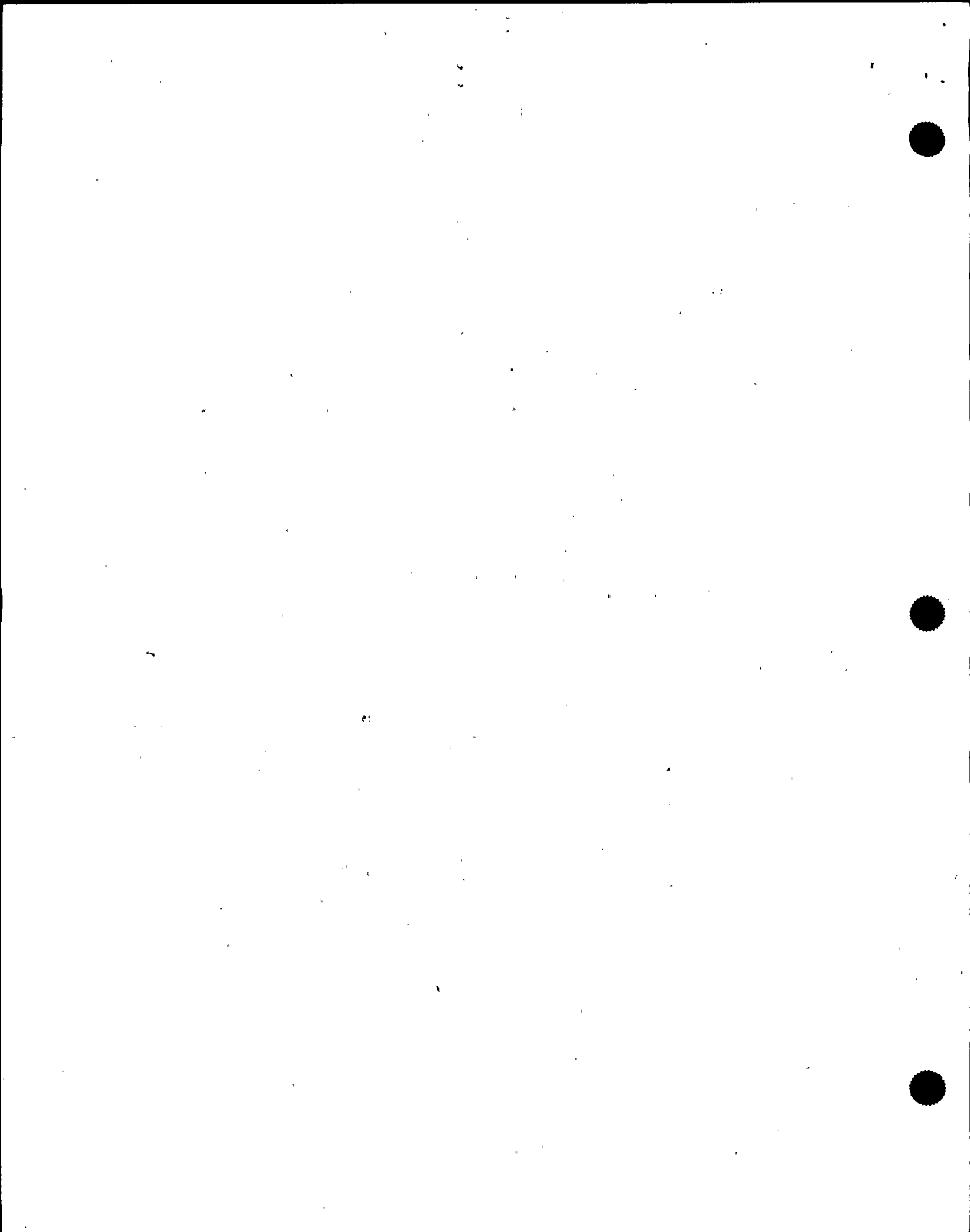
To ensure access to the EC for direction and control decisions and so that the responsibilities of the position can be successfully completed, the EC position shall remain, initially in the affected Control Room and then in the Technical Support Center (TSC), when it goes operational.

Prior to the TSC being operational, the duties and responsibilities of the EC, while a Control Room position, may be turned over to another qualified EC:

- If both Units are in classified events, the EC should locate in the Unit's Control Room with the highest classified event. If the site is in a dual Unit event, the EC should locate in the Unit 1 Control Room (due to proximity to the TSC).

If the TSC is activated, Then the EC position is turned over to an EC qualified member of plant management and the position relocated to the TSC. The prospective EC receives a turnover (refer to Attachment 9, Turnover Guidelines) from the Control Room EC and then reports to the TSC. Following verification of TSC operational readiness, the prospective EC accepts EC responsibility from the Control Room EC. The TSC EC may temporarily turnover responsibility to the TSC OPS Coordinator as the need arises.

2. To meet the above responsibilities, plus others described in this procedure, the EC will likely need to delegate many tasks. Although delegated, the completion of these tasks is still the responsibility of the EC.



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5.0 INSTRUCTIONS

5.1 General Overview

2. (continued)

The EC shall not delegate the following responsibilities prior to Emergency Operations Facility (EOF) being declared operational:

- A. Classification of the emergency.
- B. The decision to notify state and local authorities and the content of those notifications.
- C. Recommendation of protective actions for the public.

Once the EOF is operational and proper turnover has been conducted, the Recovery Manager (RM) will assume responsibility for off-site notifications to the state and local authorities and for recommending protective actions.

3. Order of Succession

If the NPS is incapacitated, Then the EC shall be (in order of succession):

- A. Assistant Nuclear Plant Supervisor (ANPS) (from the affected unit)
- B. Nuclear Watch Engineer (NWE)
- C. Any other member of the plant staff with an active SRO license.

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5.0 INSTRUCTIONS (continued)

5.1 General Overview (continued)

4. Off-site Notification

- A. If, due to rapidly degrading conditions, Emergency Class escalation is known to be necessary, prior to completion of the notification process, Then:**

Provide the state and local authorities with the initial notification information by completing steps 1-5 of the State of Florida Notification Message Form.

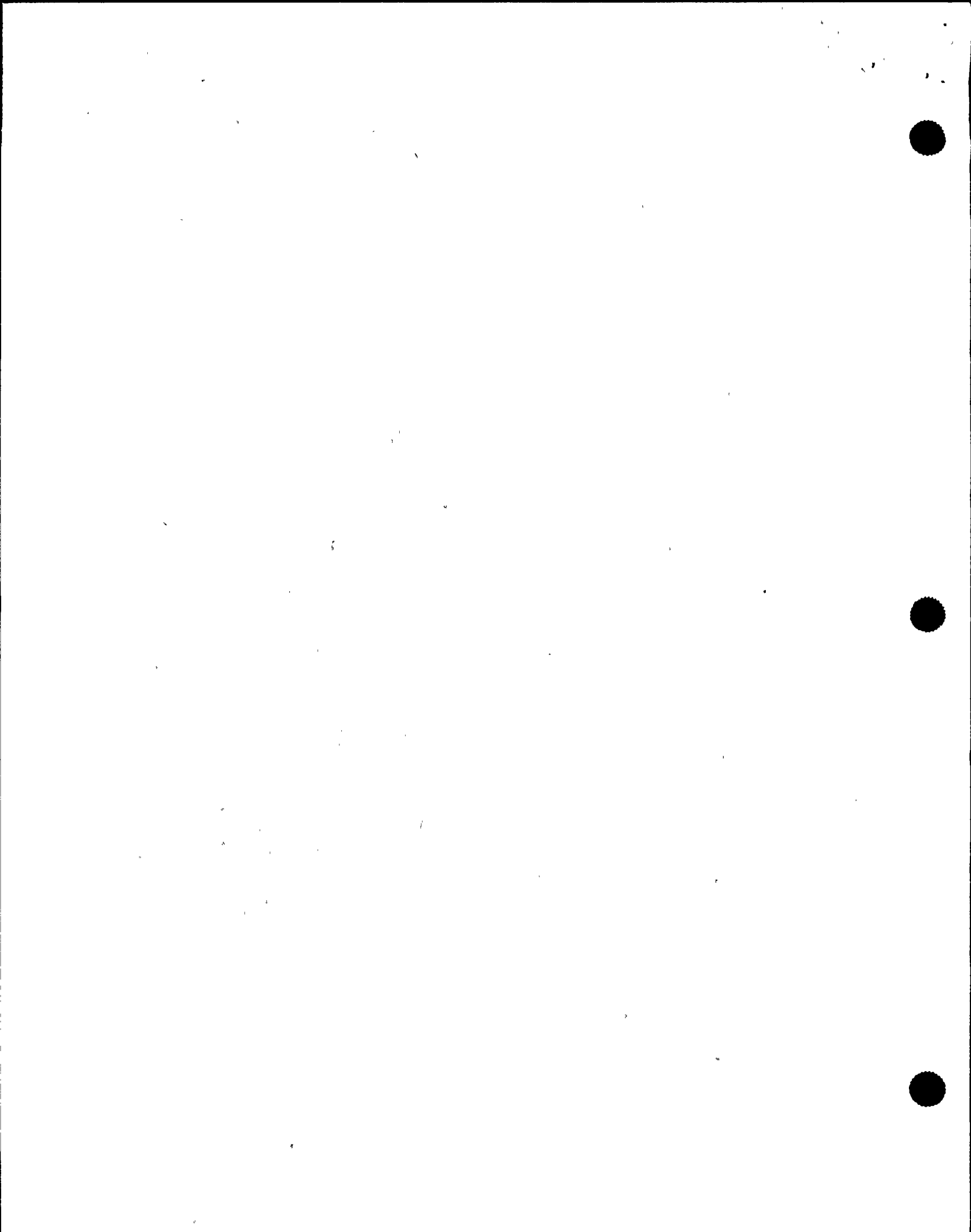
Terminate the phone call by informing the state and local authorities that a new notification form will be transmitted within 15 minutes.

OR

Begin transmitting the new notification form describing the conditions associated with the upgraded Emergency Class.

Ensure that the NRC is informed following notification of the state and local authorities but no later than 60 minutes from the initial Emergency Class declaration (an open line will be established with the NRC at an Alert or higher Emergency Class).

- B. If one unit is in a classified event and the same or the other unit enters into an event where the same or lesser emergency class would apply, a new classification should NOT be declared. The event should be issued as an update at the earliest practical time.**
- C. If one unit is in a classified event and the other unit enters into a more severe event in which a higher emergency class would apply, the new classification would be declared and promptly, within the regulatory time limits, issued to the state, counties and NRC.**



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5.0 INSTRUCTIONS (continued)

5.1 General Overview (continued)

5. Off-site Communication Content

During initial notification, the information provided in describing the emergency should be brief yet descriptive enough for the off-site authorities to gain an understanding of the event. It should be clear from the incident description which Emergency Action Level (EAL) has necessitated the emergency declaration. Wording should be as non-technical as possible with no abbreviations (e.g., reactor coolant pump instead of RCP). Potential for degradation of plant conditions is always of interest to the off-site authorities. Proper, accurate information will preclude the need for follow-up information or numerous questions from off-site authorities.

6. Off-site Communication Updates

Updates to off-site authorities may be more detailed than initial notifications, but should remain in layman's terms. The state and local authorities should be updated upon any significant change in plant status (e.g., start or termination of a release, loss of major plant equipment, loss of off-site or on-site power, etc.) in addition, routine updates should be made every 60 minutes for an Alert or higher emergency declaration. The update frequency may be changed if agreed to by off-site authorities and FPL, in advance. Long, detailed explanations of plant systems or reactor theory should be avoided. If prompted for this kind of information by the State Duty Officer, refer him to the Nuclear Division Duty Officer (NDDO).

/R4

¶, If erroneous information is transmitted to off-site authorities and the error is discovered prior to event termination, a correction should be provided in an update. The need for and urgency of providing the update is dependent upon the importance of the error.

¶, If erroneous information is transmitted to off-site authorities, and the error is discovered after event termination, the Licensing Department should be consulted on the need and method for contacting the off-site authorities with corrected information.

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5.0 INSTRUCTIONS (continued)

5.1 General Overview (continued)

7. Emergency Follow-Up Information

All incoming calls should come via the State Warning Point (SWP) over the HOT RING DOWN (HRD) phone. If the HRD is inoperable, the SWP may use commercial telephone or ESATCOM. If an off-site authority contacts the Plant without going through the SWP, request that they contact SWP. SWP shall verify that the agency calling is a risk county or the Department of Health (DOH) and shall notify other county and state authorities of the updated information, thus reducing the number of calls that may be directed to the Plant.

8. Protective Action Recommendations

Protective Action Recommendations (PARs) should be made utilizing all of the available data. This includes plant status and/or off-site dose projections. The most conservative recommendations should be made.

9. General Emergency - Minimum PARs

In any case where a GENERAL EMERGENCY has been declared, the minimum PAR shall be: Shelter all people within a 2 mile radius and out to 5 miles in the downwind sectors.

10. Security Event

A. Site security and Local Law Enforcement (LLEA) will take the lead in response to a Security Event in accordance with the Security Plan.

B. Based on the nature of the Security Event and as conditions warrant, the Emergency Coordinator may delay, postpone or institute special arrangements concerning, but not limited to:

Emergency Response Facility (ERF) activation

Local or Site Evacuation

Site or Radiation Controlled Area (RCA) access

Operator field activities

Unit shutdown



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5.0 INSTRUCTIONS (continued)

5.1 General Overview (continued)

10. Security Event (continued)

C. Intruder General Emergency - minimum PARs

If the GENERAL EMERGENCY has been declared due to loss of physical control of the plant to intruders, including the Control Room or any other area(s) vital to the operation of the reactor system (as defined in the Security Plan), the minimum PAR shall be: Evacuate all people within a 2 mile radius from the plant and out to 5 miles in the downwind sectors. Shelter all people in the remaining sectors from 2 to 5 miles and from 5 to 10 miles from the plant.

D. Watch Relief

The EC shall grant permission for watch relief, including his own, only when it is safe in his judgement to do so.

11. Severe Weather Considerations

11.0

If a hurricane warning is in effect, and either one or both Unit(s) is/are in Mode 1, 2 or 3, Then use the following criteria for unit shutdown:

/R4

A. For storms projected to reach a Category 1 or 2, the unit(s) shall be placed in HOT STANDBY (Mode 3) or below at least two (2) hours before the projected onset of sustained hurricane force winds within the Owner Controlled Area and both units shall remain off-line for the duration of the hurricane force winds (or restoration of reliable offsite power).

/R4

B. For storms projected to reach Category 3, 4 and 5 prior to landfall, the units shall be shut down to a temperature less than 350 degrees T ave. at least two (2) hours before the projected onset of sustained hurricane force winds within the Owner Controlled Area and both units shall remain off-line for the duration of the hurricane force winds (or restoration of reliable offsite power).

/R4

C. Establish an acceptable update frequency with state and local officials.

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5.0 INSTRUCTIONS (continued)

5.1 General Overview (continued)

12. Drill Messages

During exercises, drills, or tests, **ALL MESSAGES** shall begin and end with **THIS IS A DRILL** or **THIS IS AN EXERCISE** or **THIS IS A TEST**.

END OF SECTION 5.1



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5.0 INSTRUCTIONS (continued)

TIME / INIT

5.2 Emergency Declaration Checklist

CAUTION

State and/or local authorities shall be notified within 15 minutes of declaration of the emergency classification.

NOTE

Steps should be performed in the order presented. When conditions warrant, steps may be performed out of sequence. PA announcements are provided as a guideline. Actual announcements may vary from the text provided.

1. The NPS shall declare the emergency to the Control Room staff and formally announce that he/she is the Emergency Coordinator (EC). ____/____

2. Notify plant personnel using Gai-tronics and boost function. ____/____

"Attention all plant personnel, Unit (1) (2) has declared (classification). Shift Technical Advisor and Duty Call Supervisor report to the Control Room immediately. All other plant personnel be aware and listen for further instructions. Limit radio and phone use until further notice." ____/____



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5.0 INSTRUCTIONS (continued)

TIME / INIT

5.2 Emergency Declaration Checklist (continued)

NOTE

The Duty Call Supervisor (DCS) is a specifically designated and trained supervisor responsible for assisting the Emergency Coordinator (EC) in making notifications and calls to the Emergency Response Organization (ERO).

3. Complete the appropriate Emergency Classification Section Checklist (attached):

A. Section 5.3 (Notification of) Unusual Event Checklist

___/___

B. Section 5.4 Alert Checklist

___/___

C. Section 5.5 Site Area or General Emergency Checklist

___/___

END OF SECTION 5.2

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5.0 INSTRUCTIONS (continued)

TIME / INIT

5.3 Unusual Event Checklist

Date ___/___/___
Message # _____

NOTE

- Complete a new checklist for each notification made during an Unusual Event emergency.
- The terms "release" and "notification" have specific definitions in Section 4.0 of this procedure.

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1. If a radioactive release has occurred or is in progress, Then notify Chemistry to promptly perform off-site dose calculations per EPIP-09, Off-site Dose Calculations, and report results to the EC. If Chemistry is unavailable, Then have the DCS call out a TSC Dose Assessor. ___/___
2. If evacuation of an area is necessary, Then initiate a local evacuation in accordance with EPIP-07, Conduct of Evacuations/Assembly. (Refer to Attachment 8, Criteria for Evacuation.) ___/___
3. Mobilize emergency response personnel to respond as required using Gai-tronics and boost function. ___/___

NOTE

Attachment 3, Directions for Completing the State of Florida Notification Message Form for Nuclear Power Plants, may be helpful in performing the following step. The Duty Call Supervisor (DCS) may perform this step.

4. Prepare the State of Florida Notification Message Form (Attachment 2) including Protective Action Recommendations. ___/___

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5.0 INSTRUCTIONS (continued)

TIME / INIT

5.3 Unusual Event Checklist (continued)

/R4

NOTE

If Emergency Class escalation is known to be necessary, Then terminate the notification after line 5 of the State of Florida Notification Message Form.

OR

Begin transmitting the information from the new notification form describing the conditions associated with the upgraded emergency class.

5. Notify State Warning Point (SWP) within 15 minutes of the declaration of the emergency. This may be accomplished by the DCS. _____/_____

A. Using the State HOT RING DOWN (HRD) Phone, dial 100.

B. When the State answers, provide the information from the State of Florida Notification Message Form.

C. If the HRD is inoperable, Then go to the Alternate Notification Methods at the end of this checklist.

6. Ensure notification of Plant Management, Security and the Nuclear Division Duty Officer (NDDO). This may be accomplished by the DCS. _____/_____

7. Prepare the NRC Event Notification Worksheet. _____/_____

8. Notify the NRC via the Emergency Notification System (ENS) phone immediately after notification of the state and counties. This shall be accomplished within one hour. This may be accomplished by the DCS. _____/_____

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5.0 INSTRUCTIONS (continued)

TIME / INIT

5.3 Unusual Event Checklist (continued)

/R4

9. Reassess corrective and protective actions. Verify assigned activities are under way and proper progress is being made. Reassign personnel and emergency teams as necessary.
10. Continue to assess conditions and review any changes against the Emergency Action Levels (EALs) in EPIP-01, Classification of Emergencies.
11. Reclassify the event as necessary and follow instructions in the appropriate checklist.

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NOTE
New notification forms shall be completed for all updates.

12. If the classification is unchanged but a significant change in plant conditions has occurred, Then start a new Unusual Event Checklist, prepare notification forms and make the appropriate notifications as soon as possible. /
13. If the event can be terminated, Then complete the notification forms (State, NRC) and notify the following:

State Warning Point	<u> / </u>
Plant Management	<u> / </u>
Security	<u> / </u>
NDDO	<u> / </u>
NRC	<u> / </u>

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5.0 INSTRUCTIONS (continued)

TIME / INIT

5.3 Unusual Event Checklist (continued)

14. Alternate Notification Methods (recommended format):

/R4
/R4

NOTE

Use of the commercial telephone as an alternate notification method requires callback verification from the State Warning Point. Use of ESATCOM or Local Government Radio as an alternate notification method should include a callback verification number if available (e.g., cellular phone).

A. Alternate 1 - Commercial phone

Call the State Warning Point using the phone number in the St. Lucie Plant Emergency Response Directory (ERD). Announce "This is St. Lucie Unit ____ Nuclear Plant with an emergency declaration. My callback number is ____."

Hang up the phone and standby for the callback. When the State Warning Point gives the go-ahead, provide the information from the State of Florida Notification Message Form. _____/_____

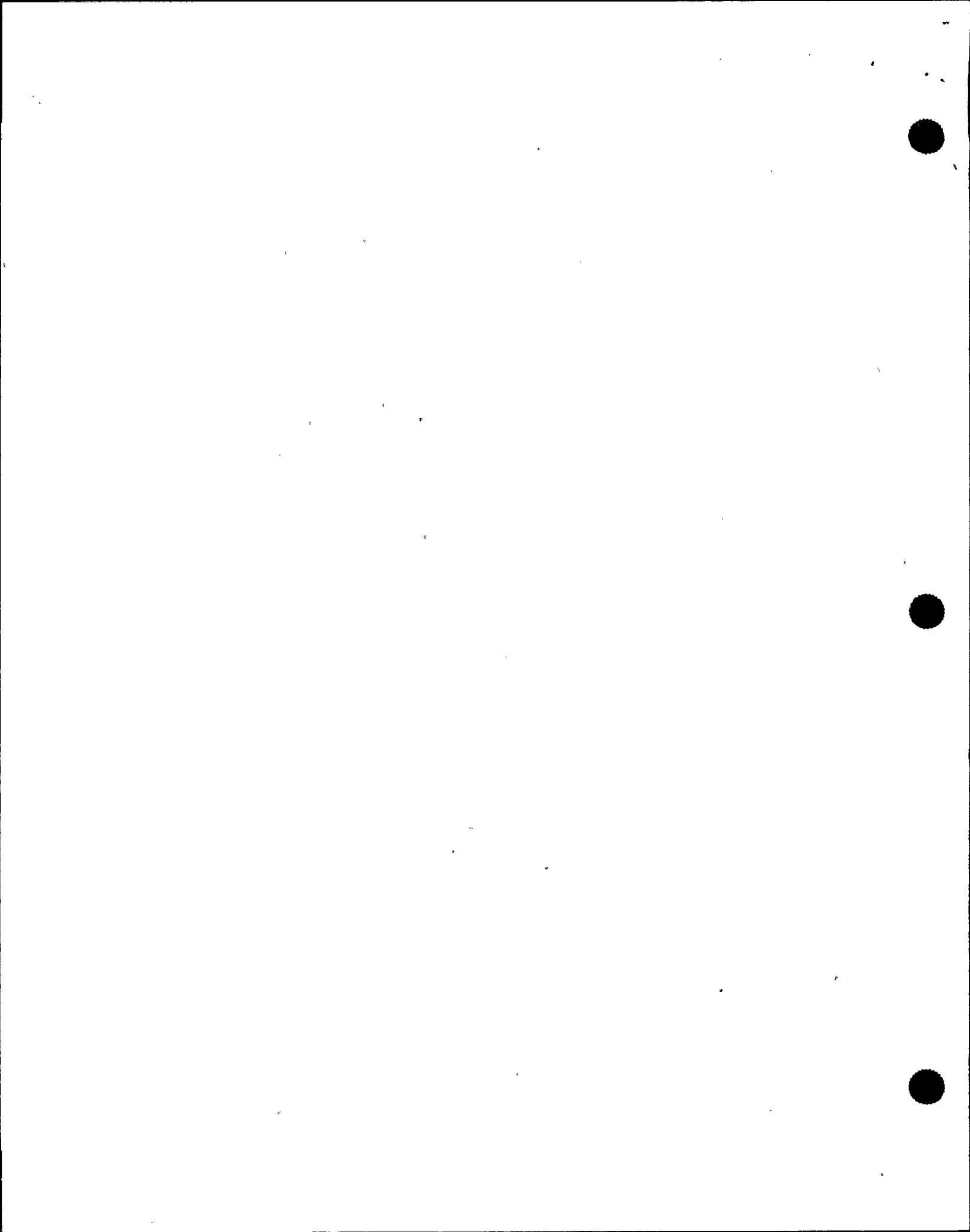
Request callback to verify that State Warning Point has notified St. Lucie and Martin Counties and the Bureau of Radiation Control. _____/_____

B. Alternate 2 - ESATCOM

Hold down the button on the handset and wait 3-5 seconds to hear a beep before you start talking. This must be done each time you talk.

Announce "State Warning Point, this is St. Lucie Unit ____," then release the button in order to listen.

When the State Warning Point acknowledges, announce "State Warning Point, this is St. Lucie Unit ____ (classification), repeat (classification)."



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5.0 INSTRUCTIONS (continued)

TIME / INIT

5.3 Unusual Event Checklist (continued)

/R4

14. Alternate Notification Methods (recommended format): (continued)

B. Alternate 2 - ESATCOM (continued)

When the State Warning Point gives the go-ahead, provide the information from the State of Florida Notification Message Form.

Announce "St. Lucie clear" at the end of the conversation. _____/_____

C. Alternate 3 - Local Government Radio (LGR) communication to St. Lucie and Martin County Emergency Operations Centers (EOCs) with relay to the State Warning Point.

On channel 2, contact the county EOCs by depressing the transmit button and announcing "St. Lucie County EOC, this is St. Lucie Nuclear Unit _____. Over." When St. Lucie County replies, direct them to standby while you contact Martin County.

When both counties are online, announce "Martin and St. Lucie County EOCs, this is St. Lucie Nuclear Unit _____ declaring a (classification), repeat (classification). I am standing by to transmit State of Florida Notification Message Form information when you are ready to copy. Over."

When the counties give the go-ahead, provide the information from the State of Florida Notification Message Form.

End the conversation by announcing "This is St. Lucie Unit _____, KNGR 874, over and out." _____/_____

END OF SECTION 5.3

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5.0 INSTRUCTIONS (continued)

TIME / INIT

5.4 Alert Checklist

Date / /
Message #

<p>NOTE</p> <ul style="list-style-type: none"> • For assistance with control of Non-licensed Operators (NLOs), refer to: <ul style="list-style-type: none"> ■ Attachment 10, Re-entry Guidelines. ■ Attachment 11, Basis for Exposure Limits for Emergency Response Personnel. • Complete a new checklist for each notification made during an Alert emergency. • The terms "release" and "notification" have specific definitions in Section 4.0 of this procedure.

1/6

1. If a radioactive release has occurred or is in progress, Then notify Chemistry to promptly perform off-site dose calculations per EPIP-09, Off-site Dose Calculations, and report results to the EC. If Chemistry is unavailable, Then have the DCS call out a TSC Dose Assessor. /
2. If evacuation of an area is necessary, Then initiate a local evacuation in accordance with EPIP-07, Conduct of Evacuations/Assembly. (Refer to Attachment 8, Criteria for Evacuation.) /
3. Notify plant personnel of the emergency declaration using Gai-tronics and boost function (N/A for updates).

"Attention all plant personnel, Unit (1) / (2) has declared an ALERT."

"All emergency response organization personnel report at once to your assigned emergency response facility."

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5.0 INSTRUCTIONS (continued)

TIME / INIT

5.4 Alert Checklist (continued)

/R4

3. (continued)

"All non-emergency response organization personnel report to your normal work location or contact your supervisor."

Repeat the announcement.

___/___

1/2

4. If a release is in progress, Then review personnel access with Health Physics personnel and notify Security personnel with any special instructions (N/A for updates).

___/___

5. Notify the DCS to initiate staff augmentation in accordance with EPIP-03, "Emergency Response Organization Notification/ Staff Augmentation." (N/A for updates.)

___/___

NOTE

Attachment 3, Directions for Completing the State of Florida Notification Message Form for Nuclear Power Plants, may be helpful in performing the following step. The DCS may perform this step.

6. Prepare the State of Florida Notification Message Form (Attachment 2) including Protective Action Recommendations.

___/___

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5.0 INSTRUCTIONS (continued)

TIME / INIT

5.4 Alert Checklist (continued)

/R4

NOTE

If Emergency Class escalation is known to be necessary, Then terminate the notification after line 5 of the State of Florida Notification Message Form.

OR

Begin transmitting the information from the new notification form describing the conditions associated with the upgraded emergency class.

7. Notify State Warning Point (SWP) within 15 minutes of declaration of the emergency. This may be accomplished by the DCS. _____/_____

A. Using the State HOT RING DOWN (HRD) Phone, dial 100.

B. When the State answers, provide the information from the State of Florida Notification Message Form.

C. If the HRD is inoperable, Then go to the Alternate Notification Methods at the end of this checklist.

8. Verify notification of Plant Management, Security and the NDDO. This may be accomplished by the DCS. _____/_____

9. Prepare the NRC Event Notification Worksheet. _____/_____

10. Notify the NRC via the Emergency Notification System (ENS) phone immediately after notification to the State and counties. This shall be accomplished within one hour. This may be accomplished by the DCS. _____/_____



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PROCEDURE NO.: EPIP-02	ST. LUCIE PLANT	

5.0 INSTRUCTIONS (continued) TIME / INIT

5.4 Alert Checklist (continued) /R4

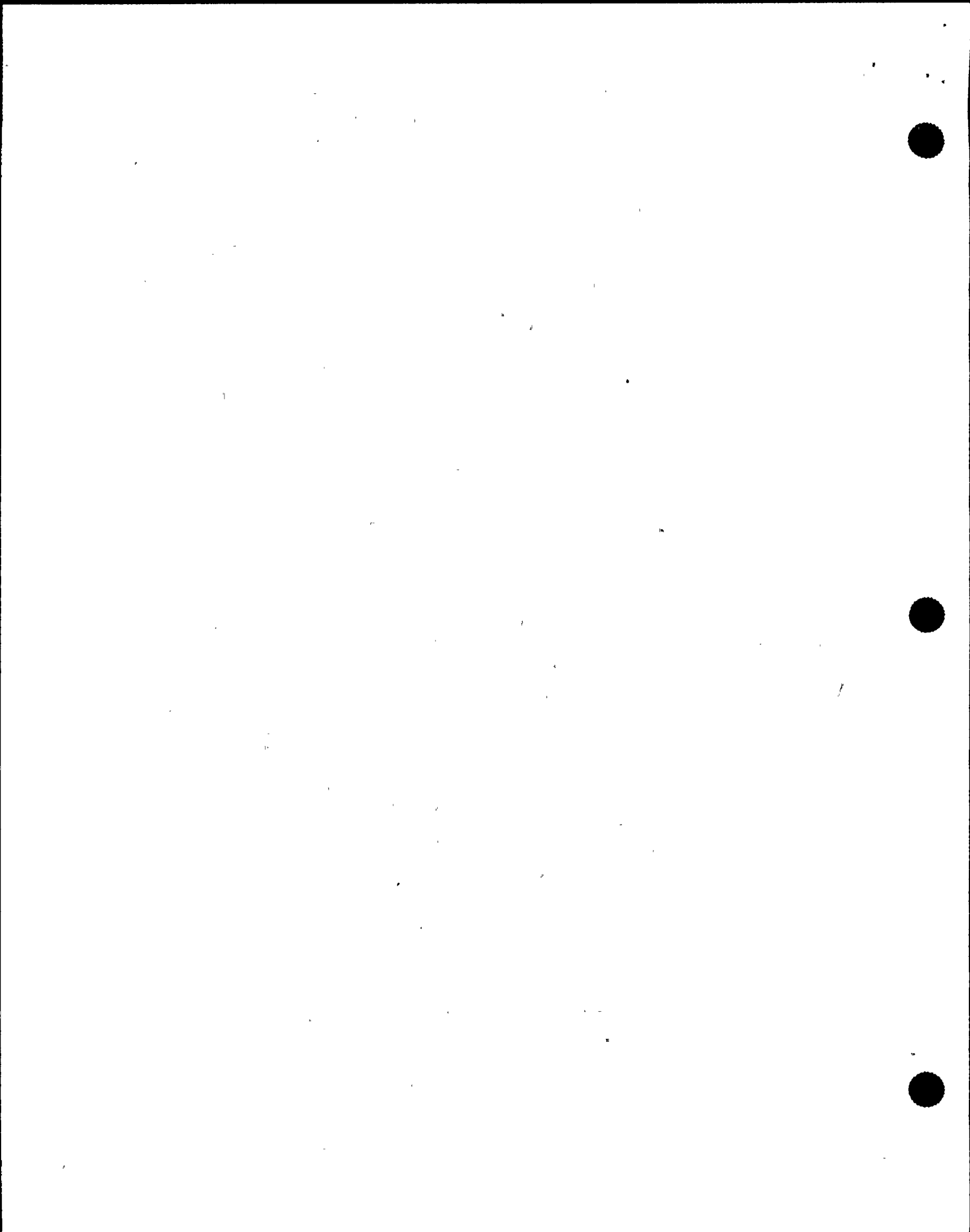
- 11. Initiate the Operations Department Accountability Aid for both Unit 1 and Unit 2 and provide this list to the TSC when requested (N/A for updates). ____/____
- 11₉ 12. Ensure Operations field personnel have returned to the Control Room to obtain emergency Electronic Personal Dosimetry (EPD) from the HP Kit. ____/____ /R4
- 13. Reassess corrective and protective actions. Verify assigned activities are under way and proper progress is being made. Reassign personnel and emergency teams as necessary.
- 14. Continue to assess conditions and review any changes against the Emergency Action Levels (EALs) in EPIP-01, Classification of Emergencies.
- 15. Reclassify the event as necessary and follow instructions in the appropriate checklist.

11₂

NOTE

New notification forms shall be completed for all updates.

- 16. If the classification is unchanged but a significant change in plant conditions has occurred, Then start a new Alert Checklist, prepare notification forms and make the appropriate notifications as soon as possible. ____/____
- 17. If a State/Local notification has not been completed in the last 60 minutes, Then provide a routine update. Start a new notification form and make the appropriate notifications. ____/____



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5.0 INSTRUCTIONS (continued) TIME / INIT

5.4 Alert Checklist (continued) /R4

18. If the event can be terminated, Then complete the notification forms (State, NRC) and notify the following:

- State Warning Point ___/___
- Plant Management ___/___
- Security ___/___
- NDDO ___/___
- NRC ___/___

19. Alternate Notification Methods (recommended format): /R4

NOTE

Use of the commercial telephone as an alternate notification method requires callback verification from the State Warning Point. Use of ESATCOM or Local Government Radio as an alternate notification method should include a callback verification number if available (e.g., cellular phone).

A. Alternate 1 - Commercial phone

Call the State Warning Point using the phone number in the St. Lucie Plant Emergency Response Directory (ERD). Announce "This is St. Lucie Unit _____ Nuclear Plant with an emergency declaration. My callback number is _____."

Hang up the phone and standby for the callback. When the State Warning Point gives the go-ahead, provide the information from the State of Florida Notification Message Form. ___/___

13 Request callback to verify that State Warning Point has notified St. Lucie and Martin Counties and the Bureau of Radiation Control. ___/___

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PROCEDURE NO.: EPIP-02		
5.0 INSTRUCTIONS (continued)		<u>TIME / INIT</u>
5.4 Alert Checklist (continued)		
		/R4
19. Alternate Notification Methods (recommended format): (continued)		
B. Alternate 2 - ESATCOM		
Hold down the button on the handset and wait 3-5 seconds to hear a beep before you start talking. This must be done each time you talk.		
Announce "State Warning Point, this is St. Lucie Unit _____," then release the button in order to listen.		
When the State Warning Point acknowledges, announce "State Warning Point, this is St. Lucie Unit _____ (classification), repeat (classification)." When the State Warning Point gives go-ahead, provide the information from the State of Florida Notification Message Form.		
Announce "St. Lucie clear" at the end of the conversation.		_____/____
C. Alternate 3 - Local Government Radio (LGR) communication to St. Lucie and Martin County Emergency Operations Centers (EOCs) with relay to the State Warning Point.		
On channel 2, contact the county EOCs by depressing the transmit button and announcing "St. Lucie County EOC, this is St. Lucie Nuclear Unit _____. Over." When St. Lucie County replies, direct them to standby while you contact Martin County.		

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5.0 INSTRUCTIONS (continued)

TIME / INIT

5.4 Alert Checklist (continued)

/R4

19. Alternate Notification Methods (recommended format): (continued)

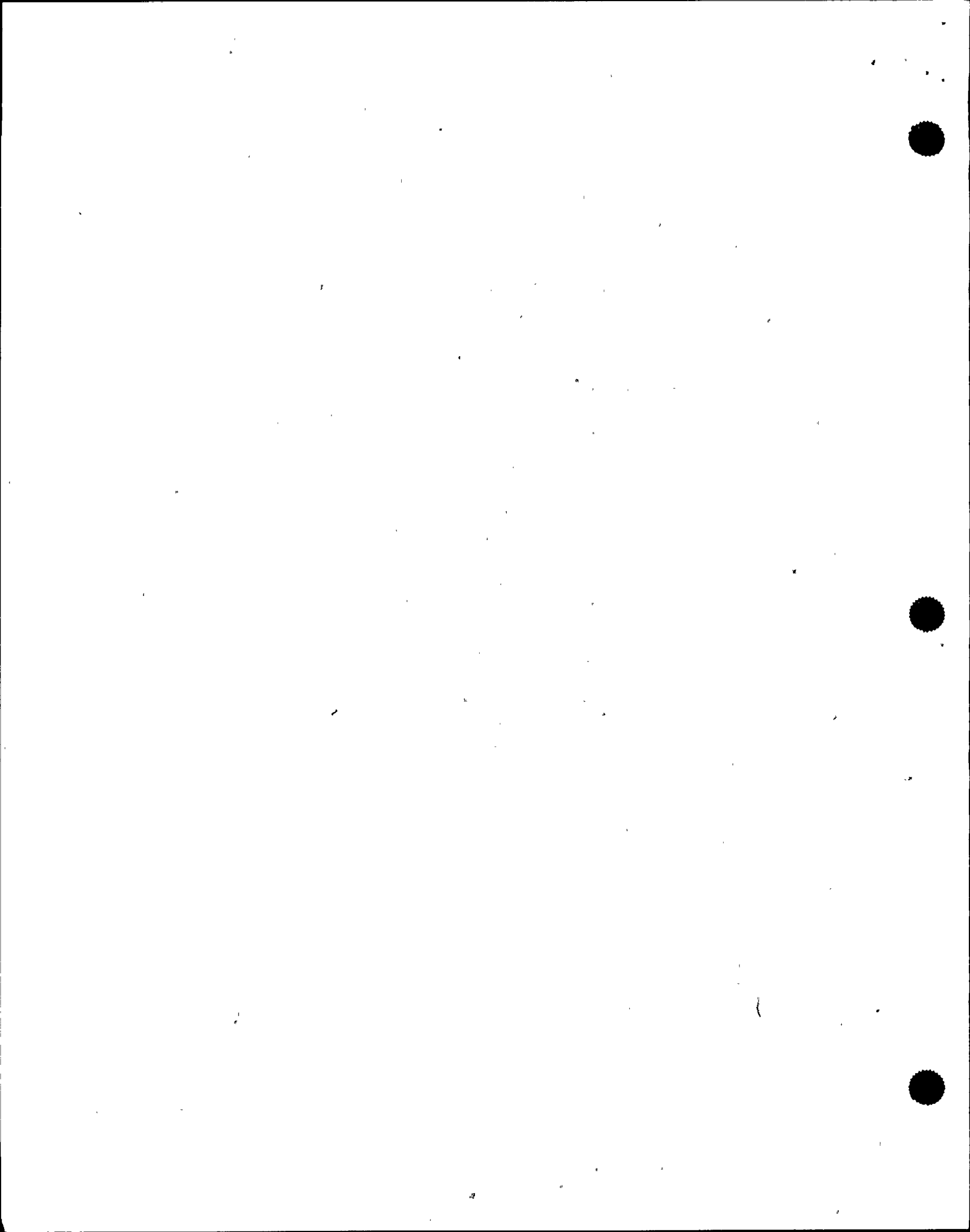
C. (continued)

When both counties are online, announce "Martin and St. Lucie County EOCs, this is St. Lucie Nuclear Unit ____ declaring a (classification), repeat (classification). I am standing by to transmit State of Florida Notification Message Form information when you are ready to copy. Over."

When the counties give the go-ahead, provide the information from the State of Florida Notification Message Form.

End the conversation by announcing "This is St. Lucie Unit ____, KNGR 874, over and out." _____/_____

END OF SECTION 5.4



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5.0 INSTRUCTIONS (continued)

TIME / INIT

5.5 Site Area or General Emergency Checklist

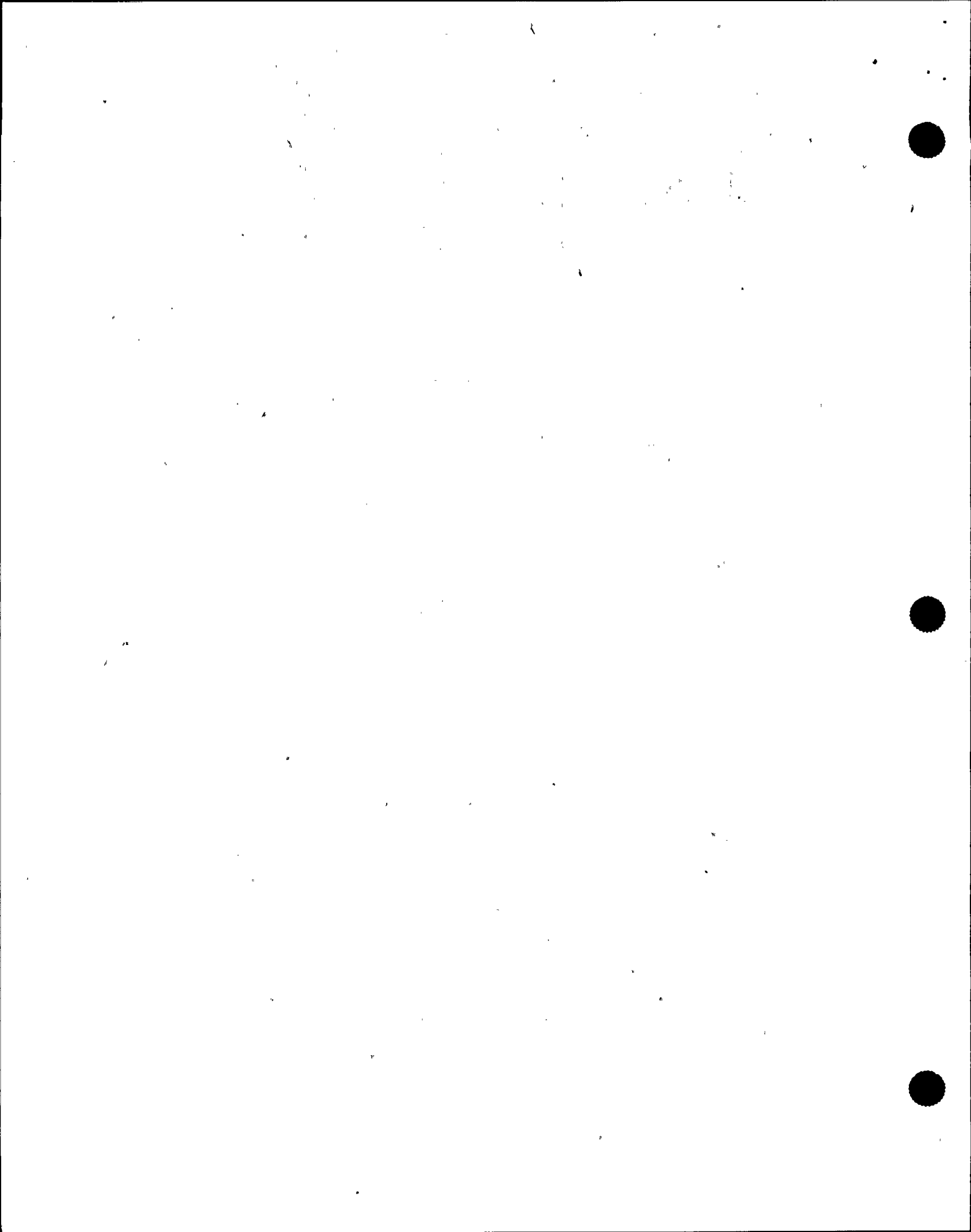
Date ___/___/___
Message # _____

- NOTE**
- For assistance with control of Non-licensed Operators (NLOs), refer to:
 - Attachment 10, Re-entry Guidelines
 - Attachment 11, Basis for Exposure Limits for Emergency Response Personnel
 - Complete a new notification form for each notification made during a Site Area Emergency or General Emergency.
 - The terms "release" and "notification" have specific definitions in Section 4.0 of this procedure.

- 1/6
1. If a radioactive release has occurred or is in progress, Then notify Chemistry to promptly perform off-site dose calculations per EPIP-09, Off-site Dose Calculations, and report results to the Emergency Coordinator. If Chemistry is unavailable, Then have the DCS call out a TSC Dose Assessor. _____/_____
 2. If a radioactive release has occurred or is in progress, Then identify wind direction. _____/_____

- NOTE**
- When the EOF is declared operational AND the Recovery Manager has assumed responsibility, Then notifications and PARs will be performed from the EOF.

- 1/2
3. If a release is in progress, Then review personnel access with Health Physics personnel and notify Security personnel with any special instructions (N/A for updates). _____/_____
 4. If the site is NOT evacuated, Then sound the Site Evacuation Alarm. _____/_____



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5.0 INSTRUCTIONS (continued)

TIME / INIT

5.5 Site Area or General Emergency Checklist (continued)

/R4

NOTE

To provide a clear announcement, the following step should be read and the content of the announcement determined prior to starting the announcement.

5. Make the necessary plant announcement using Gai-tronics and boost function:

A. Announce the following (N/A for updates):

"Attention all plant personnel, Unit (1)/(2) has declared a (SITE AREA EMERGENCY)/
(GENERAL EMERGENCY)."

____/____

B. If the Technical Support Center, Operational Support Center and Emergency Operations Facility are **NOT** activated, Then announce the following:

"All emergency response organization personnel report at once to your assigned emergency response facility."

____/____

NOTE

An alternate off-site Assembly Area at the Jensen Beach parking area is available if the wind direction is from 146° to 270°.

C. If the site is **NOT** evacuated and there is **NOT** or has **NOT** been a radiological release, Then announce the following:

"All non-emergency response organization personnel are to commence evacuation of the Owner Controlled Area, report to your vehicle and proceed to your homes."

OR

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5.0 INSTRUCTIONS (continued)

TIME / INIT

5.5 Site Area or General Emergency Checklist (continued)

/R4

5. (continued)

C. (continued)

If the site is NOT evacuated and there is or has been radiological release, Then announce the following:

"All non-emergency response organization personnel are to commence evacuation of the Owner Controlled Area. Persons leaving the site are to proceed (North)/(South) away from the plant to (Jaycee Park)/(Jensen Beach Parking Area) for contamination check, accountability and further instructions."

6. REPEAT steps 4 and 5 above. _____/_____

7. If the site is NOT evacuated, Then order Security to ensure evacuation of the Owner Controlled Area and to report personnel accountability as soon as possible. _____/_____

8. If the TSC and OSC are NOT activated, Then notify the DCS to initiate staff augmentation in accordance with EPIP-03, Emergency Response Organization Notification/Staff Augmentation (N/A for updates). _____/_____

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5.0 INSTRUCTIONS (continued)

TIME / INIT

5.5 Site Area or General Emergency Checklist (continued)

/R4

CAUTION

PARs are always required for General Emergencies and may be required for lesser emergencies.

NOTE

Attachment 3, Directions for Completing the State of Florida Notification Message Form for Nuclear Power Plants, may be helpful in performing the following step. The DCS may perform this step.

9. Prepare the State of Florida Notification Message Form (Attachment 2). _____/_____

A. Include PARs.

B. If the site has been evacuated since the last notification, Then include the evacuation route and offsite Assembly Area location (if utilized) in the incident description.

NOTE

If Emergency Class escalation is known to be necessary, Then terminate the notification after line 5 of the State of Florida Notification Message Form.

OR

Begin transmitting the information from the new notification form describing the conditions associated with the upgraded emergency class.

10. Notify State Warning Point (SWP) within 15 minutes of declaration of the emergency. This may be accomplished by the DCS. _____/_____

A. Using the State HOT RING DOWN (HRD) Phone, dial 100.

REVISION NO.: <p style="text-align: center;">4</p>	PROCEDURE TITLE: <p style="text-align: center;">DUTIES AND RESPONSIBILITIES OF THE EMERGENCY COORDINATOR</p> <p style="text-align: center;">ST. LUCIE PLANT</p>	PAGE: <p style="text-align: center;">34 of 65</p>
PROCEDURE NO.: <p style="text-align: center;">EPIP-02</p>		
5.0 INSTRUCTIONS (continued)		<u>TIME / INIT</u>
5.5 Site Area or General Emergency Checklist (continued)		
10. (continued)		/R4
B. When the State answers, provide the information from the State of Florida Notification Message Form.		
C. <u>If</u> the HRD is inoperable, <u>Then</u> go to the Alternate Notification Methods at the end of this checklist.		
11. Verify notification of Plant Management, Security and NDDO. This may be accomplished by the DCS.	____/____	
12. Prepare the NRC Event Notification Worksheet.	____/____	
13. Notify the NRC via the Emergency Notification System (ENS) phone immediately after notification of the State and counties. This shall be accomplished within one hour. This may be accomplished by the DCS.	____/____	
14. Initiate the Operations Department Accountability Aid for both Unit 1 and Unit 2 and provide this list to the TSC when requested (N/A for updates).	____/____	
15. Verify with Security that the evacuation of the Owner Controlled Area has been completed and all personnel have been accounted for (N/A for updates).	____/____	
16. Complete notification forms and make notification to State Warning Point and NRC when the evacuation is complete (N/A for updates).	____/____	
17. Ensure Operations field personnel have returned to the Control Room or OSC to obtain emergency Electronic Personal Dosimetry (EPD).	____/____ /R4	

REVISION NO.: 4	PROCEDURE TITLE: DUTIES AND RESPONSIBILITIES OF THE EMERGENCY COORDINATOR	PAGE: 35 of 65
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5.0 INSTRUCTIONS (continued)

TIME / INIT

5.5 Site Area or General Emergency Checklist (continued)

/R4

18

18. Direct that all Non-licensed Operators (NLOs), from both Units, report to the OSC (when operational) following evacuation of the Owner Controlled Area (N/A for updates).

____/____

19. Reassess corrective and protective actions. Verify assigned activities are under way and proper progress is being made. Reassign personnel and emergency teams as necessary.

20. Continue to assess conditions and review any changes against the Emergency Action Levels (EALs) in EPIP-01, Classification of Emergencies.

21. Upgrade to a General Emergency, as necessary. Start new checklist upon upgrading.

22. If the classification is unchanged but a significant change in plant conditions has occurred AND the EOF is NOT operational, Then start a new Site Area or General Emergency Checklist, prepare notification forms and make the appropriate notifications as soon as possible.

____/____

CAUTION

Only the Recovery Manager (RM) can authorize the downgrading of emergency classifications from Site Area or General Emergency.

NOTE

If the EOF is not operational at this time, contact Recovery Manager for information concerning turnover of notification and PAR responsibilities.

23. If the event can be downgraded or terminated, Then discuss with Recovery Manager.

____/____

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5.0 INSTRUCTIONS (continued) TIME / INIT

5.5 Site Area or General Emergency Checklist (continued)

/R4

1₂

NOTE
New notification forms shall be completed for all updates.

24. If an off-site notification has not been completed in the last 60 minutes AND the EOF is NOT operational, Then provide a routine update. Start a new notification form and make the appropriate notifications.

____/____

25. Alternate Notification Methods (recommended format):

/R4

NOTE
Use of the commercial telephone as an alternate notification method requires callback verification from the State Warning Point. Use of ESATCOM or Local Government Radio as an alternate notification method should include a callback verification number if available (e.g., cellular phone).

A. Alternate 1 - Commercial phone

Call the State Warning Point using the phone number in the St. Lucie Plant Emergency Response Directory (ERD). Announce "This is St. Lucie Unit _____ Nuclear Plant with an emergency declaration. My callback number is _____."

Hang up the phone and standby for the callback. When the State Warning Point gives the go-ahead, provide the information from the State of Florida Notification Message Form.

____/____

1₃

Request callback to verify that State Warning Point has notified St. Lucie and Martin Counties and the Bureau of Radiation Control.

____/____



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PROCEDURE NO.: EPIP-02		
5.0 INSTRUCTIONS (continued)		<u>TIME / INIT</u>
5.5 Site Area or General Emergency Checklist (continued)		
		/R4
25. Alternate Notification Methods (recommended format): (continued)		
B. Alternate 2 - ESATCOM		
<p>Hold down the button on the handset and wait 3-5 seconds to hear a beep before you start talking. This must be done each time you talk.</p>		
<p>Announce "State Warning Point, this is St. Lucie Unit _____," then release the button in order to listen.</p>		
<p>When the State Warning Point acknowledges, announce "State Warning Point, this is St. Lucie Unit _____</p>		
<p><u>(classification)</u>, repeat <u>(classification)</u>."</p>		
<p>When the State Warning Point gives go-ahead, provide the information from the State of Florida Notification Message Form.</p>		
<p>Announce "St. Lucie clear" at the end of the conversation.</p>		____/____
C. Alternate 3 - Local Government Radio (LGR) communication to St. Lucie and Martin County Emergency Operations Centers (EOCs) with relay to the State Warning Point.		
<p>On channel 2, contact the county EOCs by depressing the transmit button and announcing "St. Lucie County EOC, this is St. Lucie Nuclear Unit _____. Over." When St. Lucie County replies, direct them to standby while you contact Martin County.</p>		

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5.0 INSTRUCTIONS (continued)

TIME / INIT

5.5 Site Area or General Emergency Checklist (continued)

/R4

25. Alternate Notification Methods (recommended format): (continued)

C. (continued)

When both counties are online, announce "Martin and St. Lucie County EOCs, this is St. Lucie Nuclear Unit ____ declaring a (classification), repeat (classification). I am standing by to transmit State of Florida Notification Message Form information when you are ready to copy. Over."

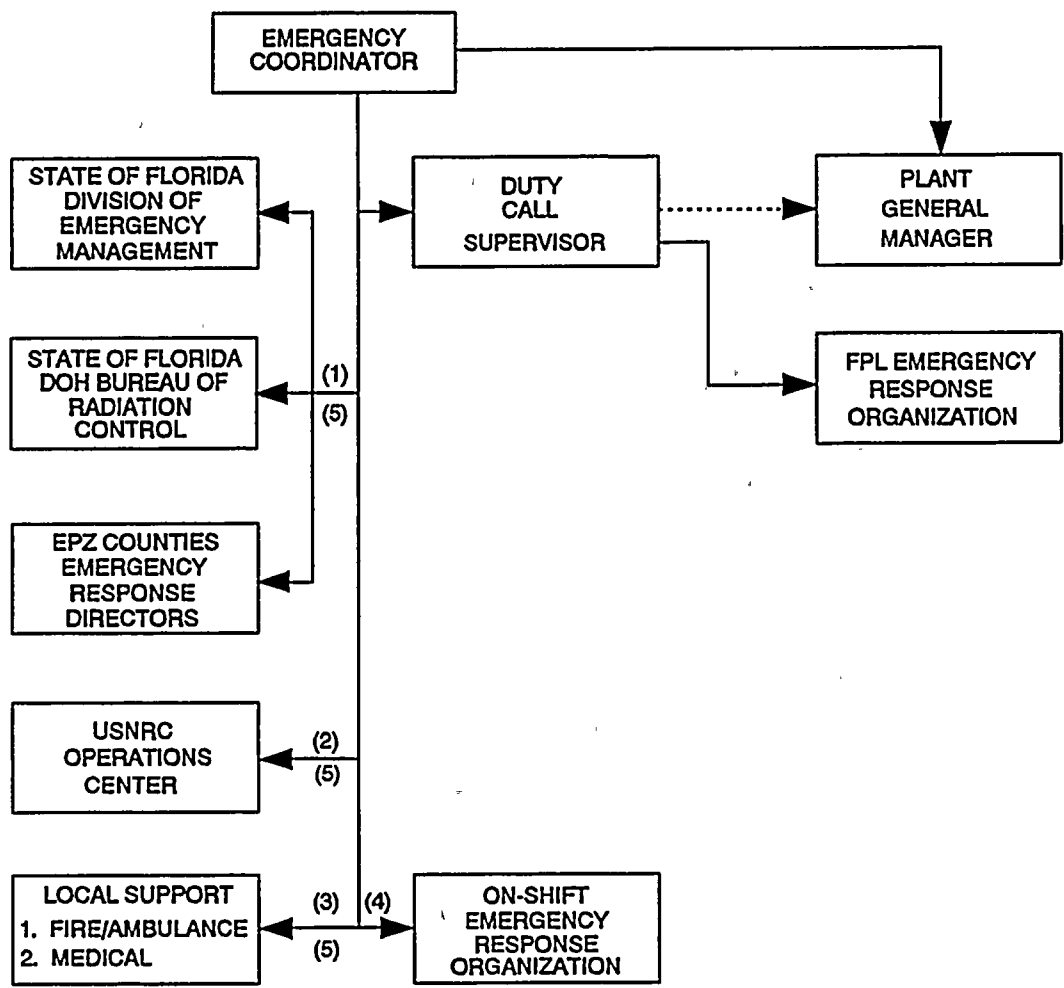
When the counties give the go-ahead, provide the information from the State of Florida Notification Message Form.

End the conversation by announcing "This is St. Lucie Unit ____, KNGR 874, over and out."

____/____

END OF SECTION 5.5

**ATTACHMENT 1
INITIAL NOTIFICATION FLOW**
(Page 1 of 1)



Legend:
 _____ Primary Notification Pathway
 Alternate Notification Pathway

- (1) Via State Hot Ring Down Telephone (HRD)
- (2) Via Emergency Notification System (ENS)
- (3) Medical & Fire Emergencies Only, As Needed
- (4) Via Plant Public Address System (PA)
- (5) May be performed by the Duty Call Supervisor.

(EPIP-02A.WPG)

REVISION NO.: 4	PROCEDURE TITLE: DUTIES AND RESPONSIBILITIES OF THE EMERGENCY COORDINATOR	PAGE: 40 of 65
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**ATTACHMENT 2
STATE OF FLORIDA NOTIFICATION MESSAGE FORM
FOR NUCLEAR POWER PLANTS**

(Page 1 of 1)

THIS IS A DRILL THIS IS AN ACTUAL EMERGENCY

1. A. Time/Date: (Initiated) _____ B. Reported by: (Name/Title) _____
 C. Message Number: _____ D. From: Control Room TSC EOF
2. SITE: ST. LUCIE UNIT 1 ST. LUCIE UNIT 2

3. ACCIDENT CLASSIFICATION

<input type="checkbox"/> Notification of Unusual Event	<input type="checkbox"/> Site Area Emergency
<input type="checkbox"/> Alert	<input type="checkbox"/> General Emergency

4. CURRENT EMERGENCY DECLARATION Time: _____ Date: ____/____/____
 5. INCIDENT DESCRIPTION OR UPDATE* _____

6. INJURIES A. Contaminated _____ B. Non-contaminated _____

7. RELEASE STATUS:

A. <input type="checkbox"/> No release (Go to Item 11)	C. <input type="checkbox"/> A Release is occurring--expected duration _____
B. <input type="checkbox"/> Potential (Possible) Release	D. <input type="checkbox"/> A Release occurred, but stopped--duration _____

- 8.** RELEASE RATE (calculated as per EPIP-09)
- A. NOBLE GASES: _____ Curies per second Measured Default
 B. IODINES: _____ Curies per second Measured Default
 C. Release within normal operating limits

- 9.** TYPE OF RELEASE IS (Blanks are for specific nuclides, if available, i.e, I-131, Cs-137, etc.)
- A. Radioactive gases _____ C. Radioactive liquids _____
 B. Radioactive airborne particulates _____ D. Other _____

10.** PROJECTED OFFSITE DOSE RATE (calculated as per EPIP-09)

DISTANCE	THYROID DOSE RATE (CDE)	TOTAL DOSE RATE (TEDE)
1 Mile (Site boundary) _____	mrem/hr _____	mrem/hr _____
2 Miles _____	mrem/hr _____	mrem/hr _____
5 Miles _____	mrem/hr _____	mrem/hr _____
10 Miles _____	mrem/hr _____	mrem/hr _____

11. METEOROLOGICAL DATA (at 10 meters)
- A. Wind direction (from) _____ degrees C. Wind speed _____ mph
 B. Sectors affected _____ D. Stability class _____
 (from Attachment 4) (from Attachment 4)

12. UTILITY RECOMMENDED PROTECTIVE ACTIONS (from EPIP-02)

A. No recommendations at this time.
 B. Notify the public to take the following protective actions:

MILES	NO ACTION	SHELTER/SECTORS	EVACUATE/SECTORS
0-2	_____	_____	_____
2-5	_____	_____	_____
5-10	_____	_____	_____

NOTE
If messages refer to 360° radius,
use the word ALL under sectors.

13. HAS EVENT BEEN TERMINATED? A. NO B. YES Time: _____ Date: ____/____/____

- EC Approval: _____ Time: _____ Date: ____/____/____
 14. MESSAGE RECEIVED BY Name: _____ Time: _____ Date: ____/____/____

15. Return to applicable checklist (UE, ALERT, SITE AREA/GENERAL) and start from last completed step.

* If Emergency Class escalation is known to be necessary, Then add, "A new notification form will be transmitted within 15 minutes; go to Line 14."
 ** This information may not be available on initial notifications.

END OF ATTACHMENT 2

REVISION NO.: 4	PROCEDURE TITLE: DUTIES AND RESPONSIBILITIES OF THE EMERGENCY COORDINATOR	PAGE: 41 of 65
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ATTACHMENT 3
DIRECTIONS FOR COMPLETING THE STATE OF FLORIDA
NOTIFICATION MESSAGE FORM FOR NUCLEAR POWER PLANTS

(Page 1 of 4)

Starting at the top of the form, check either "THIS IS A DRILL" or "THIS IS AN ACTUAL EMERGENCY."

- | <u>ITEM</u> | <u>ENTRY</u> |
|-------------|--|
| 1A | <u>Time/Date</u> - Enter the time and date <u>when the transmission of data begins.</u> |
| 1B | <u>Reported by</u> - Enter the name and title of the person transmitting the information. |
| 1C | <u>Message Number</u> - Enter the sequential number of the notification being made. The facility from which the notifications are being made may change as the event progresses; however, the number will remain sequential throughout the event. |
| 1D | <u>From</u> - Check the facility from which the notification is being made. |
| 2 | <u>SITE</u> - Check the unit that is making the emergency declaration. If both units are affected, check both blocks. |
| 3 | <u>ACCIDENT CLASSIFICATION</u> - Check the <u>current</u> emergency classification declared. |
| 4 | <u>CURRENT EMERGENCY DECLARATION</u> - Enter the time and date when the current emergency classification was declared. |
| 5 | <u>INCIDENT DESCRIPTION OR UPDATE</u> - Enter a brief description of the initiating conditions for the emergency classification declared and any other current information regarding significant events which have occurred since the last notification was made. The information provided should be descriptive enough for the offsite agencies to understand which Emergency Action Level (EAL) has necessitated the emergency declaration. If practical, use the wording directly from the EAL. Wording should be non-technical, avoiding specific details such as electrical bus numbers, etc. The use of abbreviations and acronyms should be avoided. If possible, indicate if plant conditions are currently improving, stable, or degrading. |

REVISION NO.: 4	PROCEDURE TITLE: DUTIES AND RESPONSIBILITIES OF THE EMERGENCY COORDINATOR	PAGE: 42 of 65
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ATTACHMENT 3
DIRECTIONS FOR COMPLETING THE STATE OF FLORIDA
NOTIFICATION MESSAGE FORM FOR NUCLEAR POWER PLANTS
 (Page 2 of 4)

ITEM ENTRY

- 6 INJURIES - If there are no injuries, enter "none" in the blanks for 6A and 6B. If there are injuries, check the appropriate block and enter the number of contaminated people in the blank beside 6A, and number of non-contaminated people in the blank beside 6B.
- 7 RELEASE STATUS - A release (during any declared emergency) is defined as:
- a. Any effluent monitor increase of (approximately) 10 times or one decade above pre-transient values, OR
 - b. Health Physics detecting airborne radioactivity levels in excess of 25% derived air concentration (DAC) outside of plant buildings due to failure of equipment associated with the declared emergency.
- 7A No Release (Go to Item 11) - Check if no release is occurring, then continue at Item 11.
- 7B Potential (Possible) Release - A potential release refers to a condition where a release is probable. This is not meant as a catch-all category. Check this block if a release is probable, then continue at Item 11.
- 7C A release is occurring - expected duration - If a release is occurring, enter the expected duration of the release, in hours and minutes. If you cannot predict the duration of the release, then enter "Unknown" in the blank.
- 7D A release occurred, but stopped - duration - If a release has occurred, enter approximately how long the release lasted, in hours and minutes.

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ATTACHMENT 3
DIRECTIONS FOR COMPLETING THE STATE OF FLORIDA
NOTIFICATION MESSAGE FORM FOR NUCLEAR POWER PLANTS
 (Page 3 of 4)

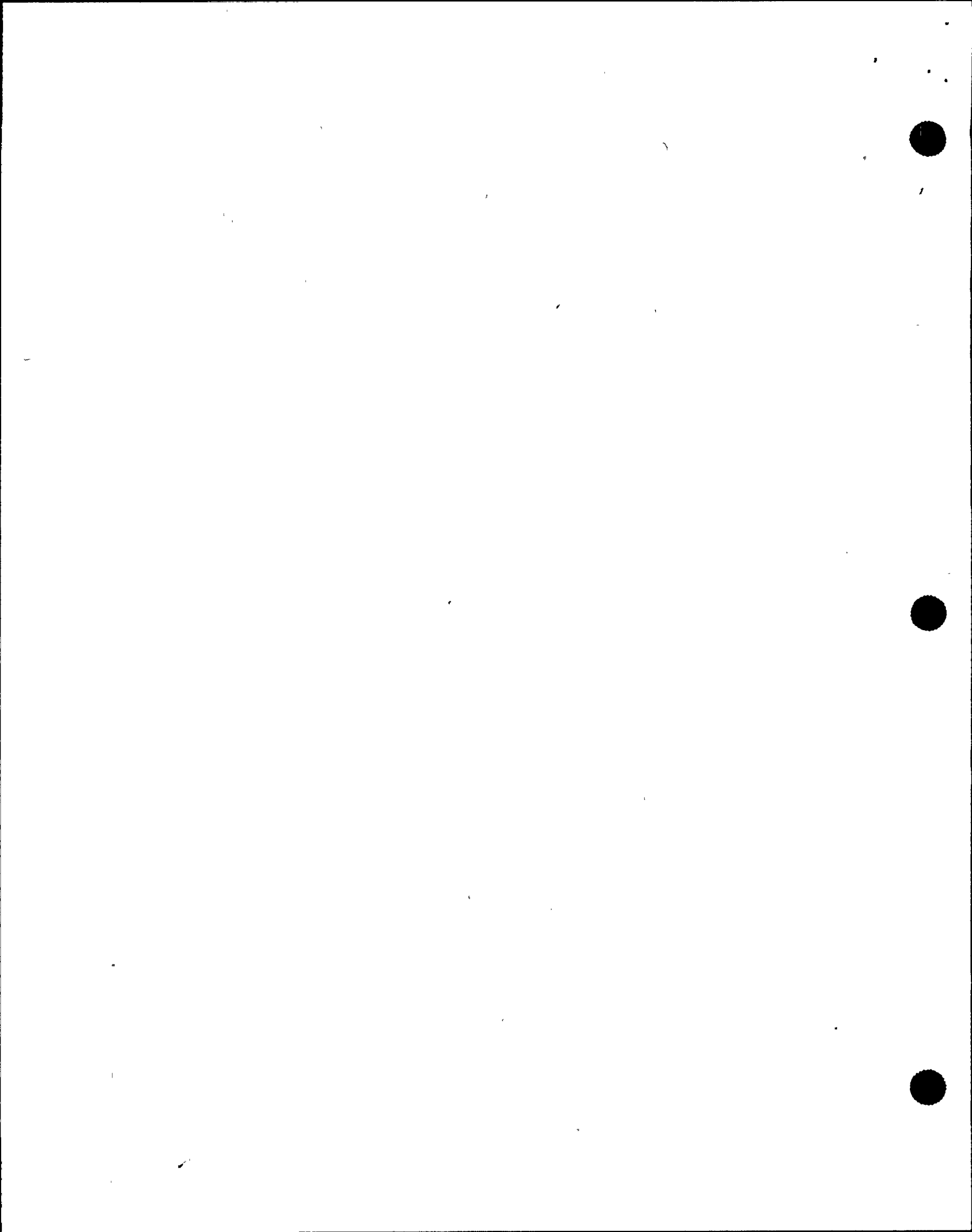
ITEM ENTRY

NOTE

Items 8, 9 and 10 may be omitted from the initial notification IF the information is not available within the 15 minute initial notification time frame. If a release has occurred, this information must be included on the next message.

- 8 RELEASE RATE - This section requires the completed results of dose assessment.
- 8A NOBLE GASES - Check this block for a noble gas release. Write the release rate (in curies per second) in the space. Check either "Measured" or "Default" to indicate how the release rate was determined.
- 8B IODINES - Check this block for an iodine release. Write the release rate (in curies per second) in the space. Check either "Measured" or "Default" to indicate how the release rate was determined.
- 8C Release within normal operating limits - Check this block if the release is below Tech Spec limits.
- 9 TYPE OF RELEASE IS - Check the type of release. If known, enter the specific nuclide(s) being released.
- 10 PROJECTED OFFSITE DOSE RATE - This section requires the completed results of dose assessment.

Enter the projected THYROID DOSE RATE (CDE) and the TOTAL DOSE RATE (TEDE) in mrem/hr for the site boundary, 2, 5 and 10 mile distances.
- 11 METEOROLOGICAL DATA - This information is to be included on all notifications.



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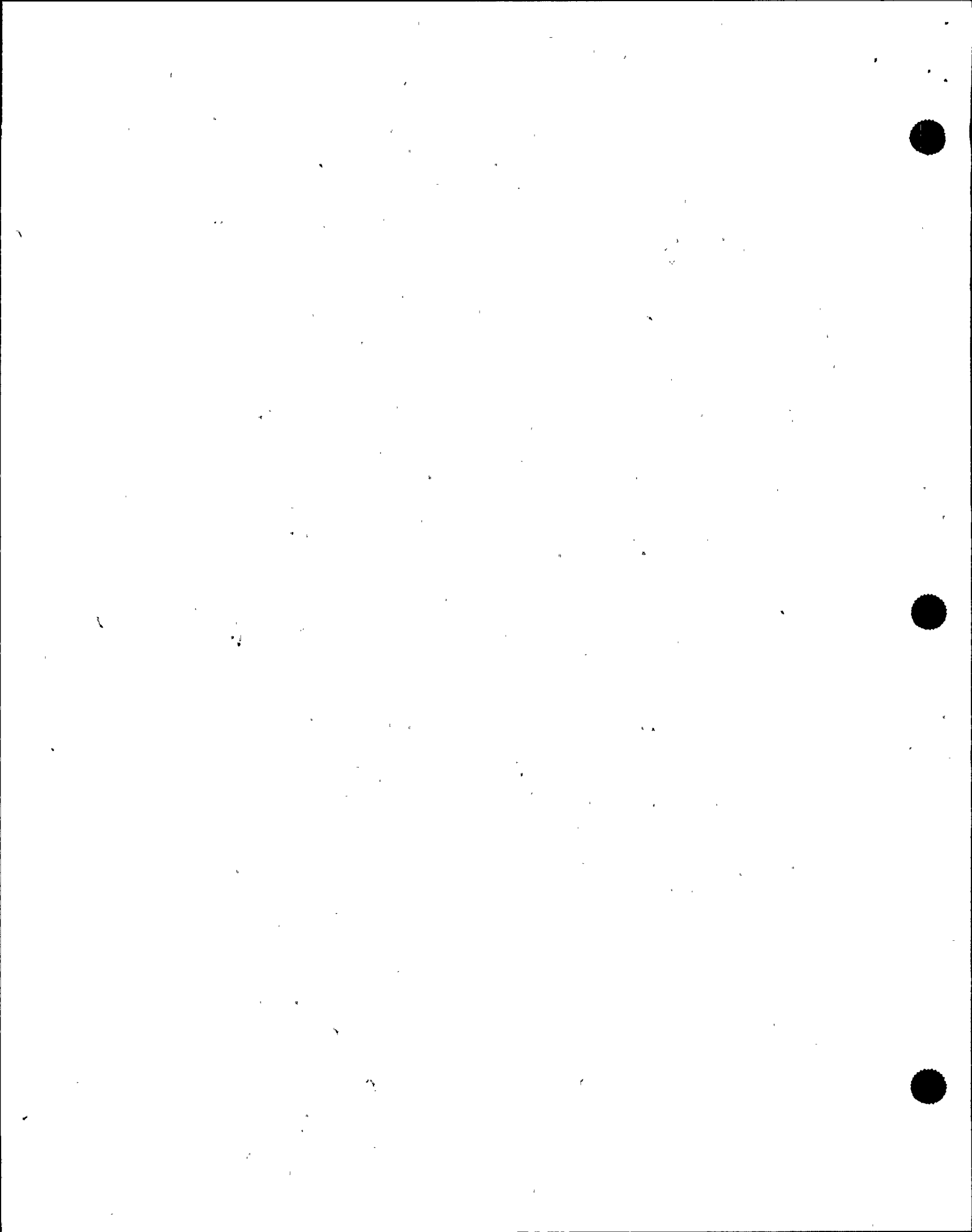
15

ATTACHMENT 3
DIRECTIONS FOR COMPLETING THE STATE OF FLORIDA
NOTIFICATION MESSAGE FORM FOR NUCLEAR POWER PLANTS
 (Page 4 of 4)

- | <u>ITEM</u> | <u>ENTRY</u> |
|-------------|--|
| 11A | <u>Wind direction (from) _____ degrees</u> - Enter the wind direction as read from ERDADS (or the Met Tower Indicator Panel on Unit 1). |
| 11B | <u>Sectors affected _____</u> - Enter the letters of the sectors affected, as determined from Attachment 4, using the wind direction from 11A. |
| 11C | <u>Wind speed _____ MPH</u> - Enter the wind speed as read from ERDADS (or the Met Tower Indicator Panel on Unit 1). |
| 11D | <u>Stability class _____</u> - Enter the stability class as determined from Attachment 4. |
| 12 | <u>UTILITY RECOMMENDED PROTECTIVE ACTIONS</u> - This section requires the completed results of a PAR Worksheet. This information must be approved by the Emergency Coordinator or the Recovery Manager. |
| 13 | <u>HAS EVENT BEEN TERMINATED?</u> - If the event has not been terminated, check block A. If the event has been terminated, check block B and enter the time and date of termination.

<u>EC Approval</u> - Have the EC review and approve the content of the form and provide the time and date. EC approval is required prior to transmitting the form. |
| 14 | <u>MESSAGE RECEIVED BY</u> - The State Warning Point will provide the name of the person who received your message, and the current time and date. |

END OF ATTACHMENT 3



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ATTACHMENT 4
DETERMINATION OF SECTORS AFFECTED AND STABILITY CLASS
(Page 1 of 1)

A. Affected Sectors

- Using the guide below, determine the Affected Sectors and enter in line 11B of the State Notification form.

NOTE

If the wind direction is directly on the edge of two sectors (e.g., 11°, 33°, 56°, etc.), an additional sector should be added to the Protective Action Recommendation (PAR). For example, if the wind direction is from 78°, then the affected sectors for the PAR should be L, M, N and P.

Wind From	Affected Sectors	Wind From	Affected Sectors	Wind From	Affected Sectors
348 - 11	HJK	123 - 146	PQR	236 - 258	CDE
11 - 33	JKL	146 - 168	QRA	258 - 281	DEF
33 - 56	KLM	168 - 191	RAB	281 - 303	EFG
56 - 78	LMN	191 - 213	ABC	303 - 326	FGH
78 - 101	MNP	213 - 236	BCD	326 - 348	GHJ
101 - 123	NPQ	there is no	O sector	there is no	I sector

B. Stability Class

- Enter Delta-T (60 meter minus 10 meter temperatures) _____ deg. F
- Using Delta-T (ΔT) and the guide below, determine the Stability Class and enter in line 11D of the State Notification form.

ΔT	Stability Class
ΔT less than or equal to -1.7	A
-1.7 less than ΔT less than or equal to -1.5	B
-1.5 less than ΔT less than or equal to -1.4	C
-1.4 less than ΔT less than or equal to -0.5	D
-0.5 less than ΔT less than or equal to +1.4	E
+1.4 less than ΔT less than or equal to +3.6	F
+3.6 less than ΔT	G

END OF ATTACHMENT 4

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ATTACHMENT 5
DETERMINATION OF PROTECTIVE ACTION RECOMMENDATIONS (PARs)
(Page 1 of 6)

- A. Guidelines for Protective Action Recommendation (PARs) to Off-site Authorities
1. FPL is required to provide county and state governmental authorities with recommendations for protective action to be taken by the public during radiological emergencies at the St. Lucie Nuclear Power Plant.
 2. The responsible authorities are the State of Florida Division of Emergency Management (DEM) and St. Lucie and Martin County Departments of Public Safety.
 3. PARs should be made utilizing all of the available data. This includes plant conditions, off-site dose projections and/or field monitoring data. The more conservative PARs should be made.
 4. Due to the large political and legal ramifications of these recommendations and the potential impact on FPL, the following format and content should be used:
 - a. If any case where a GENERAL EMERGENCY has been declared, the minimum PAR shall be: Shelter all people within a 2 mile radius and out to 5 miles in the affected sectors. (Affected sectors are the downwind sector plus the two adjacent sectors, three in total.)
 - b. If a GENERAL EMERGENCY has been declared due to loss of physical control of the plant to intruders, including the Control Room or any other area(s) vital to the operation of the reactor system (as defined in the Security Plan), the minimum PAR shall be: Evacuate all people within a 2 mile radius from the plant and out to 5 miles in the downwind sectors. Shelter all people in the remaining sectors from 2 to 5 miles and from 5 to 10 miles from the plant.
 - c. If the emergency has not been classified as a GENERAL EMERGENCY and the offsite doses are LESS THAN 500 mrem Total Dose (TEDE) and 1000 mrem Thyroid Dose (CDE) at 1 mile over the projected duration of the release, no protective action is recommended. This should be reported to DEM and other outside agencies who inquire as:

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ATTACHMENT 5
DETERMINATION OF PROTECTIVE ACTION RECOMMENDATIONS (PARs)

(Page 2 of 6)

A. (continued)

4. (continued)

c. (continued)

Based on our current assessment of all the information now available to us, Florida Power & Light Company recommends that you consider taking the following protective actions (PA) - NONE. This recommendation may change in the future, but we cannot now say when it may change or what it may change to.

B. Determining Protective Action Recommendations (PARs)

NOTE

If a controlled release is necessary to stabilize plant conditions or an uncontrolled release is anticipated, determine the approximate source term and duration of the release and the projected off-site doses prior to making any PARs.

1. In determining PARs, both plant conditions AND off-site doses must be considered. However, if a release has not occurred, then determine PARs based on plant conditions.
2. PARs Based on Plant Conditions
 - a. Refer to Attachment 6, Protective Action Recommendations.
 - b. Begin with the General Emergency question and proceed through the flowchart answering the questions at each prompt.
 - c. Upon completion of the flowchart, enter the PAR table and determine the PAR for each downwind distance.
 - d. Enter PARs into Line 1 of the table in Section C below.

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ATTACHMENT 5
DETERMINATION OF PROTECTIVE ACTION RECOMMENDATIONS (PARs)
(Page 3 of 6)

B. (continued)

3. PARs Based on Off-site Dose Projections

NOTE

For purposes of this procedure and when discussing dose calculations, the terms projected and forecasted can be, and are used, interchangeably.

- a. Refer to Attachment 6, Protective Action Recommendations.
- b. PARs are based on the Thyroid Dose (line 7) and/or the Total Dose (line 18) from the Dose Calculation Worksheet in EPIP-09, Off-Site Dose Calculations. This same information is available, when using the Class A Model dose program, on the 10 Mile Standard Report in the Forecast Mode.
- c. For each downwind distance, enter the PAR table at the appropriate dose level and determine the PAR for that distance.
- d. Enter PARs into Lines 2a and 2b of the table in Section C below.

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ATTACHMENT 5
DETERMINATION OF PROTECTIVE ACTION RECOMMENDATIONS (PARs)
(Page 4 of 6)

B. (continued)

EXAMPLE

A release has occurred at the St. Lucie Plant. The wind direction is from 22 degrees and the projected off-site integrated (2 hr) Thyroid Dose (CDE) is 10,000 mrem at 1 mile, 2000 mrem at 2 miles and less than 1000 mrem at 5 miles. The plant is in a GENERAL EMERGENCY with no actual or projected core damage and no loss of physical control of the plant. The following PAR should be made:

Based on our current assessment of all the information now available to us, Florida Power & Light Company recommends that you consider taking the following protective actions:

- i. Evacuate all people between a 0 and 2 mile radius from the plant.*
- ii. Shelter all people between a 2 and 5 mile radius from the plant who are in sectors J, K and L.*
- iii. No protective action is recommended between a 5 and 10 mile radius from the plant.*

This recommendation may change in the future, but we cannot now say when it may change or what it may change to.

112 4. PARs Based on Field Monitoring Data

- a. Refer to Attachment 6, Protective Action Recommendations.
- b. PARs are based on Thyroid Dose Rate and/or the Total Dose Rate measured in the field. Field monitoring dose rates need to be multiplied times the expected duration of the release (default value is 2 hours) in order to determine projected doses.
 - 1. Thyroid Dose (CDE) = Field measured thyroid dose rate x expected duration of release.
 - 2. Total Dose Rate (TEDE) = Field measured Deep Dose Equivalent (DDE) + (0.04 x Thyroid Dose (CDE)).

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ATTACHMENT 5
DETERMINATION OF PROTECTIVE ACTION RECOMMENDATIONS (PARs)
(Page 5 of 6)

B. (continued)

4. (continued)

- c. Field monitoring results from near site sample locations need to be adjusted/extrapolated to the 1 mile distance. Sample results between 1 to 2 miles need to be adjusted/extrapolated to the 2 mile distance and results between 2 to 5 miles adjusted/extrapolated to the 5 mile distance.
- d. For each downwind distance, enter the PAR table at the appropriate dose level and determine the PAR for that distance.

CAUTION

Do NOT mix doses based on dose calculations with doses based on field measurements when determining PARs.

- 5. When available, both plume calculations and off-site monitoring results should be evaluated when making PARs. If significant discrepancies exist between field monitoring results and plume dispersion calculations, Then an evaluation of the discrepancy should be made, and the appropriate value should be selected in the determination of PARs.
- 6. PARs have been developed based on guidance in NUREG/BR-0150, Vol. 1 and EPA 400-R-92-001.

/R4

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ATTACHMENT 5
DETERMINATION OF PROTECTIVE ACTION RECOMMENDATIONS (PARs)
 (Page 6 of 6)

C. Protective Action Recommendations (PARs)

NOTE
 Actual PARs shall be the most conservative PARs based on plant conditions or off-site doses.

1. Complete the table below:

Step 1. Determine PARs based on Attachment 6, Protective Action Recommendations, and enter into line 1.

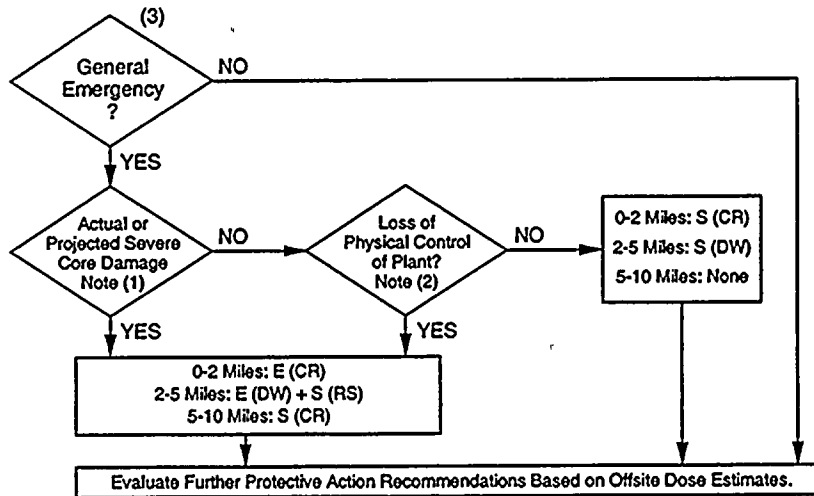
Step 2. Determine PARs based on Attachment 6, Protective Action Recommendations, and enter into lines 2a and 2b.

Protective Action Recommendations	Distance From Plant/Recommendation		
	0 - 2 Mile	2 - 5 Mile	5 - 10 Mile
Line 1. Plant Conditions			
Line 2a. Total Dose (TEDE)			
Line 2b. Thyroid Dose (CDE)			

2. Choose the most conservative PARs and record in Section 12 of the State of Florida Notification Message Form.

END OF ATTACHMENT 5

ATTACHMENT 6
PROTECTIVE ACTION RECOMMENDATIONS
(Page 1 of 1)



Determine PAR for each mile value using most conservative dose at that mile value. Note (3)

Total Dose (TEDE) in mrem	Thyroid Dose (CDE) in mrem
---------------------------	----------------------------

NOTES:

- (1) Severe core damage is indicated by either:
 - Loss of critical functions required for core protection (e.g., loss of injection with LOCA),
 - High core temperatures (CET > 700°F), or
 - CHRRM reading of > 4.2 E⁴ R/Hr.
- (2) Loss of physical control of Control Room or vital reactor operating areas to intruders.
- (3) See guidance for Determining PARs in Attachment 5 of EPIP-02.

	0-2 Miles Use 1 Mile Value	2-5 Miles Use 2 Mile Value	5-10 Miles Use 5 Mile Value	10 - TBD Use 10 Mile Value
<500 mrem	NONE	NONE	NONE	NONE
≥500 mrem BUT <1000 mrem	S (CR)	S (DW)	S (DW)	S (DW)
≥1000 mrem BUT <5000 mrem	E (CR)	E (DW) + S (RS)	E (DW) + S (RS)	E (DW) + S (RS)
≥5000 mrem	E (CR)	E (CR)	E (DW) + S (RS)	E (DW) + S (RS)

LEGEND OF SYMBOLS & ABBREVIATIONS:

<p>< = Less Than; ≥ = Greater Than or Equal To</p> <p>None - No Protective Action Recommended</p> <p>S - Sheltering Recommended</p> <p>E - Evacuation Recommended</p>	<p>DW - Downwind + 2 Adjoining Sectors</p> <p>RS - Remaining Sectors</p> <p>CR - Complete Circle Around Plant at Specified Distance</p>
--	---

(P/EPIPIP-02-Fig1-R0)

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ATTACHMENT 7
NRC EVENT NOTIFICATION WORKSHEET
(Page 1 of 2)

NDDO Contact's Name: _____

NRC Contact's Name: _____

EVENT NOTIFICATION WORKSHEET			
Notification Time	Facility or Organization	Unit	Caller's Name
	FPL - St. Lucie Plant		Callback #: ENS _____ or (561) _____
Event Time & Zone	Event Date	1 Hr. Non-Emergency 10 CFR 50.72(b)(1)	(v) Lost Offsite Comms
		(i)(A) TS Required S/D	(vi) Fire
Power/Mode Before	Power/Mode After	(i)(B) TS Deviation	(vi) Toxic Gas
		(ii) Degraded Condition	(vi) Rad Release
		(ii)(A) Unanalyzed Condition	4-hr. Non-Emergency 10 CFR 50.72(b)(2)
		(ii)(B) Outside Design Basis	
EVENT CLASSIFICATIONS		(ii)(C) Not Covered by OPs/EPs	(i) Degrade While S/D
General Emergency		(iii) Earthquake	(ii) RPS Actuation (scram)
Site Area Emergency		(iii) Flood	(ii) ESF Actuation
Alert		(iii) Hurricane	(iii)(A) Safe S/D Capability
Unusual Event		(iii) Ice/Hail	(iii)(B) RHR Capability
50.72 Non-Emergency		(iii) Lightning	(iii)(C) Control of Rad Release
Physical Security (73.71)		(iii) Tomado	(iii)(D) Accident Mitigation
Transportation		(iii) Other Natural Phenomenon	(iv)(A) Air Release > 2X App B
20.403 Material/Exposure		(iv) ECCS Discharge to RCS	(iv)(B) Liq Release > 2X App B
Other		(v) Lost ENS	(v) Offsite Medical
		(v) Lost Emerg. Assessment	(vi) Offsite Notification

DESCRIPTION

Include: Systems affected, actuations & their initiating signals, causes, effect of event on plant, actions taken or planned, etc.

Notifications NRC Resident	Yes	No	Will Be	Anything unusual or not understood?	Yes (Explain above)	No
State(s)				Did all systems function as required?	Yes	No (Explain above)
Local						
Other gov agencies				Mode of operation until corrected	Estimate for restart date:	Additional info on back?
Media press release						

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**ATTACHMENT 7
NRC EVENT NOTIFICATION WORKSHEET**
(Page 2 of 2)

ADDITIONAL INFORMATION

Radiological releases*: Check or fill in applicable items (specific details/explanations should be covered in event description)							/R4
Liquid release	Gaseous release	Unplanned release	Planned release	Ongoing	Terminated		
Monitored	Unmonitored	Offsite release	T.S. exceeded	RM alarms	Areas evacuated		
Personnel exposed or contaminated		Offsite protective actions recommended		* State release path in description.			

	Release Rate (Ci/sec)	% T.S. Limit	HOO Guide	Total Activity (Ci)	% T.S. Limit	HOO Guide
Noble Gas			0.1 Ci/sec			1000 Ci
Iodine			10 µCi/sec			0.01 Ci
Particulate			1 µCi/sec			1 mCi
Liquid (excluding tritium and dissolved noble gases)			10 µCi/min			0.1 Ci
Liquid (tritium)			0.2 Ci/min			5 Ci
Total Activity						

	Plant Stack	Condenser/Air Ejector	Main Steam Line	SG Blowdown	Other
RAD monitor readings:					
Alarm setpoints:					
% T.S. Limit (if applicable)					

RCS or SG tube leaks: Check or fill in applicable items: (specific details/explanations should be covered in event description)

Location of the leak (e.g., SG #, valve, pipe, etc.):

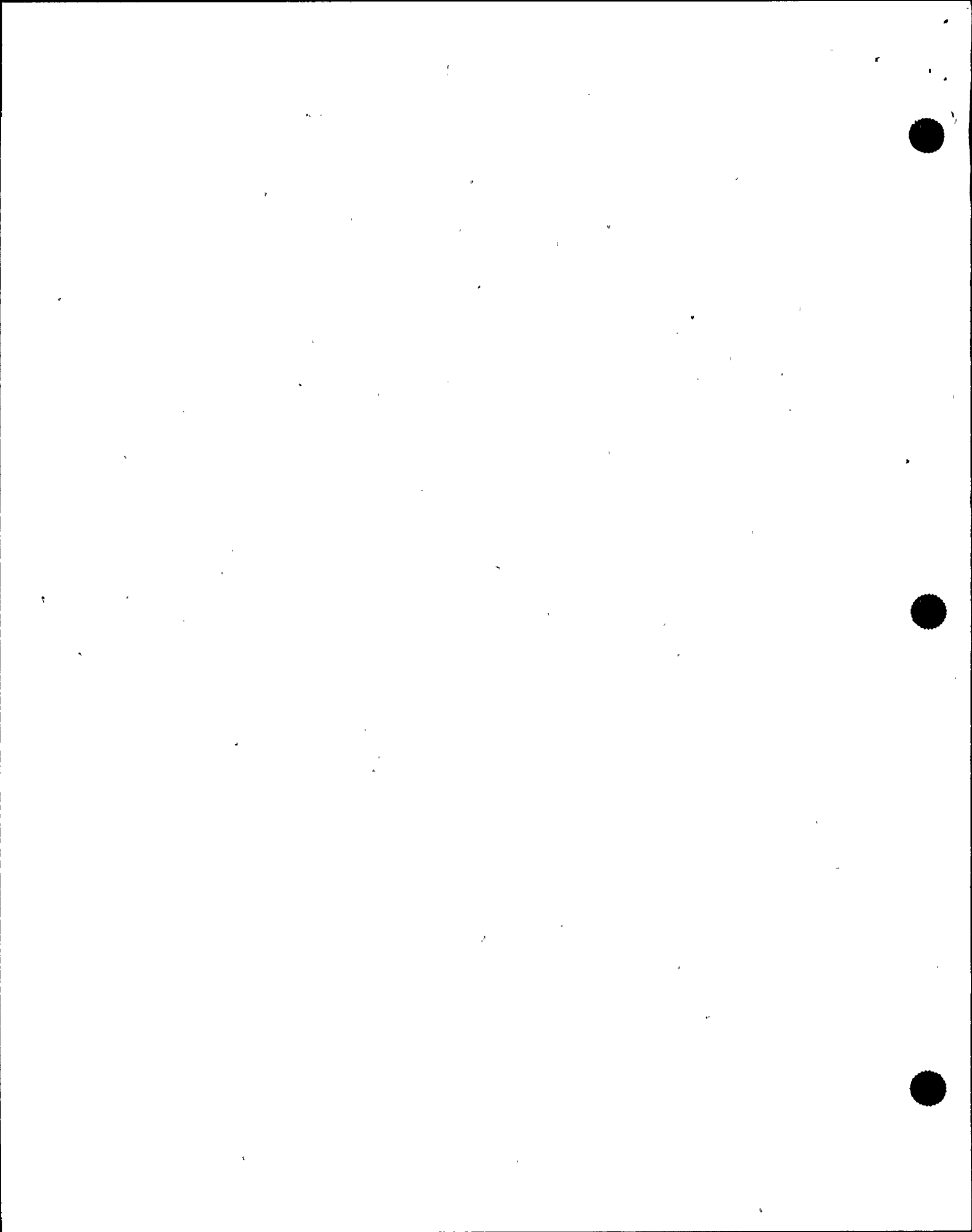
Leak Rate	Units: gpm/gpd	T.S. Limits:	Sudden or Long Term Development:
Leak Start Date:	Time:	Coolant Activity & Units: Primary -	Secondary -

List of Safety Related Equipment Not Operational:

EVENT DESCRIPTION (Continued from front)

E. C. Approval _____ Time: _____ Date: ____/____/____

END OF ATTACHMENT 7



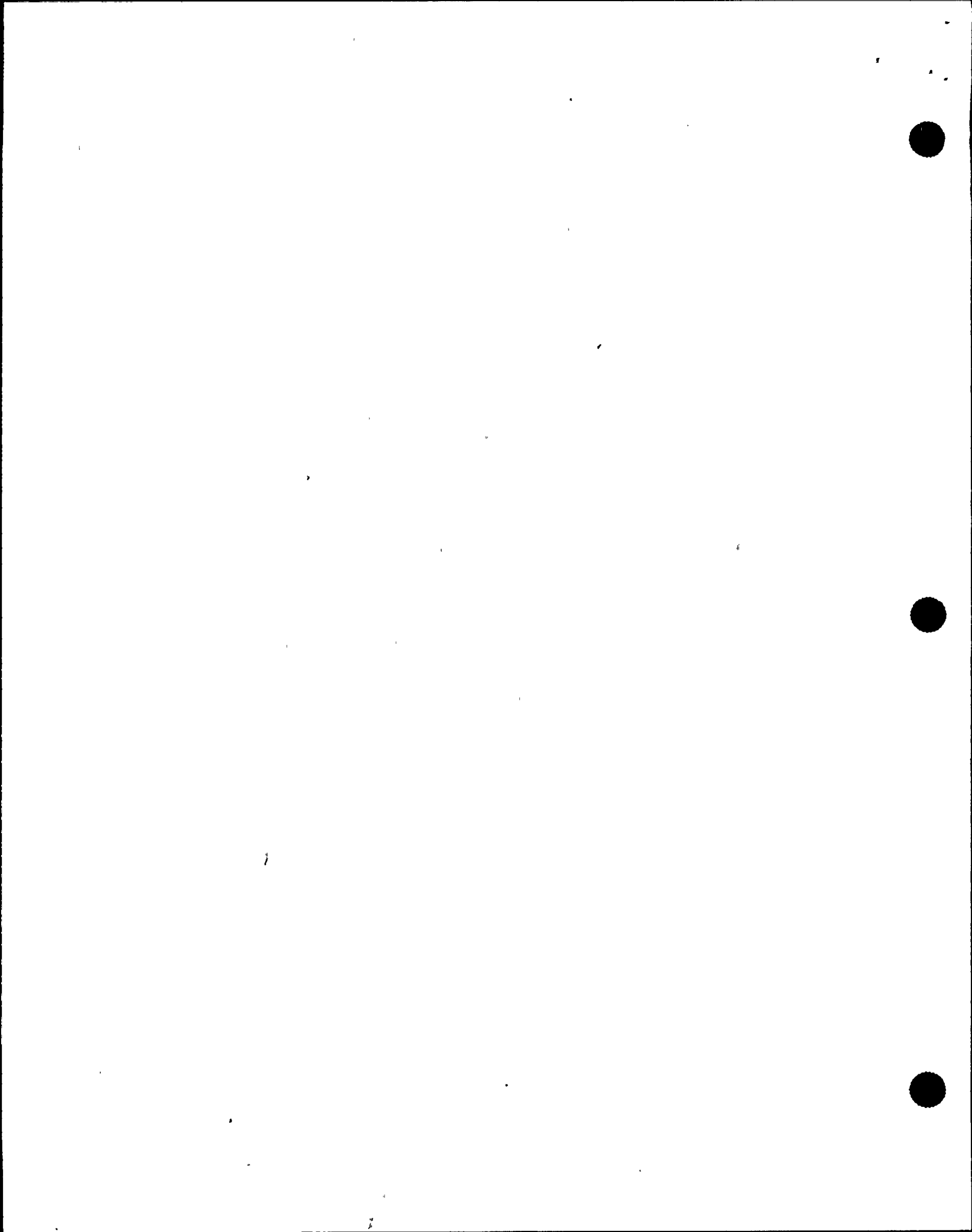
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ATTACHMENT 7A
GUIDELINE FOR COMPLETING THE
NRC EVENT NOTIFICATION WORKSHEET
(Page 1 of 2)

- A. Contact information - to be completed following contact
1. Name of the NDDO contacted: - should be consistent with the NDDO duty schedule.
 2. NRC Contacts Name - will be provided upon contact. Also obtain the event number and notification time as received from the HOO should be recorded on the top of the worksheet.
- B. Event Notification Worksheet, Page 1
1. Notification Time - enter the time contact is made.
 2. Unit - enter the appropriate unit number: Enter "0" for a classification common to both units.
 3. Callers Name - enter the name of the person making the call.
 4. Callback # - enter the number of the ENS phone that you are calling from and the commercial phone number at which you can be reached.
 5. Event time and Zone - enter the military time, the zone will be "EST" for Eastern Standard Time or "EDT" for Eastern Daylight-savings Time.
 6. Event Date - enter the date the event is occurring.
 7. Power/Mode Before & Power/Mode After - enter the power in percent and the mode number (1-6) before and after the event.
 8. Event Classifications - check one of the four blocks for General Emergency, Site Area Emergency, Alert, or Notification of Unusual Event.

/R4



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ATTACHMENT 7A
GUIDELINE FOR COMPLETING THE
NRC EVENT NOTIFICATION WORKSHEET
 (Page 2 of 2)

B. (continued)

NOTE
 No other blocks in the upper half of the form are required.

9. Description - provide a written description of the event.

NOTE
 Check the blocks in the lower portion of the form based on current conditions.

10. Mode of operation until corrected - provided if known.

11. Estimate for restart date - enter "unknown".

12. Additional info on Page 2 - enter yes or no.

C. Event Notification Worksheet, Page 2

1. Fill in as much of the information on the back of the form as is immediately available - do not create undue delay in making the notification. This information can be gained once the open line of communication is established.

/R4

END OF ATTACHMENT 7A



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ATTACHMENT 8
CRITERIA FOR EVACUATION

A. Criteria for Local Evacuation

The need for Local Evacuation should be determined in accordance with the following criteria:

Evacuate the affected local area in which any of the following conditions occur:

1. Area Radiation Monitor Alarm.
2. Containment Evacuation Alarm.
3. Unevaluated direct radiation dose rate increase in excess of 100 mRem/hour above normal levels.
4. Unexpected airborne radioactivity concentration in excess of 1×10^{-9} micro Ci/cc.
5. Removable radioactive surface contamination in an unposted area in excess of 1000 dpm/100 cm² beta-gamma over an area of 100 ft².
6. Removable radioactive surface contamination in an unposted area in excess of 50 dpm/100cm² alpha over an area of 100 ft².
7. The Emergency Coordinator determines that a situation exists for which Local Evacuation is appropriate.

B. Criteria for Owner Controlled Area Evacuation

The Owner Controlled Area shall be evacuated in the following circumstances:

1. Site Area Emergency
2. General Emergency
3. If the Emergency Coordinator determines that the entire Owner Controlled Area should be evacuated.

END OF ATTACHMENT 8

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**ATTACHMENT 9
TURNOVER GUIDELINES**

(Page 1 of 2)

Upon arrival at the affected Control Room, the prospective Emergency Coordinator should review the following items/issues with the Control Room Emergency Coordinator (not in a particular order):

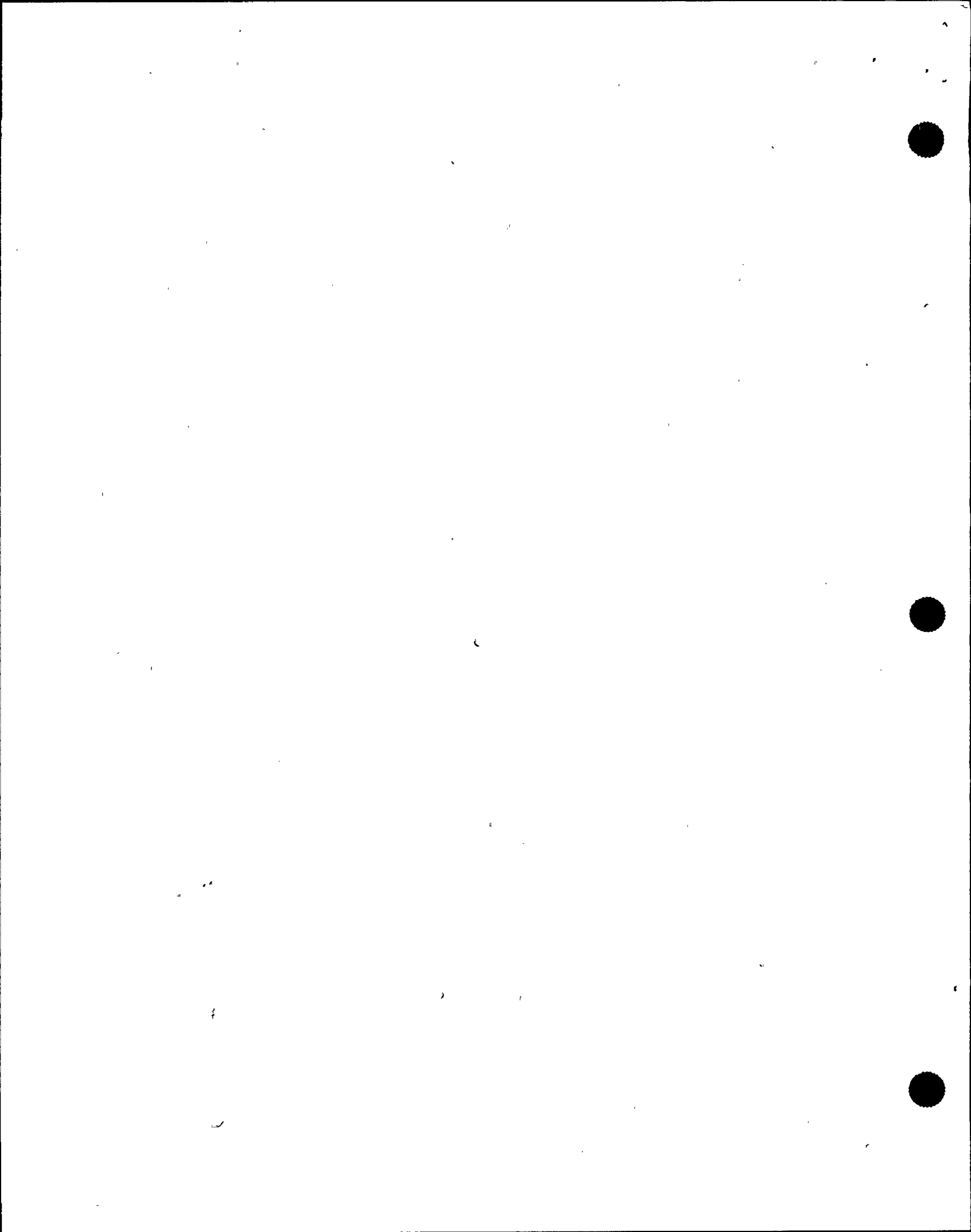
NOTE

This information (1-10 below) should be reviewed with the DCS.

1. Type of accident or incident
2. Plant status
3. Equipment out-of-service
4. Operator actions underway
5. Radiological conditions
6. Meteorological conditions
7. Procedure status
8. Emergency Plan activities underway, including any on-site or off-site protective actions
9. Conditions and/or trends of concern
10. Personnel injuries or radiation exposures

Prior to leaving Control Room verify the status of the following:

1. Emergency classification
2. Off-site notifications



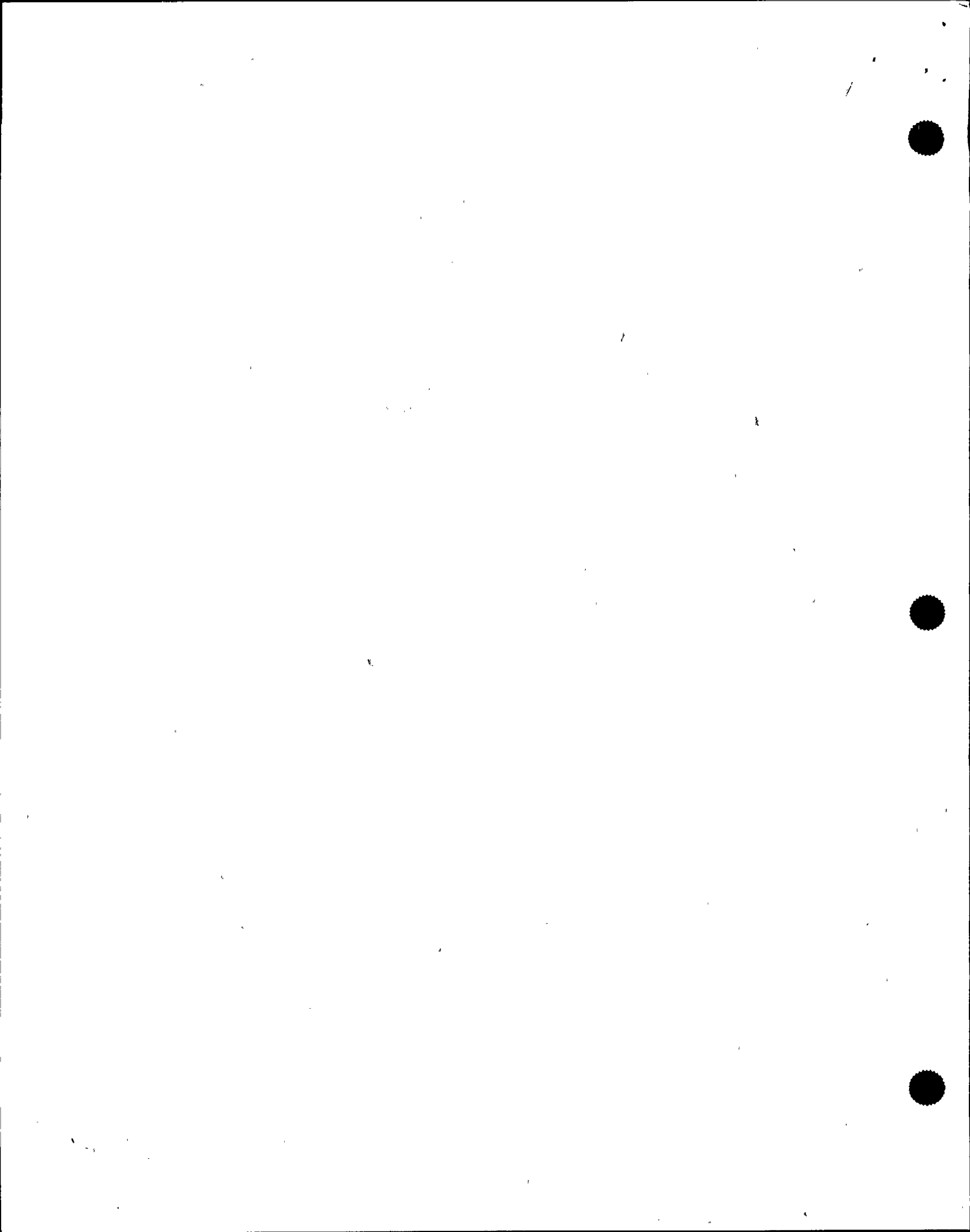
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ATTACHMENT 9
TURNOVER GUIDELINES
(Page 2 of 2)

Bring the following items to the Technical Support Center:

1. Copy of RCO log (entries from start of the event)
2. Completed notification forms (State and NRC)
3. Operations Accountability Aid (only if completed)

END OF ATTACHMENT 9



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ATTACHMENT 10
RE-ENTRY GUIDELINES
(Page 1 of 3)

CAUTION

As specified in ADM-17.09, Invoking 10 CFR 50.54(x), the Emergency Coordinator (EC) may (with the concurrence of a licensed senior operator) waive re-entry requirements to place the plant in a safe shutdown condition or mitigate a release, if this immediate action is needed to protect the public health and safety.

1. Prior to evacuation and with the Operational Support Center (OSC) NOT operational.

Re-entry guidelines do not apply.

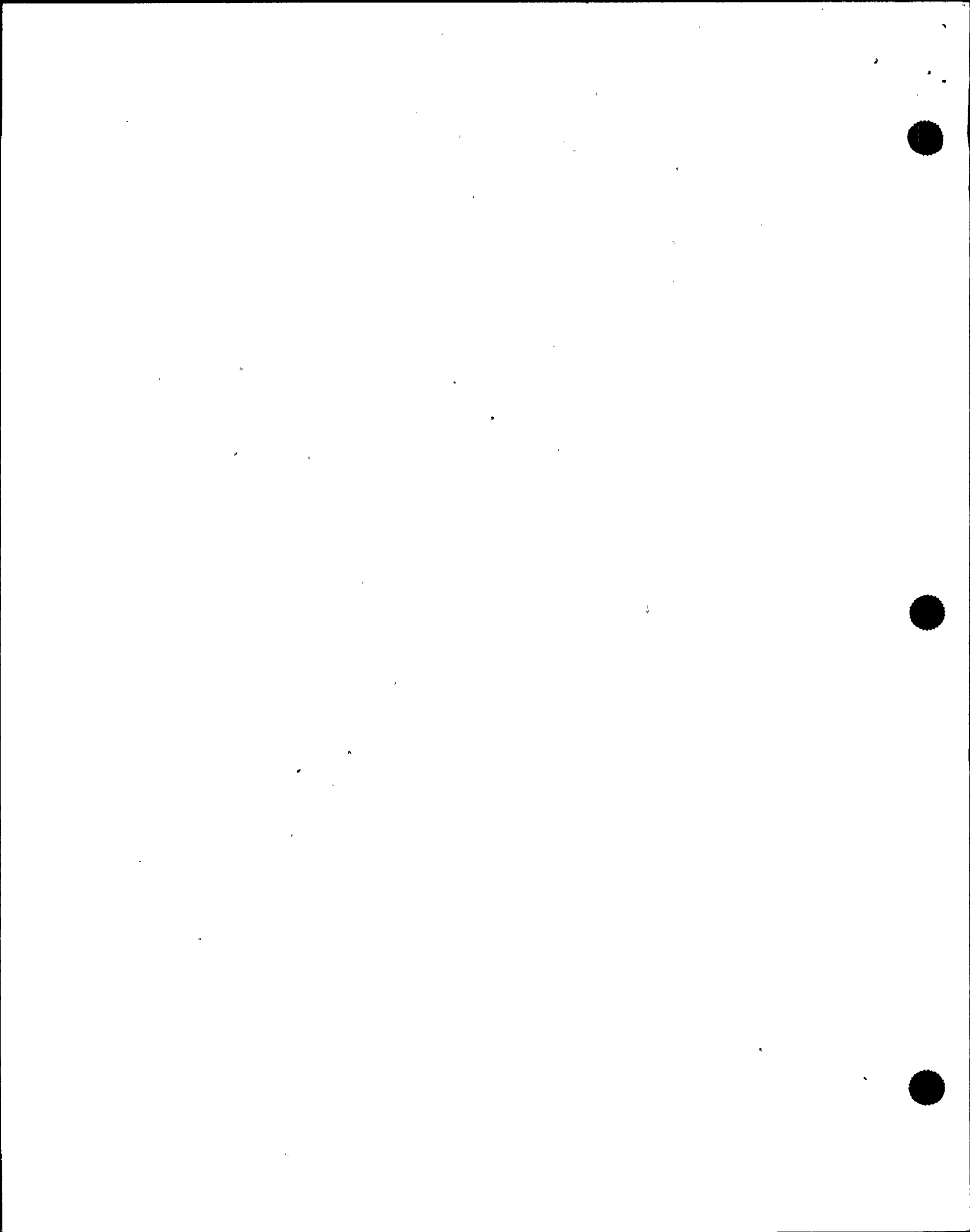
2. Prior to evacuation and with the OSC operational.

- a. Operators in the field should return to the Control Rooms and obtain an Electronic Personal Dosimeter (EPD) from the Health Physics Emergency Kit prior to returning to field.
- b. Since teams may be dispatched from the OSC prior to evacuation of any plant areas, the OSC Supervisor and Health Physics Supervisor in the OSC (HPOSC) should evaluate the event in progress and determine the most likely trends in radiological conditions. If the event is likely to result in evacuation(s), due to radiological concerns, the teams should be dressed, equipped, and briefed, similarly to Re-entry Teams.

3. Evacuation ordered and with the OSC NOT operational.

Operator actions in the field must be viewed as re-entry activities. Operators shall return to the Control Rooms following the evacuation order. Operator shall obtain an Electronic Personal Dosimeter (EPD) from the Health Physics Emergency Kit, if not done previously. Re-entry into the plant requires:

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ATTACHMENT 10 <u>RE-ENTRY GUIDELINES</u> (Page 2 of 3)		
<p>3. (continued)</p> <ul style="list-style-type: none"> a. The EC (initially the NPS) authorize the entry. b. A team of at least two individuals be formed (one person should be knowledgeable in the principles of radiation protection, (e.g., Health Physics Technician, Chemist, or Non-licensed Operator (NLO))). c. Maintenance of appropriate radiological and safety measures. d. Tracking the whereabouts of the team. <p>NLOs, from both Units, are to report to the OSC once it goes operational.</p> <p>4. Evacuation ordered and with the OSC operational</p> <ul style="list-style-type: none"> a. All field activities are re-entries and shall be coordinated and controlled by the OSC. b. Re-entry into an evacuated area shall be made only when authorized by the EC and under the direction of the TSC HP Supervisor (TSC HPS) and the HPOSC for one or more of the following reasons: <ul style="list-style-type: none"> 1. To ascertain that all personnel who were in the affected area have been evacuated and to search for unaccounted for personnel. 2. To assist in evacuating injured or incapacitated personnel from the affected area. 3. To perform operations which mitigate the effect of the emergency or hazardous condition. 4. To determine the nature and extent of the emergency and/or radiological conditions. 5. To establish definite personnel exclusion area boundaries. 		



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ATTACHMENT 10
RE-ENTRY GUIDELINES
(Page 3 of 3)

5. The Re-entry Team members should be selected based on appropriate qualifications relevant to the purpose for the entry.
6. A Re-entry Team shall consist of at least two qualified persons, one of whom shall be knowledgeable in Health Physics procedures.
7. The most qualified (relative to the entry) person should be selected to serve as the Re-entry Team Leader. He/she should be fully briefed concerning the nature of the emergency and the expectations for the entry.
8. All Re-entry Team members shall wear protective clothing, dosimeters, respiratory devices, and other protective devices as specified by the HPOSC.
9. A contingency Re-entry Team should be developed consisting of representatives from each of the maintenance disciplines and Health Physics. This team anticipates the need for a high priority, rapid response request from the EC/TSC.

END OF ATTACHMENT 10

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ATTACHMENT 11

**§1 BASIS FOR EXPOSURE LIMITS FOR
EMERGENCY RESPONSE PERSONNEL**

(Page 1 of 3)

Exposure to emergency response personnel should be maintained As Low As Reasonably Achievable (ALARA). Actions taken during an emergency should take into consideration the amount of exposure required to accomplish the task versus the potential benefit to the public health and safety.

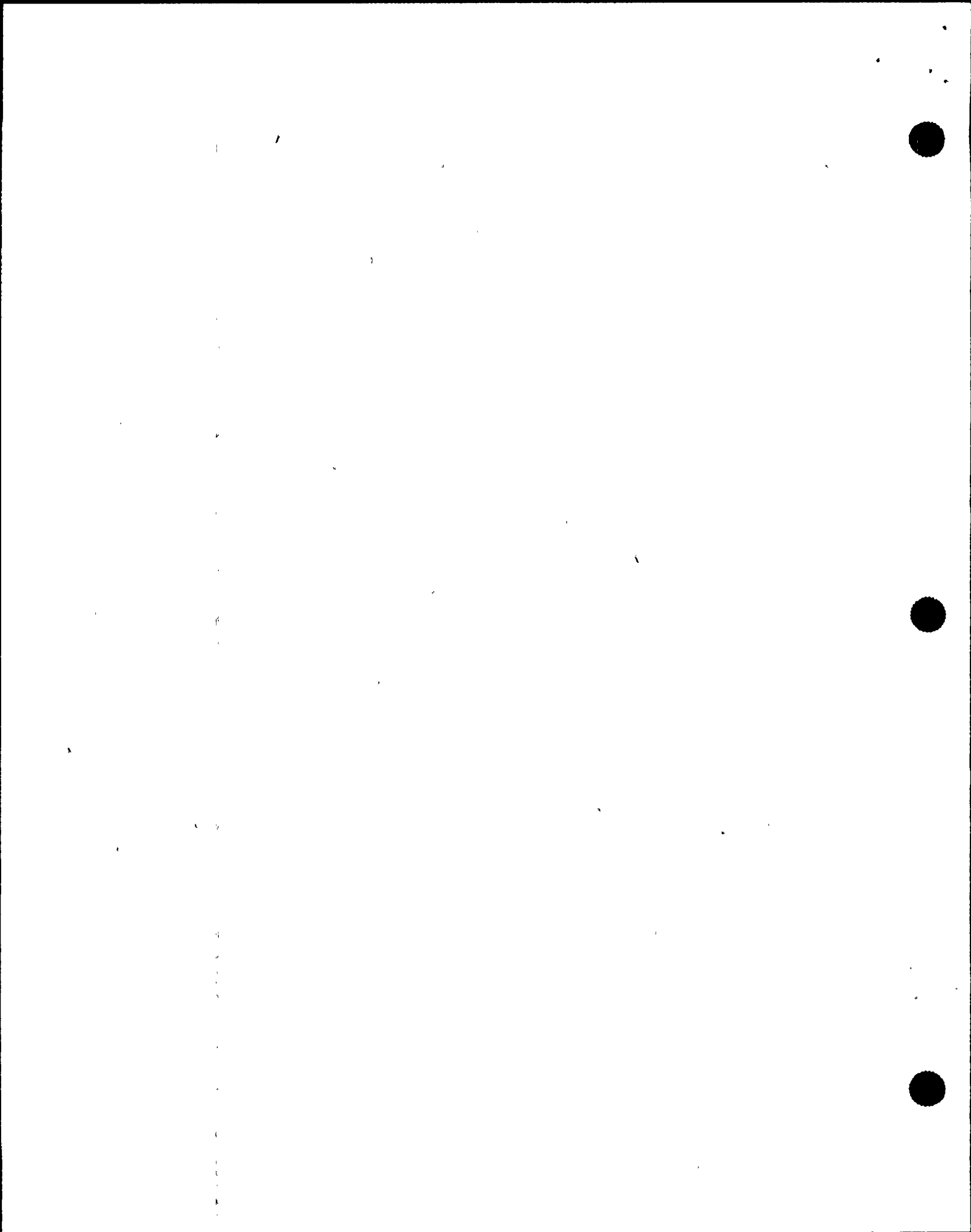
Conditions may warrant re-entry into high radiation areas leading to exposure in excess of the regulatory limit. Except for rescue of personnel (life-saving only), authorization must be given in advance by the Emergency Coordinator (EC) in consultation with the TSC Health Physics Supervisor (or alternate). If time permits, the EC should obtain concurrence from the Recovery Manager if the EOF is operational. In any case, where regulatory limits have been exceeded the EC shall notify the RM of the event.

For those remote circumstances involving an event in progress and obtaining EC approval will result in leaving the accident scene or decrease the victim(s) chance of survival, lifesaving actions may be performed without obtaining EC approval. The EC shall be notified immediately following the rescue operation.

Re-entry personnel that have been selected/chosen to exceed regulatory exposure limits should be volunteers⁽⁴⁾, broadly familiar with the risks involved (radiosensitivity of fetuses, effects of acute exposures, etc.), whose normal duties have trained them for such missions.

EPA 400 Manual of Protective Action Guides and Protective Actions for Nuclear Incidents, EPA 400-R-92-001 states that "To assure adequate protection of minors and the unborn during emergencies, the performance of emergency services should be limited to non-pregnant adults". FPL endorses this guidance; however, FPL recognizes that it is the right of the worker to make the decision to perform as an on-site emergency worker, understanding the potential risks involved.

Since, by their very nature, emergency exposures requiring immediate action are not planned, they are not controlled as a Planned Special Exposure. Dose received from exposure under emergency conditions will be added to the dose received during the current year, prior to the emergency, to determine compliance with the occupational dose limits in 10 CFR 20.



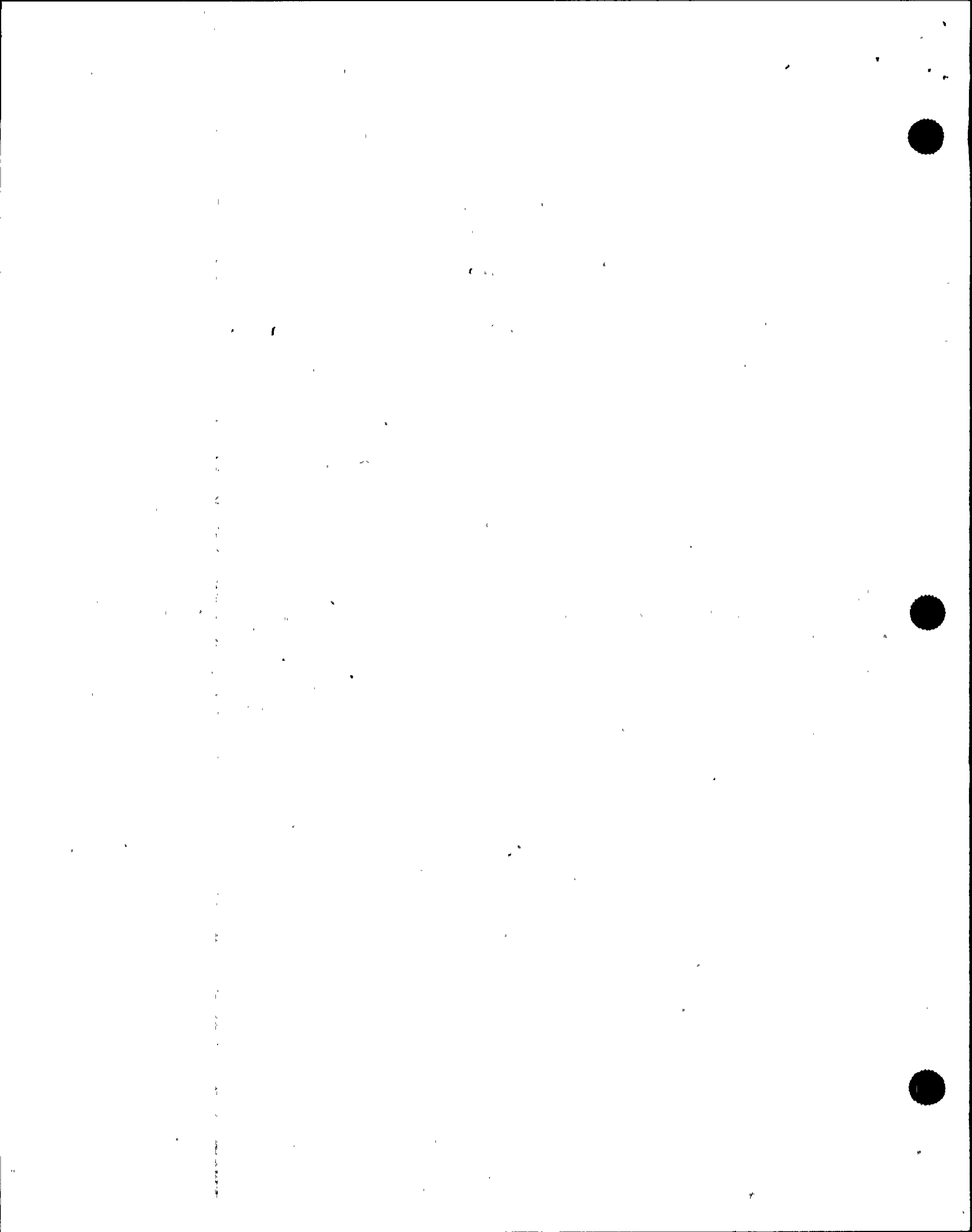
REVISION NO.: 4	PROCEDURE TITLE: DUTIES AND RESPONSIBILITIES OF THE EMERGENCY COORDINATOR	PAGE: 64 of 65
PROCEDURE NO.: EPIP-02	ST. LUCIE PLANT	

ATTACHMENT 11
§1 BASIS FOR EXPOSURE LIMITS FOR
EMERGENCY RESPONSE PERSONNEL
(Page 2 of 3)

Doses above regulatory limits will require reporting pursuant to 10 CFR 20.2202 and 20.2203. Any dose in excess of the annual limits specified in Section 20.1201(a) will be accounted for in accordance with 10 CFR 20.1206(e). If an individual exceeds any of these limits, then the individual will not be available for additional dose under 20.1201(a).

- | <u>NOTE</u> |
|---|
| 1. Both Total Dose (TEDE) and Thyroid Dose (CDE) should be used for purposes of controlling exposure. |
| 2. Protective clothing, including respirators, should be used where appropriate. |

For the following missions, the exposure limit is ⁽¹⁾ :	Total Dose ⁽²⁾ (TEDE)	THYROID ⁽³⁾ (CDE)
Performance of actions that would not directly mitigate the event, minimize escalation, or minimize effluent releases.	5 REM	50 REM
Performance of actions that mitigate the escalation to the event, rescue persons from a <u>non-life</u> threatening situation, minimize exposures or minimize effluent releases.	10 REM	100 REM
Performance of actions that decrease the severity of the event or terminate the processes causing the event in an attempt to control effluent releases to avoid extensive exposure of large populations. Also, rescue of persons from a <u>life-threatening</u> situation.	25 REM	250 REM
Rescue of person from a <u>life-threatening</u> situation. (Volunteers ⁽⁴⁾ should be above the age of 45.)	(5)	(5)

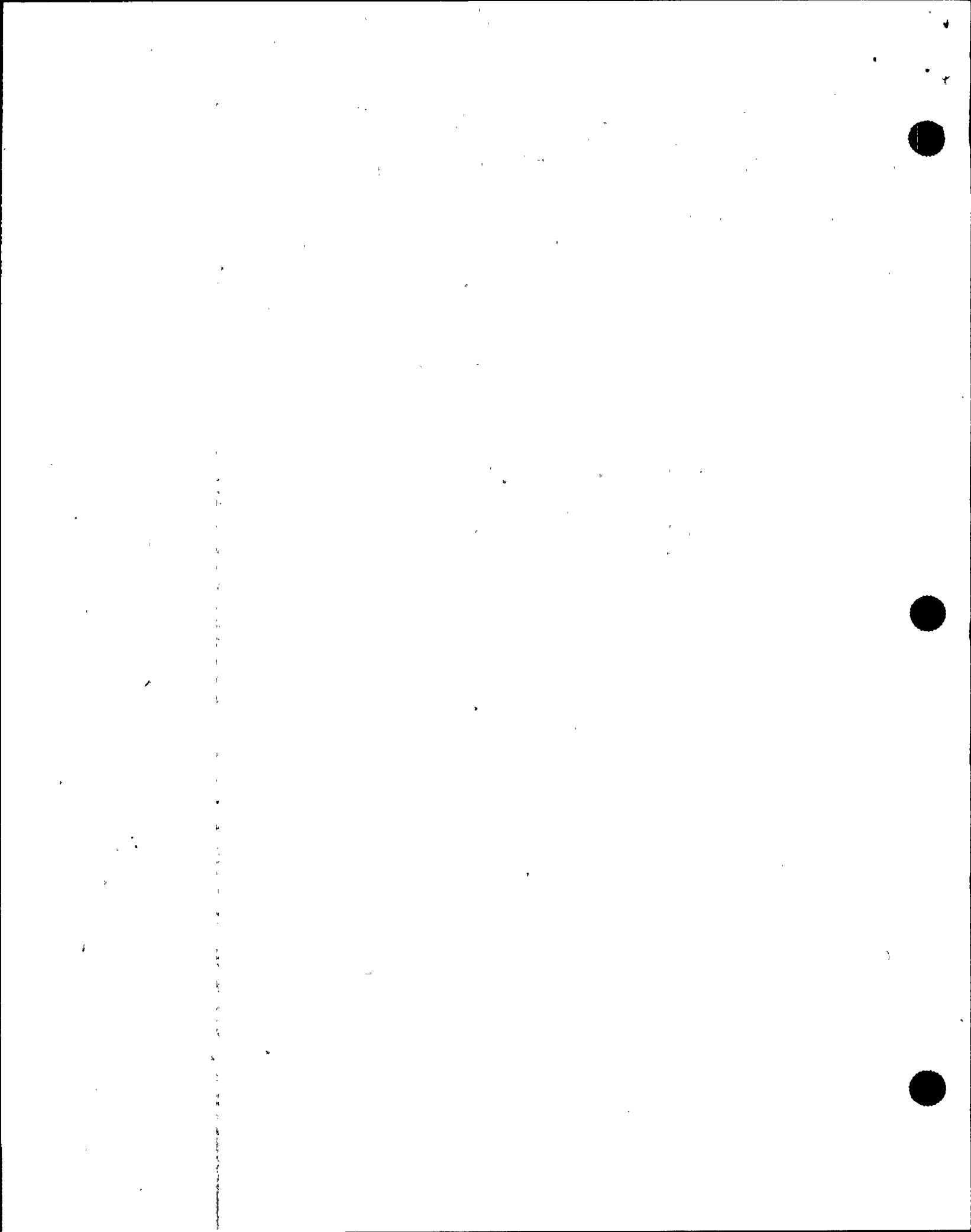


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ATTACHMENT 11
§1 BASIS FOR EXPOSURE LIMITS FOR
EMERGENCY RESPONSE PERSONNEL
 (Page 3 of 3)

- (1) Exposure limits to the lens of the eye are 3 times the Total Dose (TEDE) values listed.
- (2) Total Dose (TEDE) is the total whole body exposure from both external and internal (weighted) sources - Total Effective Dose Equivalent.
- (3) Thyroid Dose (CDE) commitment from internal sources - Committed Dose Equivalent. The same dose limits also apply to other organs (CDE), skin (Shallow Dose Equivalent) and extremities (Extremity Dose Equivalent).
- (4) Volunteers with full awareness of risks involved including numerical levels of dose at which acute effects of radiation will be incurred and numerical estimates of the risk of delayed effects.
- (5) No upper limit for Total Dose (TEDE) and/or Thyroid Dose (CDE) exposure has been established because it is not possible to prejudge the risks that one person should be allowed to take to save the life of another. Also, no specific limit is given for thyroid exposure since in the extreme case, complete thyroid loss might be an acceptable sacrifice for a life saved. This should not be necessary if respirators and/or thyroid protection for rescue personnel are available as the result of adequate planning.

END OF ATTACHMENT 11





**ST. LUCIE PLANT
HEALTH PHYSICS
PROCEDURE**

SAFETY RELATED

Procedure No.
HP-202

Current Rev. No.
25

Effective Date:
09/28/99

Title:

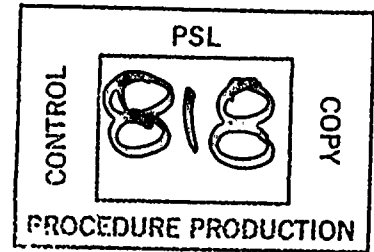
**ENVIRONMENTAL MONITORING
DURING EMERGENCIES**

Responsible Department:

HEALTH PHYSICS

Revision Summary

Revision 25 - Added Red Team survey points. (Don Reisinger, 09/16/99)



Revision	FRG Review Date	Approved By	Approval Date	S__OPS
<u>0</u>	<u>07/07/81</u>	<u>C. M. Wethy</u> Plant General Manager	<u>07/13/81</u>	DATE _____ DOCT <u>PROCEDURE</u> DOCN <u>HP-202</u> SYS _____ COMP <u>COMPLETED</u> ITM <u>25</u>
<u>25</u>	<u>09/16/99</u>	<u>R. G. West</u> Plant General Manager	<u>09/16/99</u>	
		<u>N/A</u> Designated Approver		

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ST. LUCIE PLANT
HEALTH PHYSICS PROCEDURE NO. HP-202, REVISION 25
ENVIRONMENTAL MONITORING DURING EMERGENCIES

1.0 TITLE:

ENVIRONMENTAL MONITORING DURING EMERGENCIES

2.0 REVIEW AND APPROVAL:

See cover page

3.0 PURPOSE:

To provide a method for the determination of radioiodine concentrations and dose rates in the environment due to releases of radioactive materials from the plant under accident conditions.

3.1 The off-site Field Monitoring Teams monitor releases in the Emergency Planning Zone (EPZ) from the plant out to a distance of approximately 10 miles.

/R25

3.2 The on-site Field Monitoring Team monitors releases outside the plant PROTECTED AREA but within the OWNER-CONTROLLED AREA.

/R25

4.0 LIMITS AND PRECAUTIONS:

4.1 Off-site monitoring within the Plume Exposure Pathway EPZ shall be performed by St. Lucie Field Monitoring Teams.

/R25

4.2 Field Monitoring Teams shall be under the direction of the TSC HP Supervisor (TSC HPS) in the Technical Support Center (TSC).

4.3 One member of each Field Monitoring Team shall be a qualified Health Physics Technician (HPT).

4.4 All Field Monitoring Team members shall wear personal dosimetry while doing monitoring.

4.5 Field Monitoring Teams should obtain FPL vehicles equipped with a cigarette lighter (power supply for portable radio) to use for transportation. Vehicles should have their engines on (running) and radios on during field activities.

**ST. LUCIE PLANT
HEALTH PHYSICS PROCEDURE NO. HP-202, REVISION 25
ENVIRONMENTAL MONITORING DURING EMERGENCIES**

4.0 LIMITS AND PRECAUTIONS: (continued)

- 4.6 The Field Monitoring Teams shall drive out of the release plume to count samples.
- 4.7 Respiratory protection equipment is available for each Field Monitoring Team and shall be used when the team is in the release plume.
- 4.8 The FPL Field Monitoring Teams shall communicate sample analysis data only to the plant unless otherwise directed by the TSCHPS.
- 4.9 The responsibility of the on-site Field Monitoring Team is to monitor releases on the FPL owned property. The Site Assembly Station is a principle location to monitor and other locations as directed by the TSCHPS. /R25

4.10 The TSCHPS shall deploy the Field Monitoring Teams according to the following emergency classifications:

ALERT	Onsite	1 Team
SITE AREA/ GENERAL EMERGENCY	Onsite Offsite	1 Team (if not previously deployed) /R25 2 Teams

4.11 Ensure all personnel using/handling the radios are familiar with the warnings/precautions contained in Appendix A to this procedure. /R25

5.0 RELATED SYSTEMS STATUS:

None

6.0 REFERENCES:

- 6.1 St. Lucie Plant Radiological Emergency Plan (E-Plan)
- 6.2 HP-200, Health Physics Emergency Organization
- 6.3 EPIP-10, Off-site Radiological Monitoring
- 6.4 FP&L Environmental Survey Team Map (10 mile EPZ)

ST. LUCIE PLANT
HEALTH PHYSICS PROCEDURE NO. HP-202, REVISION 25
ENVIRONMENTAL MONITORING DURING EMERGENCIES

7.0 RECORDS REQUIRED:

7.1 Field Monitoring Team Log Book

7.2 Table 1, Field Monitoring Team Check List

7.3 The following document when completed shall be maintained in the plant files in accordance with QI-17-PSL-1, "Quality Assurance Records." /R25

1. Form HP 202.1, Environmental Airborne Activity Calculation Form

ST. LUCIE PLANT
HEALTH PHYSICS PROCEDURE NO. HP-202, REVISION 25
ENVIRONMENTAL MONITORING DURING EMERGENCIES

8.0 INSTRUCTIONS:

- 8.1 The TSCHPS directs the staffing and deployment of the Field Monitoring Teams. Upon the declaration of an ALERT level emergency the on-site out-of-plant Field Monitoring Team shall be activated and the off-site Field Monitoring Teams may be activated at the discretion of the Emergency Coordinator. If the classification is a SITE AREA or GENERAL EMERGENCY the on-site out-of-plant Field Monitoring Team and the off-site Field Monitoring Teams shall be activated.

/R25

NOTE

1. Verify respirator qualification of all field team members - consult the Radiation Exposure Summary Report.
2. Verify vehicle has cigarette lighter.
3. SAS keys are at the North Security Building, if needed.

- 8.2 The HP Supervisor in the Operational Support Center (HPOSC) is responsible for the deployment of the Field Monitoring Teams and ensuring each HPT is:

1. Paired with a driver
2. Provided a vehicle
3. Red Team only
 - Given a hand-held radio
 - Given a pair of boltcutters (from the OSC HP Emergency kit)

NOTE

The first team to complete Table 1, Field Monitoring Team Checklist, becomes the Red Team and is the first dispatched to the field.

- 8.3 Upon arrival at the Site Assembly Station (SAS) the Field Monitoring Teams call the Technical Support Center (TSC). The TSCHPS designates the on-site Field Monitoring Team as the Red Team, the off-site Field Monitoring Team as the Blue Team and the other off-site Field Monitoring Team as the Orange Team.

/R25

ST. LUCIE PLANT
HEALTH PHYSICS PROCEDURE NO. HP-202, REVISION 25
ENVIRONMENTAL MONITORING DURING EMERGENCIES

8.0 INSTRUCTIONS: (continued)

- 8.4 Each Field Monitoring Team shall inventory their respective Emergency Kit and complete the Field Monitoring Team Checklist (see Table 1).
- 8.5 Equipment operability shall be verified in accordance with Appendix A, Operability Instructions.

NOTE

Supplemental or replacement equipment and/or instruments are available in the spare Emergency Kit.

- 8.6 Following completion of inventories and equipment checks, the Field Monitoring Teams will be given instructions on required monitoring points. Monitoring points are designated using Emergency Planning Zone (EPZ) map coordinates, highway and road numbers/names, or the points shown in Appendix B, Preselected On-site Monitoring Points and/or Appendix C, Preselected Off-site Monitoring Points under the direction of the TSCHPS. /R25
- 8.7 Field Monitoring Teams will proceed to the designated monitoring points.

NOTE

If a release is in progress, Field Monitoring Teams should monitor dose rates and count rates during transit and report any indications of a plume to the TSC. Ensure count rate meter is operating in cab of truck during transit. /R25

- 8.8 Prior to arriving at the sampling location, place a AgX cartridge and particulate filter in the sample head. Mark the upstream face of both filters.
- 8.9 Upon arrival at the sampling location, the Field Monitoring Team should perform a dose rate survey in following manner. Record the time arrived at location in the blank labeled Time on Form HP 202.1, Environmental Airborne Activity Calculation Form found in this procedure.
1. Holding the survey instrument at head height with the detector upward, and beta window open, obtain a radiation reading of the overhead plume. The beta window should be open to assist in detecting low levels in the plume. If a positive indication is observed, close the beta window and observe the gamma dose rate. Enter the dose rates on worksheet HP 202.1, line 3.

ST. LUCIE PLANT
HEALTH PHYSICS PROCEDURE NO. HP-202, REVISION 25
ENVIRONMENTAL MONITORING DURING EMERGENCIES

8.0 INSTRUCTIONS: (continued)

8.9 (continued)

2. Report the dose rates to the plant.
 3. With the vehicle engine running, connect the air sampler power leads to the vehicle's battery, taking care to connect the positive and negative cables to the positive and negative battery terminals, respectively.
 4. Start the stop watch and note the air flow rate. Run the air samples long enough to collect a 6 cubic foot sample, unless otherwise instructed.
 5. During air sampling, the Field Monitoring Teams should observe the dose rate instrument for significant changes in dose rates. Report significant changes to the plant.
 6. The Field Monitoring Team shall drive out of the release plume and count the samples.
 7. Remove the AgX cartridge and particulate filter from the sampler head and place in separate labeled bags. Analyze the AgX cartridge per Appendix A, Step 5, save both samples as further inhouse analysis may be desired.
- 8.10 Air samples should be bagged, labeled and a log entry made of the following information:
1. Date and start time of sample
 2. Duration of sample
 3. Average flow rate of air sampler
 4. Location of sample (map coordinates, landmarks, etc.)
 5. Field Monitoring Team name
 6. Air sampler number
 7. Ludlum 2218 Analyzer Serial Number

ST. LUCIE PLANT
HEALTH PHYSICS PROCEDURE NO. HP-202, REVISION 25
ENVIRONMENTAL MONITORING DURING EMERGENCIES

8.0 INSTRUCTIONS: (continued)

- 8.11 Communicate the data as indicated on the worksheet (HP 202.1), enter similar information in the bound logbook and standby for further instructions.
- 8.12 The TSCHPS may direct that a longer sampling period be used if very low release concentrations are suspected to be occurring.

**ST. LUCIE PLANT
HEALTH PHYSICS PROCEDURE NO. HP-202, REVISION 25
ENVIRONMENTAL MONITORING DURING EMERGENCIES**

**TABLE 1
FIELD MONITORING TEAM CHECKLIST**

1.0 Emergency Kit (Footlocker) Inventory - verify necessary items.

NOTE	
1.	Magnetic-mount antenna is on top of kit.
2.	If kit seal is unbroken, <u>Then</u> go to step 2.

- 1.1 TLD (2) _____
- 1.2 EPD (2) _____
- 1.3 DRD, 0 - 5 R (2) _____
- 1.4 Dosimeter Charger (1) _____
- 1.5 Full Face Respirator (2) (can be functionally checked on the spot) _____
- 1.6 Charcoal Canister (2) _____
- 1.7 AgX Cartridge (6) _____
- 1.8 Particulate Filter (6) _____
- 1.9 Stopwatch (1) _____
- 1.10 Air Sample Bag (6) _____
- 1.11 Surgical Gloves (6) _____
- 1.12 Tweezers (1) _____
- 1.13 Flashlight (1) _____
- 1.14 Calculator (1) _____
- 1.15 Portable Radio _____
- 1.16 Power Cord with Cigarette-lighter Plug _____
- 1.17 Microphone with Cable _____
- 1.18 DC Power Receptacle with Battery Chips _____
- 1.19 Logbook (1) _____
- 1.20 List of TSC Phone Numbers (1) _____
- 1.21 Procedure, HP-202 (1) _____
- 1.22 HP 202.1 Forms (6) _____
- 1.23 Set of Site and Local Maps (1) _____

2.0 Verify Operability of Equipment (All tests in accordance with Appendix A, Operability Instructions)

- 2.1 High Volume Air Sampler with battery cables _____
 - 1. Perform operability check IAW Appendix A.
- 2.2 Portable Dose Rate Instrument _____
 - 1. Perform operability check IAW Appendix A.
- 2.3 Portable Count Rate Instrument _____
 - 1. Perform operability check IAW Appendix A.
- 2.4 Ludlum 2218 Analyzer _____
 - 1. Perform operability check IAW Appendix A.
- 2.5 Field Team Radio _____
 - 1. Review Operating Instructions.
 - 2. Attach magnetic-mount antenna to radio and vehicle.
 - 3. Plug radio power cord into vehicle cigarette lighter.
 - 4. Test radio.

3.0 Prior to departing the Site Assembly Station verify the following:

- 3.1 Radio check completed with the Plant _____
- 3.2 Dose Rate and Count Rate Instruments in cab and on lowest scale _____
- 3.3 Portable Count Rate Instrument in Emergency Kit (Footlocker) _____
- 3.4 Respirators in the cab _____
- 3.5 Field Team Members equipped with dosimetry _____
- 3.6 Maps in vehicle cab _____
- 3.7 Bolt cutters available (Red Team only) _____

/R25

Team Name _____

Inventory by _____ Date ____/____/____

Operability Checks by _____ Date ____/____/____

ST. LUCIE PLANT
HEALTH PHYSICS PROCEDURE NO. HP-202, REVISION 25
ENVIRONMENTAL MONITORING DURING EMERGENCIES

APPENDIX A
OPERABILITY INSTRUCTIONS
(Page 1 of 11)

1. Connect Hi Vol Air Sampler to truck battery (observe polarity) with engine running, turn air sampler on, confirm that flow is > 1.0 cfm, with collection filters and holder in place.
2. Portable Dose Rate Instrument - Check calibration sticker, battery test and response to supplied check source.
3. Portable Count Rate Instrument - Check calibration sticker, battery test (unplug line cord) and response to supplied check source.
4. 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, see Figure 1.

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

- 4.1 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 successfully passes the operational check.

- A. Turn the POWER knob to BAT.
- B. Unplug the AC line cord.
- C. Depress the BAT testbutton.
- D. Observe the condition below the RATE SCALE.

ST. LUCIE PLANT
HEALTH PHYSICS PROCEDURE NO. HP-202, REVISION 25
ENVIRONMENTAL MONITORING DURING EMERGENCIES

APPENDIX A
OPERABILITY INSTRUCTIONS
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4. (continued)

4.1 (continued)

E. 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____.

F. If the battery condition is acceptable, then continue with the steps below.

4.2 Set the STABILIZER toggle switch to OFF.

4.3 Ch1 (Ch2), set the ADD-OFF-SUBTRACT knob to ADD.

4.4 Ch2 (Ch1), set the ADD-OFF-SUBTRACT knob to OFF.

4.5 Ch1 and Ch2, set the ON-BYPASS toggle switch to BYPASS.

4.6 Ch1 (Ch2), set the WINDOW and the THRESHOLD dials (in accordance with settings on the side of the 2218 cabinet.

4.7 Set the unused Channel's WINDOW and THRESHOLD dials to 10.0.

4.8 Ch1 (Ch2), set the IN-OUT toggle switch to IN.

4.9 Ch2 (Ch1), set the IN-OUT toggle switch to OUT.

4.10 Set the MINUTES knob to X1.

4.11 Set the LIVE-CLOCK toggle switch to LIVE.

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

4.13 Set the CH1-CH2-SCALER knob to SCALER.

ST. LUCIE PLANT
HEALTH PHYSICS PROCEDURE NO. HP-202, REVISION 25
ENVIRONMENTAL MONITORING DURING EMERGENCIES

APPENDIX A
OPERABILITY INSTRUCTIONS
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4. (continued)

4.14 Set the MINUTES thumbwheel to 01.

4.15 Perform a source check as follows:

- A. Place the Ba-133 check source in the shield under the detector.
- B. Depress the COUNT-RESET button to start counting.
- C. When counting stops, compare the displayed counts with the acceptance range that is located on the side of the instrument.
- D. If the displayed counts are within the acceptance range, then go to Step 4.17. If the displayed counts are not within the acceptance range, then go to Step 4.16.

4.16 High Voltage (HV) adjustments are performed as follows:

- A. Set the MINUTES knob to EXT.
- B. Place the Ba-133 check source in the shield under the detector.
- C. Depress the COUNT-RESET button to start counting.
- D. Observe the COUNTS/MINUTE (Count Rate Meter) scale while making small adjustments in voltage to obtain the **maximum** count rate achievable.
- E. Increase or decrease the voltage with the HV (High Voltage) dial.
- F. Set the MINUTES knob to X1.
- G. Depress the COUNT-RESET button to start counting.
- H. When counting stops, compare the displayed counts with the acceptance range that is located on the side of the instrument.

ST. LUCIE PLANT
HEALTH PHYSICS PROCEDURE NO. HP-202, REVISION 25
ENVIRONMENTAL MONITORING DURING EMERGENCIES

APPENDIX A
OPERABILITY INSTRUCTIONS
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4. (continued)

4.16 (continued)

- I. If the displayed counts are within the acceptance range, then go to Step 4.17. If the displayed counts are not within the acceptance range, then do not use the instrument.
- J. Tag the instrument OUT-OF-SERVICE, give the reason.
- K. Obtain another 2218 and perform the operability check.

4.17 Set the MINUTES thumbwheel to 05.

4.18 The battery and operational response checks have been successfully completed and the instrument has been set to count samples.

5. Operation of the Ludlum Model 2218:

5.1 Obtain Form HP 202.1, Environmental Airborne Activity Calculation Form.

5.2 Verify that the MINUTES thumbwheel is set to 05, adjust as necessary.

5.3 Perform a Background Count by depressing the COUNT-RESET button.

5.4 If the Background Counts are greater than 10,000 counts, then move to an area of presumed lower background. Repeat step 5.3. If the Background Counts are less than 10,000 counts, then go to the next step. If the background counts are still greater than 10,000 counts, continue and try to locate a lower background area.

5.5 Enter the number of counts in the blank labeled Background Counts on Form HP 202.1 and 5 in the blank labeled Count Time.

ST. LUCIE PLANT
HEALTH PHYSICS PROCEDURE NO. HP-202, REVISION 25
ENVIRONMENTAL MONITORING DURING EMERGENCIES

APPENDIX A
OPERABILITY INSTRUCTIONS
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5. (continued)

- 5.6 Calculate the Background Counts Per Minute (BCPM) by dividing the Background Counts by the Minutes.
- 5.7 Calculate the MINIMUM DETECTABLE COUNT (MDCR) using the following formula:

$$MDCR = BKG (CPM) + 4.66 \sqrt{\frac{BKG (CPM)}{BKG \text{ COUNT TIME (MIN)}}$$

- 5.8 Place the air sample cartridge in the shield under the detector so that the inlet side of the cartridge is facing the detector.
- 5.9 Count the sample by depressing the COUNT-RESET button.
- 5.10 If the Gross Counts are greater than 750,000 counts, then reduce the counting time to 1 minute by setting the MINUTES thumbwheel to 01. Repeat step 5.8. If the Gross Counts are less than 750,000 counts, then go to the next step.
- 5.11 Enter the number of counts in the blank labeled Gross Counts on Form HP 202.1 and 5 or 1 (as appropriate) in the blank labeled Count Time.
- 5.12 Calculate the Gross Counts Per Minute (GCPM) by dividing the Gross Counts by the Minutes.
- 5.13 Compare sample GROSS COUNT PER MINUTE (GCPM) to the calculated MDCR.
1. If GCPM is less than MDCR ($GCPM < MDCR$), Then report I^{131} activity as less than minimum detectable activity (<MDA).
 2. If GCPM is equal to or greater than MDCR ($GCPM \geq MDCR$) GO TO step 5.14.



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HEALTH PHYSICS PROCEDURE NO. HP-202, REVISION 25
ENVIRONMENTAL MONITORING DURING EMERGENCIES

APPENDIX A
OPERABILITY INSTRUCTIONS
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5. (continued)

5.14 Calculate the Net Counts Per Minute (NCPM) by subtracting the BCPM from the GCPM and enter in the blank labeled NCPM on Form HP 202.1.

5.15 Calculate the I-131 concentration ($\mu\text{Ci/ml}$) by entering the requested values in the following formula.

$$I-131 \mu\text{Ci/ml} = \frac{NCPM}{(2.63 E+09) (\text{_____ Ft}^3 \text{ volume})}$$

Background Counts per Minute= _____ (5.6)

Gross Counts per Minute = _____ (5.12)

Net Counts per Minute = _____ (5.14)

APPENDIX A
 OPERABILITY INSTRUCTIONS
 (Page 7 of 11)

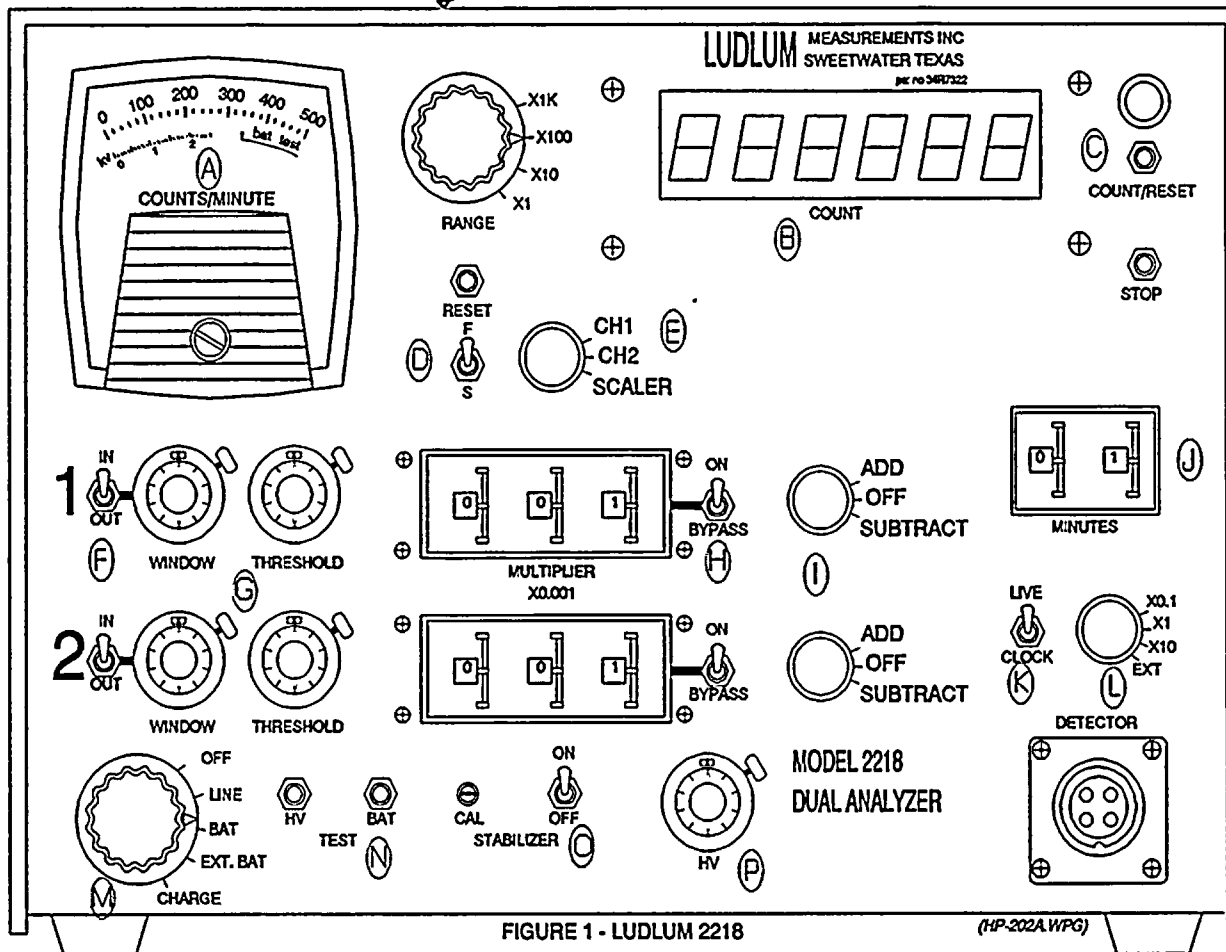


FIGURE 1 - LUDLUM 2218

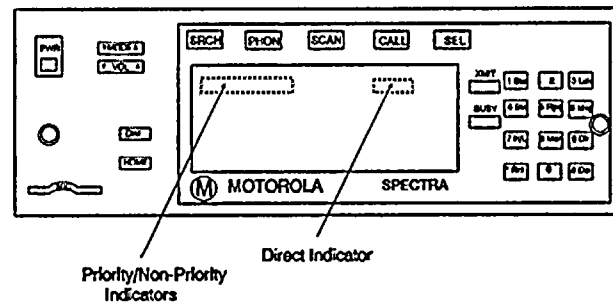
(HP-202A WPG)

Battery Check	HV Adjustment	Count Verification	Operational Check (Ch1)/Operation
M - set to "BAT"	L - set to "EXT"	L - set to "X1"	O - toggle to "OFF"
N - depress test button to check battery condition	C - depress button to start count	C - depress button to start count	I - Ch1 to "ADD," Ch2 to "OFF"
A - Indicates battery condition on "BAT TEST" scale	P - adjust voltage	B - compare counts with acceptance range for the instrument	H - toggle to "BYPASS" for Ch1 and Ch2
	A - observe maximum count rate		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" for check set to "05" for sample count
			C - depress button to start count

ST. LUCIE PLANT
HEALTH PHYSICS PROCEDURE NO. HP-202, REVISION 25
ENVIRONMENTAL MONITORING DURING EMERGENCIES

APPENDIX A
OPERABILITY INSTRUCTIONS
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Operating Instructions for the Motorola Spectra Radio



(HP-202B.WPG)

To Turn On The Radio: Press the power switch once.

To Set Volume and Squelch: Hold [Vol] rocker down to increase or decrease volume as desired; then release. The display shows volume levels from 0 to 15. The radio is ready to receive calls. On conventional modes with *Private Line* or *Digital Private Line*, press [Mon] or remove the microphone from the hang-up clip to defeat the coded squelch. Press again to return to coded-squelch operation. To adjust squelch level, hold [Mon] until a beep sounds; use [Mode] to select squelch level. Press [Home].

To Change Modes: Press [Mode] to select desired mode, or press [Home] to access the preprogrammed home mode.

To Transmit: Press and hold the microphone PTT; when the transmit light comes on solid and no alert tones sound (or a talk-permit tone or ID sidetone sounds), speak into the microphone in a normal voice. State your FCC call sign at the beginning of each transmission.

To Talk Mobile-to-mobile (Conventional Modes): Press [Dir]; the DIR indicator lights to indicate direct (mobile-to-mobile) operation. Press [Dir] again to return to repeater operation.

To Activate operator Selected Coded Squelch (Conventional Modes): Press [MPL]; the MPL indicator lights to indicate the operator selected value is now active. Press [MPL] again to return to the mode strapped value.

To Activate Scan: Press [Scan] to start the scanning operation. The radio scans a preselected list of modes for activity. If no activity exists, the display shows your selected mode. When a scanned channel or talkgroup becomes active, the display shows the active mode name. The PRI and NPRI indicators show priority. Press [Scan] again to stop scanning.

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APPENDIX A
OPERABILITY INSTRUCTIONS
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Operating Instructions for the Motorola Spectra Radio
(continued)

To Edit a Scan List: Hold [Scan] until a beep sounds and the scan indicator blinks. Then,

- (1) Use [Mode] to select the mode you want to program.
- (2) Press [Sel] to add or to remove the displayed mode to the scan list. Repeat these steps to add to or change the list as desired. Then press [Home].

To Select Scan Mode Priority: When editing a Priority Scan list, you may designate two of the modes as priorities by pressing the [Sel] button as indicated below. When priorities are set, press [Home] to end scan list selection.

Press [Sel]	Assigns Mode to	Indicator
1 Time	Non-Priority	NPRI Lights
2 Times	Second Priority	PRI Lights
3 Times	First Priority	PRI Blinks

NOTE

The radio should be turned off whenever the engine is off to avoid draining the vehicle battery.

GENERAL SAFETY INFORMATION

The United States Department of Labor, through the provisions of the Occupational Safety and Health Act of 1970 (OSHA) has established an electromagnetic energy safety standard that applies to the use of this equipment. Proper use of this radio will result in exposure below the OSHA limit. The following precautions are recommended:

- DO NOT operate the transmitter of a mobile radio when someone outside the vehicle is within two feet (0.6 meter) of the antenna.
- DO NOT operate the transmitter of a fixed radio (base station, microwave, the rural telephone RF equipment) or marine radio when someone is within two feet (0.6 meter) of the antenna.

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APPENDIX A
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Operating Instructions for the Motorola Spectra Radio
(continued)

GENERAL SAFETY INFORMATION
(continued)

- DO NOT operate the transmitter of any radio unless all RF connectors are secure and any open connectors are properly terminated.
- DO NOT operate this equipment near electrical blasting caps or in an explosive atmosphere.
- All equipment must be properly grounded according to Motorola installation instructions for safe operation.
- All equipment should be serviced only by a qualified technician.

Refer to the appropriate section of the product service manual for additional pertinent safety information.

INSTALLATION SAFETY WARNING

Consider the occupants' safety when you choose a location for the radio. Do not mount the radio overhead or on a sidewall unless you take special precautions.

If someone were to remove the radio and fail to replace it properly, road shock could bump the radio loose and the falling radio could, in some circumstances, cause serious injury to the driver or a passenger. In a crash, even when properly installed, the radio could break loose and become a dangerous missile.

If you must mount the radio overhead or on a sidewall, give it the added protection of a retaining strap.

OPERATIONAL SAFETY WARNINGS

WARNING

For vehicles equipped with electronic anti-skid systems, see ANTI-SKID BRAKING PRECAUTIONS Publication, Motorola Number 68P81109E34.

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Operating Instructions for the Motorola Spectra Radio
(continued)

OPERATIONAL SAFETY WARNINGS
(continued)

WARNING

For vehicles equipped with electronic ignition systems, check the service manual for warnings about the use of two-way radio equipment in the vehicle.

WARNING

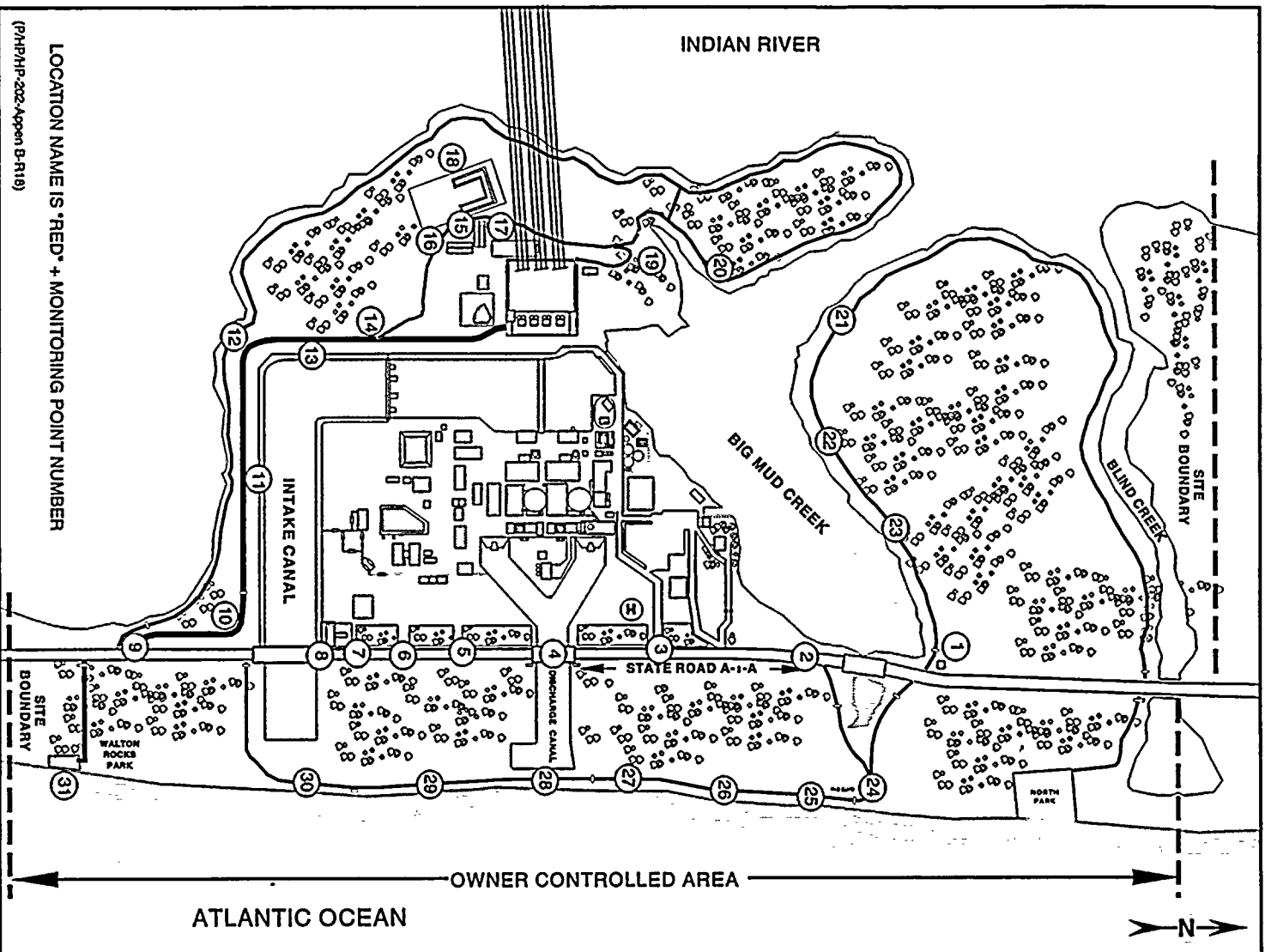
It is mandatory that radio installation in vehicles fueled by liquefied petroleum gas conform to the following standard:

National Fire Protection Association standard NFPA 58 applies to radio installation in vehicles fueled by liquefied petroleum (LP) gas with LP gas container in the trunk or other sealed-off space within the interior of the vehicles. This standard requires that:

1. Any space containing radio equipment shall be isolated by a seal from the space in which the LP gas container and its fittings are located.
2. Remote (outside) filling connections shall be used.
3. The container space shall be vented to the outside.

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APPENDIX B
PRESELECTED ON-SITE MONITORING POINTS
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APPENDIX B
PRESELECTED ON-SITE MONITORING POINTS
(Page 2 of 4)

<u>MONITORING POINT</u>	<u>LOCATION</u>	<u>DISTANCE FROM PLANT (MILES)</u>	<u>EPZ SECTOR</u>
Red-1	Met Tower, Site Assembly Sta.	0.5	A
Red-2	Gate A & Rte A1A	0.3	B
Red-3	Gate B & Rte A1A	0.25	B
Red-4	Discharge Canal Bridge @ Rte A1A	0.2	D
Red-5	Gate C & Rte A1A	0.25	E
Red-6	Gate D & Rte A1A	0.3	F
Red-7	Gate E & Rte A1A	0.33	F
Red-8	Gate F & Rte A1A (north side of intake canal)	0.45	G
Red-9	Gate G & Rte A1A	0.6	G
Red-10	Ball Park Road (first north to westbound corner)	0.5	G
Red-11	Ball Park Road (@ mile marker on berm)	0.46	G, H
Red-12	Ball Park Road (@ corner turning north)	0.5	H, J
Red-13	Ball Park Road (post in berm, midway between monitoring points Red 12 & 14)	0.38	J
Red-14	Ball Park Road (@ left turn towards Gun Range/ Picnic Pavilion)	0.3	K

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<u>MONITORING POINT</u>	<u>LOCATION</u>	<u>DISTANCE FROM PLANT (MILES)</u>	<u>EPZ SECTOR</u>
Red-15	Gate W-25 (east side of Gun Range)	0.4	L
Red-16	Picnic Pavilion	0.33	L
Red-17	Intersection of Boat Ramp turnoff & road to Fire Training Area	0.32	L
Red-18	Gate W-26 (west side of Gun Range)	0.5	L
Red-19	Boat Ramp	0.36	M, N
Red-20	Fitness Trail (@ .5 mi. sign)	0.5	N
Red-21	Road, north side of Big Mud Creek (opposite Boat Ramp)	0.35	P
Red-22	Road, north side of Big Mud Creek (opposite City Water Storage Tanks)	0.30	Q
Red-23	Road, north side of Big Mud Creek (opposite Barge Slip)	0.4	R
Red-24	Turtle Beach Parking Lot	0.62	B
Red-25	Large foot bridge	0.54	B, C
Red-26	Small foot bridge	0.51	C
Red-27	Concrete power pad	0.5	C
Red-28	Discharge Canal Header	0.5	D

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<u>MONITORING POINT</u>	<u>LOCATION</u>	<u>DISTANCE FROM PLANT (MILES)</u>	<u>EPZ SECTOR</u>
Red-29	Halfway between Discharge & Intake Canal Headers	0.52	E
Red-30	Intake Canal Header	0.6	F
Red-31	Walton Beach entrance road (@ fork in the road)	0.8	G

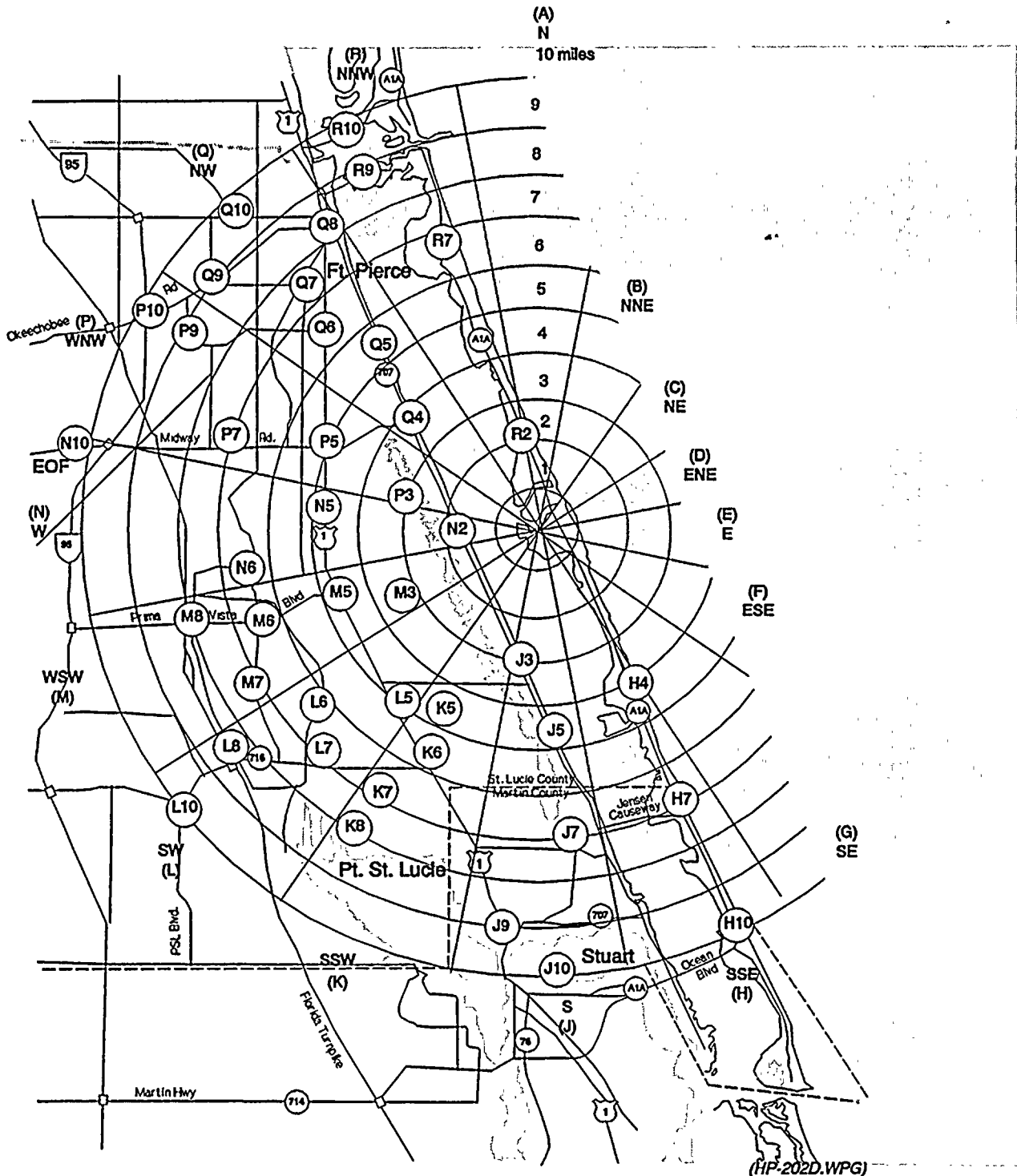
/R25

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Monitoring Point	Location	Distance From Plant	EPZ Sector
R2	S.R. A1A, NNW of plant site (Little Mud Creek Bridge)	2.3	R
R7	Intersection S.R. A1A and Clipper Blvd. (Entrance to Ocean Village)	6.7	R
R9	S.R. A1A, NNW of plant site (West of Fire Dept. at Siren)	8.6	R
R10	East side of North Bridge (S.R. A1A)	9.6	R
Q4	Intersection of Indian River Dr. (S.R. 707) and White Rd., East of White City and South of Fort Pierce	3.7	Q
Q5	Intersection of Indian River Dr. (S.R. 707) and Rio Vista Dr.	5.4	Q
Q6	Intersection of U.S. 1 and Edwards Rd. (S.R. 611.B), South side of Ft. Pierce near railroad crossing	6.4	Q
Q7	Intersection of Oleander Blvd. (S.R. 605) and Virginia Ave.	7.4	Q
Q8	Intersection U.S. 1 and Delaware Ave.	8.1	Q
Q9	Intersection of Okeechobee Rd. (S.R. 70) and Hartman Rd. (S. 41st St.) (near siren)	9.1	Q
Q10	Intersection of Orange Ave. (S.R. 68) and Angle Rd.	9.6	Q
P3	Intersection of Bartow St. and Yucca Dr.	3.2	P
P5	Intersection of U.S. 1 and Midway Rd. (S.R. 712), White City	5.2	P
P7	Intersection of Midway Rd. (S.R. 712) and Christianson Rd. (at siren)	7.1	P

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PRESELECTED OFF-SITE MONITORING POINTS
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Monitoring Point	Location	Distance From Plant	EPZ Sector
P9	Intersection of McNeil Rd. and Edwards Rd. (611B)	8.7	P
P10	Intersection of Okeechobee Rd. (S.R. 70) and I-95	9.7	P
N2	S.R. 707 West of plant site (at siren)	2.0	N
N5	Intersection of U.S. 1 and Saeger Rd. (south of White City)	4.8	N
N6	Intersection of St. James Dr. and Airoso Blvd.	6.4	N
N10	St. Lucie's EOF, Intersection of S.R. 712 and I-95	10.2	N
M3	East end of N. Mediterranean Blvd.	3.4	M
M5	Intersection of U.S. 1 and Prima Vista Blvd., Port St. Lucie	4.8	M
M6	Intersection of Prima Vista Blvd. and Airoso Blvd.	6.5	M
M7	Intersection of Airoso Blvd. and Whitmore Dr.	7.3	M
M8	Intersection of Prima Vista Blvd. and Bayshore Blvd.	7.8	M
L5	Intersection of U.S. 1 and Walton Rd., Port St. Lucie	4.8	L
L6	Intersection of Floresta Dr. and Thornhill Dr.	6.4	L
L7	Intersection of Whitmore Drive and Port St. Lucie Blvd.	7.2	L
L8	Intersection of Port St. Lucie Blvd. and Fla. Turnpike	8.4	L
L10	Intersection of Port St. Lucie Blvd. and Cairo Ave.	10	L

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Monitoring Point	Location	Distance From Plant	EPZ Sector
K5	Intersection of Lennard Rd. and Blossom Rd.	4.7	K
K6	Intersection of U.S. 1 and Port St. Lucie Blvd., Port St. Lucie	5.7	K
K7	Intersection of Morningside Blvd. and Westmoreland Blvd.	7.1.	K
K8	Intersection of Morningside Blvd. and River Vista Dr.	8.0	K
J3	Intersection of Walton Rd. and Indian River Dr. (S.R. 707)	3.4	J
J5	Intersection of Indian River Dr. (S.R. 707) and Mockingbird Hill Rd. (near siren)	4.7	J
J7	Intersection of Jensen Beach Blvd. (S.R. 707A) and Savannah Rd. (S.R. 723)	7.0	J
J9	Intersection of Wright Blvd. and U.S. 1	9.2	J
J10	Martin Memorial Hospital	10.0	J
H4	S.R. A1A, south of plant (at siren) North to entrance to Nettle's Island	4.0	H
H7	Intersection of S.R. A1A and the Jensen Beach turnoff (A1A Alt.) (at siren)	6.9	H
H10	Intersection of S.R. A1A and Ocean Blvd. (Elliot Museum)	9.8	H

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HP 202.1
ENVIRONMENTAL AIRBORNE ACTIVITY CALCULATION FORM

- * 1. Team _____ Date ____/____/____ Time _____
- * 2. Location _____
- * 3. Radiation Survey: Window Open _____ mrem/hr
Window Closed _____ mrem/hr

4. Air Sample Volume:

Sample Start Time _____ Sample Stop Time _____
Starting Flow Rate _____ CFM Ending Flow Rate _____ CFM
Average Flow Rate _____ CFM Sample Time _____ Min
Sample Volume = Average Flow Rate (CFM) X Sample Time (Min)
= _____ CFM X _____ Min = _____ Cubic Feet

NOTE

In the event radioiodine (I-131) analysis cannot be done in the field, the TSC HP Supervisor will provide for the transport of air samples to the plant site for analysis.

5. Background Count Rate = Background Counts / Count Time
= _____ counts / _____ Min = _____ BKG cpm

6. $MDCR = BKG \text{ cpm} + 4.66 \sqrt{\frac{BKG \text{ cpm}}{BKG \text{ Count Time}}} = \text{_____ MDCR (cpm)}$

7. Gross sample count rate (GCPM) = Gross counts / Count Time
= _____ counts / _____ min
= _____ GCPM

8. Net Count Rate (NCPM) = GCPM - Bkg cpm
NCPM = _____ GCPM - _____ BKG cpm
NCPM = _____

9. If "NCPM" is less than "MDCR", Then ¹³¹I activity is "<MDA" (less than detectable). /R25

10. ¹³¹I activity ($\mu\text{Ci}/\text{ml}$) = $\frac{\text{_____ NCPM}}{(2.63 \text{ E} + 09) (\text{_____ sample volume, Ft}^3)}$ /R25

- * 11. ¹³¹I activity = _____ $\mu\text{Ci}/\text{ml}$
- * 12. Plume Departure Time _____
- * 13. Plume Stay Time: _____ minutes

Survey performed by _____

NOTIFY TSC OF ALL * ITEMS

