FPL

ST. LUCIE PLANT EMERGENCY PLAN IMPLEMENTING PROCEDURE

SAFETY RELATED

Procedure No. **EPIP-06**

Current Rev. No. **5**

Effective Date: **10/18/01**

Title:

ACTIVATION AND OPERATION OF THE EMERGENCY OPERATIONS FACILITY

Responsible Department: **EMERGENCY PLANNING**

Revision Summary

Revision 5 - Updated instructions for obtaining EPIP list on Lotus Notes. (J.R. Walker, 10/11/01)

Revision 4 - Deleted exposure guideline basis, revised state liaison title, added GAM direct reports to EOP org chart, clarified instructions, revised PAR briefing guidance and made editorial and administrative changes. (J. R. Walker, 06/11/01)

Revision 3 - THIS PROCEDURE HAS BEEN COMPLETELY REWRITTEN. Added new PAR brief attachment. Deleted notification and PAR attachment (relocated to new EPIP-08. Moved responsibility for preparing State Notification Form from EOF HRD Communicator to EOF RM Ops Advisor/Logkeeper. Add alternate instruction for procedure revision verification. Made editorial and administrative changes. Added ETM Activities List form. (Donna Calabrese, 05/31/00)

Revision	FRG Review Date	Approved By	Approval Date
0	12/15/97	J. Scarola Plant General Manager	12/15/97
5	10/11/01	R.G. West Plant General Manager	10/11/01
		N/A Designated Approver	
		N/A Designated Approver (Minor Corrections)	

S___OPS
DATE_____
DOCT PROCEDURE
DOCN EPIP-06
SYS_____
COMP COMPLETED
ITM 5

TABLE OF CONTENTS

TABLE OF CONTENTS
(continued)

SECTION PAGE

ATTACHMENTS (continued)

TABLE OF CONTENTS
(continued)

1.0 PURPOSE

1.1 Discussion

This procedure provides instructions for the activation and operation of the Emergency Operations Facility (EOF).

1.2 Location and Description

The EOF is a dedicated facility located at the intersection of State Route 712 (Midway Road) and I-95 approximately 10 1/2 miles west of the St. Lucie Plant. The EOF has emergency communications equipment, precalculated emergency data, pertinent reports, plans, procedures, and drawings available for use.

1.3 EOF Functions

1. Accident assessment in conjunction with the Technical Support Center (TSC)

§2 2. Protective action decision making

§2 3. Off-site notifications (State, County, NRC)

4. Off-site dose assessment

5. Off-site field monitoring activities

6. Core damage assessment

7. Interfacility communications with the TSC

8. Interaction with off-site officials

9. Direction of recovery operations

1.0 PURPOSE (continued)

1.4 Minimum Staffing

1. The following is a recommended list of the minimum positions needed for EOF operation:

- Recovery Manager
- EOF RM OPS Advisor/Logkeeper
- EOF Communicator (HRD)
- ERDADS Operator OR EOF Communicator (to TSC)
- EOF Dose Assessor/FMT Coord

§2 **1.5** Activation

Activation of the EOF is the responsibility of the Recovery Manager (RM) and is required for a Site Area Emergency or General Emergency. EOF personnel should be placed in the facility for an Alert, as conditions warrant. Arrangements have been made to activate the EOF in a timely manner.

1.6 Operations

The EOF has sufficient space to accommodate the Florida Power & Light Company (FPL) response organization and designated representatives of the Federal, State, and Local authorities. This co-location allows for an effective communications interface, coordinated decision making, and timely implementation of protective actions.

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)

4. St. Lucie Plant Physical Security Plan

5. St. Lucie Plant Safeguards Contingency Plan

¶1 **6.** St. Lucie Plant Topical Quality Assurance Report

7. E-Plan Implementing Procedures (EPIP 00-13)

8. St. Lucie Plant Emergency Response Directory (ERD)

9. Florida Power & Light Company St. Lucie Plant Recovery Plan

10. Florida Power & Light Company Corporate Communications Nuclear Emergency Plan.

11. QI-17-PSL-1, Quality Assurance Records

2.0 REFERENCES/RECORDS REQUIRED/COMMITMENT DOCUMENTS (continued)

2.1 REFERENCES (continued)

§3 **12.** Fitness for Duty Rule, 10 CFR 26

¶12 **13.** Reactor Operator Tech Manual 8770-12058

14. NUREG-0654, Rev. 1, FEMA Rep. 1, Criteria for Preparation and Evaluation of Radiological Emergency Response Plans and Preparedness in Support of Nuclear Power Plants; November, 1980.

15. St. Lucie Unit 1 and 2 as-built drawings, Nuclear Engineering files, and Ebasco Engineering files

¶13 **16.** Institute of Nuclear Power Operations, Emergency Resources Manual - INPO 86-032.

¶14 **17.** Nuclear Energy Policy on Exposure Limits for Emergency Response Personnel, Revision to Policy Statement, Ltr. No. JNO-HP-94-056, 26 October, 1994.

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-PSL-1.

2.3 COMMITMENT DOCUMENTS

§4 **1.** Condition Report 96-2900, (Review and approval of Recovery Plan)

¶15 **2.** PMAI 99-0-024 (RM Briefing Consistency)

3.0 RESPONSIBILITIES

3.1 Recovery Manager (RM)

§2 **1.** Declares the EOF operational for any Site Area Emergency or General Emergency.

2. Establishes and maintains command and control of the EOF.

§2 **3.** Assumes the following responsibilities from the Emergency Coordinator (EC) when the EOF is prepared to go operational:

A. Notification of off-site agencies (State and Counties), and

B. Develops and issues Protective Action Recommendations (PARs) to State and County officials.

§2 **4.** Declares the EOF operational with the concurrence from the EC.

§2 **5.** Ensures notification of State and County agencies occurs within fifteen (15) minutes following any change in emergency classification and notification of the NRC occurs immediately following notification of the State and Counties, and in all cases within one (1) hour.

§2 **6.** Establishes policies, for situations in which no company policy currently exists, to support the actions that will aid in mitigation of the emergency.

§2 **7.** Expends funds as necessary to cope with emergency situations.

§2 **8.** Provides support to the EC as necessary.

§2 **9.** Provides concurrence to the EC for exceeding 10 CFR 20 limits for emergency response personnel, as appropriate.

3.0 RESPONSIBILITIES (continued)

3.1 Recovery Manager (RM) (continued)

§2 **10.** Requests additional support as necessary.

11. Interfaces with the Nuclear Regulatory Commission, Director of Site Operations (NRC, DSO) when the NRC Site Team arrives at the EOF.

12. De-escalates all events classified as Site Area Emergency or General Emergency.

§2 **13.** Prepares an Incident Report for submittal to the State Division of Emergency Management (DEM) and the NRC within twenty-four (24) hours after termination of an Alert or higher emergency event.

3.2 EOF Emergency Technical Manager (ETM)

§2 **1.** Provides engineering support to the EOF by directing all engineering response including:

A. Nuclear Engineering

B. Nuclear Fuels Engineering and core damage analysis

C. Electrical Engineering

D. I&C Engineering

E. Mechanical Engineering

F. Civil Engineering

2. Supports the TSC in problem solving based on engineering design and as-built construction details.

3. Oversees plant data acquisition and posting.

4. Interfaces with the NRC Reactor Safety Coordinator when the NRC Site Team arrives at the EOF.

3.0 RESPONSIBILITIES (continued)

3.3 EOF Licensing Manager

1. Oversees EOF communications performed by the following communicators:

A. Hot Ring Down (HRD) Communicator

B. Emergency Notification System (ENS) Communicator

C. Health Physics Network (HPN) Communicator

D. TSC Communicator

¶3 **2.** Ensures that the Institute of Nuclear Power Operations (INPO) is kept abreast of emergency status and resource requirements.

3. Serves as primary liaison with the NRC once the Site Team arrives at the EOF, interfacing with the Emergency Response Coordinator.

3.4 EOF Health Physics Manager (HPM)

1. Directs the collection, assessment, and interpretation of all radiological and radiochemistry information in the EOF.

2. Assists the RM in PAR decision making.

3. Ensures that radiological questions/concerns arising from the Emergency News Center (ENC) are addressed/resolved.

4. Interfaces with the State of Florida's Department of Health, Bureau of Radiation Control on all radiological matters.

5. Interfaces with the Protective Measures Coordinator when the NRC Site Team arrives at the EOF.

3.0 RESPONSIBILITIES (continued)

3.5 EOF Emergency Security Manager (ESM)

1. Establishes facility security and personnel accountability throughout the emergency.

§3 **2.** Ensures the requirements of the Fitness for Duty rule are met by persons reporting for duty in EOF positions.

3. Coordinates with the TSC Security Supervisor to support any on-site security functions and in determining the need to suspend safeguards.

§2 **4.** Provides the interface with local law enforcement and rescue agencies.

5. Tracks the status of all site personnel transported to off-site medical facilities.

6. Interfaces with the Safeguards/Security Coordinator when the NRC Site Team arrives at the EOF.

3.6 EOF Administrative Supervisor

1. Oversees all administrative services such as:

CAUTION

¶1 Documents, such as instructions, procedures, drawings, and software which provide guidance, specifications, or requirements affecting the quality of safety-related structures, systems, and components, shall be controlled.

A. Availability of controlled documents

B. Reproduction and distribution services

C. Support for telephone and telecopy operations

2. Makes arrangements for long term facility operations including personnel, supplies, and equipment.

3.0 RESPONSIBILITIES (continued)

3.7 EOF RM OPS Advisor/Logkeeper

1. Assists the RM in all assigned responsibilities including off-site notifications and Protective Action Recommendations (PARs).

2. Fulfills the role of RM in the "bullpen" when the RM is in conference.

3. Maintains the RM Logbook which serves as the primary facility log.

3.8 Nuclear Division Duty Officer (NDDO)

1. This position is not required to be in the EOF.

2. Maintains 24 hour a day on-call availability.

3. Serves as a technical advisor to the Emergency Control Officer (ECO).

4. Performs the duties of the ECO if one can not be located.

5. Establishes initial contact with INPO.

3.9 Emergency Control Officer (ECO)

§2 **1.** Acts as the Chief Nuclear Officer in his/her absence. /R5

§2 **2.** Serves as the official spokesperson for the Nuclear Division.

3. Approves all press releases for the Nuclear Division.

3.10 Governmental Affairs Manager (GAM)

1. This position is not required to be in the EOF.

§2 **2.** Provides liaison function between the ECO and public officials.

3. Works with the State Coordinating Officer (SCO) and Governor's Advisor.

3.0 RESPONSIBILITIES (continued)

3.11 Risk Manager

1. This position is not required to be in the EOF.

2. Provides liaison to the nuclear insurance industry.

3.12 EP Manager

1. This position is not required to be in the EOF.

2. Provides emergency preparedness program expertise to the RM and other EOF staff as necessary.

3.13 EOF Emergency Information Manager (EIM)

1. Delegates responsibility for verbal and written communication as needed.

2. Determines when an emergency is serious enough to activate the Corporate Communications (CC) Nuclear Emergency Plan (CCNEP), including initiating notifications and calling for additional communications support as needed.

3. Calls for the activation of an Emergency News Center (ENC), after consulting with the ECO.

4. Invites Federal, State and County public information officers to respond to ENC where information can be jointly provided to the news media.

5. Declares the ENC operational, in coordination with the ENC Manager and ECO.

6. Ensures that technical advisors are assigned to the County Emergency Operations Centers (EOCs) and that contact is established.

4.0 DEFINITIONS

4.1 Emergency Planning Zones:

1. **Plume Exposure Pathway (10 mile EPZ)** - that area, approximately 10 miles in radius from the center of the plant, for which detailed plans are made to protect people from exposure to a plume containing radioactive materials.

2. **Ingestion Exposure Pathway (50 mile EPZ)** - that area, approximately 50 miles in radius from the center of the plant, for which plans are made to protect people from ingestion of food-stuffs and water contaminated by radioactive materials released from the plant.

4.2 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 development of PARs **AND** the RM has completed a turnover with the EC for assumption of these functions.

3. **Fully Staffed** - the complete complement of personnel is present in the facility.

4.3 FPL Emergency Recall System (ERS) - the call-out system used as the means of off hours call-out, as described in EPIP-03, Emergency Response Organization Notifications/Staff Augmentation.

4.4 Protective Actions Implemented (PAIs) - actual protective action instructions given to the general public based on the evaluation, by State and County officials, of the Protective Action Recommendations (PARs) received from FPL (i.e., actual shelter and/or evacuation response actions taken by the public).

4.5 Risk Counties - those counties located within the 10 mile Emergency Planning Zone of a nuclear plant. For St. Lucie Plant, the risk counties are **St. Lucie and Martin**.

4.0 DEFINITIONS (continued)

4.6 State Agencies:

1. **Florida Division of Emergency Management (DEM)** - headquartered in Tallahassee, responsible for the State of Florida Radiological Emergency Management Plan for Nuclear Power Plants.

2. **Florida Department of Health (DOH), Bureau of Radiation Control** - headquartered in Orlando, responsible for radiological monitoring and dose assessment.

4.7 **"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).

5.0 INSTRUCTIONS

NOTE

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

5.1 Report when notified to the EOF as quickly as possible if available and able to safely do so.

5.2 Upon arrival at the facility, each EOF emergency responder should perform the following:

1. Present Security with a form of picture identification.
2. Inform Security of your "fitness for duty" status.
3. Obtain and wear a position specific access badge available in the Security area as you enter the building.
   - **A.** Place your name on the badge with a dry erase marker or in any other non-permanent manner.
4. Sign-in on the Staffing Board located on the south wall of the "bullpen" (room 101).
5. Obtain position specific notebook with procedural checklists, forms and instructions.
6. Make your workstation/location operational.
7. Notify your supervisor of your readiness status.

¶1

NOTE

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

5.3 Communications to the plant should be made through the phonetalkers and/or the TSC.

5.0 INSTRUCTIONS (continued)

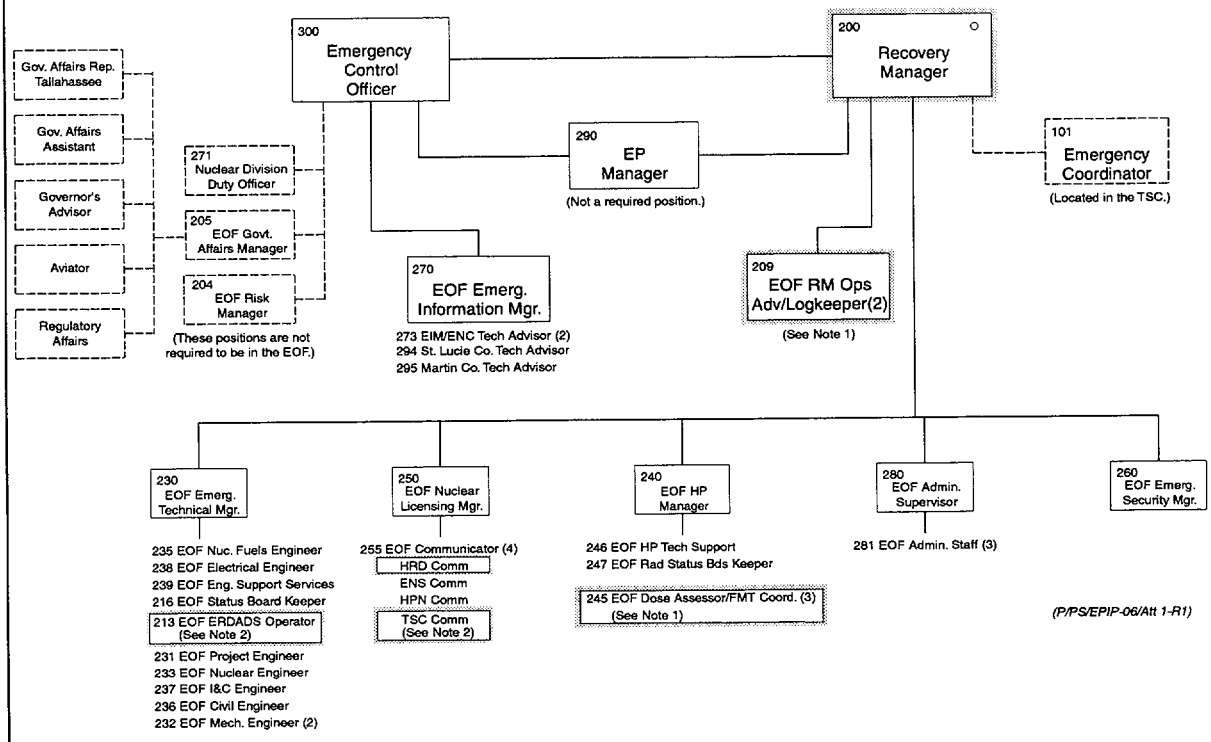
5.4 During facility briefings, stop what you are doing, pay attention and contribute as requested.

5.5 Upon termination of the event:

1. All EOF 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 EPIPs and attachments, logs, notification forms and other notes and data sheets, and forward this material to Emergency Planning.

ATTACHMENT 1
EOF EMERGENCY RESPONSE ORGANIZATION
(Page 1 of 1)



Autodialer position numbers are listed with position titles.

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

Note 1- One needed for minimum staffing.

Note 2- Either an ERDADS Operator OR a TSC Communicator is acceptable to meet the minimum staffing recommendation.

☐ Indicates minimum staffing to declare the facility operational.

ATTACHMENT 2
RECOVERY MANAGER CHECKLIST
(Page 1 of 4)

CAUTION
The mandatory function of the EOF is to assume responsibility for making notifications and PARs. The RM should assume this responsibility as soon as practicable, but not before the EOF staff is fully prepared to do so.

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 if minimum staff is available (refer to Attachment 2A, EOF Emergency Response Organization and Shift Staffing). _____

3. Determine from the Ops Advisor that EOF communications are available. _____

4. Notify the EC of the EOF's readiness to take responsibility for off-site notifications (State, Counties and NRC) and PARs. _____

5. Based on concurrence from the EC, declare EOF operational (steps 3 & 4 must be completed). Operational at _____. _____

6. Notify the following that the EOF is operational:

   a. EC _____

   b. EOF staff _____

   c. State and local authorities _____

   d. NRC _____

   e. ECO _____

ATTACHMENT 2
RECOVERY MANAGER CHECKLIST
(Page 2 of 4)

A. FACILITY ACTIVATION (continued) — INITIAL

7. Request that all facility clocks be synchronized with ERDADS. In case of ERDADS failure, synchronize with the affected Control Room.

8. EOF fully staffed. _____

B. FACILITY OPERATION

1. Establish briefing frequency for facility updates. _____

2. Direct an RM OPS Advisor/Logkeeper to keep Logbook. _____

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

   a. Off-site notifications for both State/County and the NRC are approved and provided in a timely manner and in accordance with EPIP-08, Off-site Notifications and Protective Action Recommendations.

   b. Develop/adjust and approve PARs, as necessary in accordance with EPIP-08 and with the assistance of the EOF RM OPS Advisor/Logkeeper and the EOF HP Manager.

   c. Provide PAR Briefings to State and County personnel in the EOF with the assistance of the EOF RM OPS Advisor/Logkeeper and EOF HP Manager and using Attachment 2C, State and County PAR Briefing Guideline.

CAUTION
The RM shall not delegate the following:

- State Notification Form approval
- Recommendation of Protective Actions
- Expenditure of Funds
- Policy Setting

   d. Request an RM OPS Advisor/Logkeeper act as temporary relief when leaving the "Bull Pen".

ATTACHMENT 2
RECOVERY MANAGER CHECKLIST
(Page 3 of 4)

B. FACILITY OPERATION (continued)

3. (continued)

e. Ensure that Protective Actions Implemented (PAIs) are posted in the EOF and reported to the EC.

f. Maintain facility command and control.

g. Conduct facility briefings (use Attachment 2B to this attachment).

h. Contact the EC frequently to maintain awareness of plant conditions and actions. (The "Videolink may be used for this purpose.)

§2 i. Provide support/resources to the EC from other FPL sources, nuclear power plants and/or vendors.

§2 j. Review emergency dose extensions with the EC (use Attachment 12A, Exposure Limits for Emergency Response Personnel.

k. Request additional support as necessary.

l. Routinely review status with the ECO.

m. Establish policies when situations arise where no company policy is in place to support the actions that will aid in mitigation of the emergency.

n. Expend funds as necessary to cope with emergency situations. (Solicit authorization from the Chief Nuclear Officer) /R5

o. Interface with the NRC Director of Site Operations (DSO) and other members of the Site Team, as required.

ATTACHMENT 2
RECOVERY MANAGER CHECKLIST
(Page 4 of 4)

B. FACILITY OPERATION (continued) — INITIAL

4. Direct the EOF Administrative Supervisor to establish the capability for 24 hour operation of the EOF. _____

§2 5. De-escalate the emergency classification to Site Area Emergency or lower class (use Attachment 2D, De-escalation Guidelines). _____

6. Initiate the recovery plans (use Attachment 2E, Recovery Planning). _____

C. FACILITY CLOSEOUT AND RESTORATION

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

§2 1. Direct Licensing to prepare the Incident Report for submittal to DEM and NRC (within 24 hours after termination of an Alert or higher emergency event). _____

2. All facility activities closed out. _____

3. All paperwork collected. _____

4. All equipment and supplies returned to pre-activation condition and/or location. _____

5. Provided all completed paperwork (not bound in the position notebook) to Emergency Planning. _____

6. Returned position notebook to RM office. _____

ATTACHMENT 2A
EOF ERO SHIFT STAFFING*

(Page 1 of 1)

Shift*: _____ **Hours:** _____ **To:** _____

_____
***Recovery Manager**

_____
***Ops Advisor**

_____
Ops Advisor

_____
Nuclear Licensing Manager

_____
***EOF Communicator (HRD)**

_____
EOF Communicator (ENS)

_____
EOF Communicator (HPN)

_____
***EOF Communicator (TSC)**

_____
** EP Manager

_____
Emergency Control Officer

_____
**Nuclear Division Duty Officer

_____
**Risk Manager

_____
**Gov. Affairs Manager

_____
HP Manager

_____
HP Tech Support

_____
***Dose Assessor/FMT Coord**

_____
Dose Assessor/FMT Coord

_____
Dose Assessor/FMT Coord

_____
Rad Status Brd Kpr

_____
Admin Supervisor

_____
Admin Staff

_____
Admin Staff

_____
Admin Staff

_____
Emergency Info. Manager

_____
EIM/ENC Tech Adv

_____
EIM/ENC Tech Adv

_____
St. Lucie County Tech

_____
Martin County Tech Adv

Corp Comm / ENC Staff

_____ _____

_____ _____

_____ _____

_____ _____

_____
Emergency Technical Manager

_____
Project Eng

_____
Nuclear Eng

_____
I&C Eng

_____
Civil Eng

_____
Mechanical Eng

_____
Mechanical Eng

_____
Nuc Fuels Eng

_____
Electrical Eng

_____
Plant Status Brd Kpr

_____
***ERDADS Oper**

_____
Emergency Security Manager

* Recommended minimum staffing in bold

Acceptable alternates for recommended minimum staffing:
Recovery Manager - Designated alternates in ERD.
RM OPS. Advisor - Any responder with active or past operating license or equivalent (RO, SRO, SRO Cert) at PSL or PTN.
HRD Communicator - Any responder
ERDADS Operator - Any responder with working familiarity with ERDADs computer
TSC Communicator - Any responder with plant technical background
Dose Assessment Coordinator - Any responder trained in radiological assessment.

** Optional staffing (not typically EOF responders)

*** Long term staffing, refer to the St. Lucie Plant Emergency Response Directory (ERD) for position alternates.

ATTACHMENT 2B
EOF STAFF BRIEFING/UPDATE AGENDA
(Page 1 of 2)

TIME: _____

NOTE

1. Updates should occur approximately every 30 minutes. Significant changes in events should be announced promptly.
2. Briefings should not exceed 10 minutes.
3. Reference in RM Log and retain for archival.

Emergency Classification:

Unit 1 Status:

Unit 2 Status:

Current Information:

NOTE

Take the time necessary to explain events at the plant.

1. Classification changes
2. Radiological release occurrence or termination (this includes significant changes in source term or meteorological data)
3. Loss or restoration of significant equipment and/or system, such as loss of make-up capability, containment failure, etc.
4. Changes to PARs or to Protective Actions Implemented (PAIs)
5. Injured/Contaminated Personnel
6. Current mission(s) of EOF, assign task(s), as necessary.

ATTACHMENT 2B
EOF STAFF BRIEFING/UPDATE AGENDA
(Page 2 of 2)

Other Information (Request input/update information from other representatives. Remind contributors to be brief and limit comments to significant new information.)

1. Health Physics Representative:

2. Engineering Representative:

3. Security Representative:

4. State Representative:

   A. DEM:

   B. DOH:

5. St. Lucie County Representative:

6. Martin County Representative:

7. NRC Representative:

ATTACHMENT 2C

¶5 **STATE AND COUNTY PAR BRIEFING GUIDELINE**

(Page 1 of 2)

Once the EOF is declared operational, the Recovery Manager has primary responsibility for development of Protective Action Recommendations (PARs). PARs are included in the State Notification Form. Notification of State and County officials is accomplished through the conduct of PAR Briefings.

Specific Guidance

1. State and County PAR Briefings shall be conducted only if the following is true:

   A. The EOF has been declared operational.

   B. The following agencies are represented in the briefing:

      (1) Florida DEM

      (2) Florida BRC

      (3) St. Lucie County DPS

      (4) Martin County DES

2. The RM shall approve the Florida Nuclear Plant Emergency Notification Form and the Supplemental Data Sheet.

3. The RM shall review the information from the above notification forms with State and County representatives during the PAR Briefing.

4. Following initial review and discussion, the RM should return to the "Bull Pen", leaving the EOF RM OPS Advisor and EOF HP Manager, and others as needed, to answer any technical questions or to provide additional clarification.

5. Protective Actions - Implementation

   A. The State and Counties will determine resulting protective actions to implement.

ATTACHMENT 2C

¶5 **STATE AND COUNTY PAR BRIEFING GUIDELINE**

(Page 2 of 2)

5. (continued)

   B. As soon as practical after the PAR Briefing, the RM shall consult with DEM and County representatives in the EOF concerning the actual Protective Actions Implemented (PAIs).

   C. The State Coordinating Officer (SCO) should announce the PAIs to the EOF staff (the RM should make the announcement if the SCO is unavailable).

   D. Once determined, the PAIs (using "areas") should be recorded in the RM Logbook and posted in the EOF.

   E. The RM should notify the EC of the PAIs.

ATTACHMENT 2D
DE-ESCALATION GUIDELINES
(Page 1 of 1)

The following guidelines provide points to consider when de-escalation may be appropriate.

1. Review the Emergency Classification Tables in EPIP-01 with the Emergency Coordinator to assure that the classification criteria to enter the event are no longer applicable.

2. Verify additionally that the plant is stable, under control, and trend or prognosis indicates that improvement is the most likely prospect. Consider the following:

   a. Subcriticality
   b. Core Cooling Mode
   c. Heat Sink Mode
   d. RCS Pressure Boundary Integrity
   e. Inventory Control (Primary and Secondary Coolant)

3. Verify there is no foreseeable likelihood of a significant uncontrolled release. Consider containment pressure, containment/auxiliary building radiation levels, waste gas storage tank pressures and activities, and containment water volumes and activities.

4. Verify that the long-term staffing for both the site and the EOF is organized and in place as appropriate for the event.

NOTE

De-escalation of the event does not mean that protective actions for the general public would terminate. This issue should be addressed separately and special attention should be given via the ENC to ensure that public information channels are aware of the difference.

$\S_2$ 5. Verify that the Emergency Coordinator, Emergency Control Officer, DEM State Coordinating Officer, County Emergency Management Directors and the NRC are informed that de-escalation of the emergency classification is in order.

ATTACHMENT 2E
§4 RECOVERY PLANNING
(Page 1 of 1)

NOTE
The Florida Power & Light Company St. Lucie Plant Recovery Plan and other FPL company plans may be referenced as guidance to assist in the organization of recovery activities.

A. Formulate general plans for recovery operations using a typical outage management/work control format and including the following additional considerations:

1. Identification of organization, personnel, and facilities to be used in recovery operations.

   a. Portions of the ERO continue to function during recovery operations including lead emergency response managers:

      1. EC/Plant General Manager

      2. RM/Site Vice President

   b. Emergency response facilities (TSC, OSC, EOF) may be used for recovery activities.

2. Identification of external (FPL and industry) assistance for inclusion in the recovery organization.

3. Identification of interfaces between FPL organizations, off-site emergency authorities, regulatory agencies, and other applicable organizations.

4. Identification of interfaces between FPL and the news media.

   a. Corporate Communications organization used during the emergency may remain in place, if deemed appropriate.

ATTACHMENT 3
EOF RM OPS ADVISOR/LOGKEEPER CHECKLIST
(Page 1 of 3)

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. Assist the RM in declaring the EOF operational by verifying the following:

   a. Minimum staff available _____

   b. Communications equipment, procedures and other supplies are available, checked and ready for use. _____

      - Commercial phone as backup to State/County and NRC Notifications (DO NOT test call HRD or ENS).
      - Extension phones in EOF.
      - EOF personnel are verifying procedures in position notebooks.

   c. Minimum staff prepared to accomplish mandatory facility functions _____

   d. EC turnover completed _____

B. FACILITY OPERATION

1. Initiate the RM Logbook (use Attachment 3A, Typical Information to be Included in the RM Logbook). _____

2. Review Attachment 2, Recovery Manager Checklist. _____

ATTACHMENT 3
EOF RM OPS ADVISOR/LOGKEEPER CHECKLIST
(Page 2 of 3)

B. FACILITY OPERATION (continued)

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

   a. Routinely review Emergency Operating Procedures (EOPs) progress with the RM

   b. Continue to look ahead at possible emergency classifications and PARs

   c. Maintain the RM Logbook

   d. Assist the RM in preparing notification forms for the State and NRC, as necessary and developing PARs (use EPIP-08, Off-site Notifications and Protective Action Recommendations).

CAUTION
Responsibilities not delegable by the RM:

- State Notification Form approval
- Recommendation of Protective Actions
- Expenditure of Funds
- Policy setting

   e. Temporarily relieve the RM in the "Bull Pen" when RM is in conference

   f. Support the RM as needed or requested

   g. Provide operations status during PAR briefings

   h. Serve as an alternate interface to the NRC DSO and other members of the NRC Site Team

ATTACHMENT 3
EOF RM OPS ADVISOR/LOGKEEPER 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. Ensured all facility activities closed out. _____
2. Ensured all paperwork collected. _____
3. Closed out the RM Log, returned the logbook to the RM position notebook. _____
4. Provided all completed paperwork (not bound in the position notebook) to Emergency Planning. _____
5. Returned position notebook to RM office. _____

ATTACHMENT 3A
TYPICAL INFORMATION TO BE INCLUDED IN THE RM 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 RM Logbook:

1. Time of each entry.
2. Emergency classification changes.
3. Notable changes in plant conditions.
4. Protective Action Recommendations and Protective Actions Implemented.
5. Summary of any directions given to other emergency responders (who was told what to do when).
6. Summary of discussions/updates with Federal, State and Local agencies.
7. Summary of discussions/updates with Emergency Managers.
8. A detailed explanation of changes to or establishment of new company policy(s).
9. Significant information, events and actions taken relative to the emergency period should be recorded.

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 logbook.

ATTACHMENT 4
EOF EMERGENCY TECHNICAL MANAGER CHECKLIST
(Page 1 of 3)

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. Verify that the following positions are filled:

   a. EOF ERDADS Operator (minimum staff) _____

   b. EOF Nuc Fuels Engineer _____

   c. EOF Electrical Engineer _____

   d. EOF Project Engineer _____

   e. EOF Nuclear Engineer _____

   f. EOF I&C Engineer _____

   g. EOF Civil Engineer _____

   h. EOF Mech Engineer _____

   i. EOF Mech Engineer _____

   j. EOF Status Board Keeper _____

ATTACHMENT 4
EOF EMERGENCY TECHNICAL MANAGER CHECKLIST
(Page 2 of 3)

B. FACILITY OPERATION — INITIAL

1. Initiate the Engineering Logbook. _____
2. Obtain System availability status from System Operations. _____
3. Steps to occur continually while the facility is in operation:
   a. Review need for engineering support with the RM.
   b. Log requests for engineering support.
   c. Assign engineering tasks through the EOF Project Engineer.
   d. Participate in facility briefings conducted by the RM by providing status of engineering issues and progress of technical assistance. The form provided in Attachment 4A, ETM Activities List may be used to organize briefing information.
   e. Ensure plant parameter and sequence of events data are maintained current and are correct/ reasonable.
   f. Manage engineering activities in support of the TSC.
   g. Review the redundancy of critical plant equipment.
   h. Evaluate the long term plant actions to mitigate the consequences of the event.
   i. Interface with the EOF Health Physics Manager to resolve issues involving plant components effecting plant releases.
   j. Support the RM during PAR Briefings to the State and Counties.

ATTACHMENT 4
EOF EMERGENCY TECHNICAL MANAGER CHECKLIST
(Page 3 of 3)

B. FACILITY OPERATION (continued) INITIAL

3. (continued)

k. Interface with the NRC Reactor Safety Coordinator when the NRC Site Team arrives at the EOF.

l. Promptly inform the RM of engineering recommendations, determinations, or analysis results.

m. Support recovery planning as requested by the RM by evaluating long-term plant actions to mitigate the consequences of the event.

C. FACILITY CLOSEOUT AND RESTORATION

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

1. All engineering tasks/projects are completed or assigned to a Condition Report. _____

2. All engineering paperwork is collected. _____

3. All documents, equipment, and supplies returned to pre-activation condition and/or location. _____

4. Closed out the Engineering Logbook. _____

5. Provided all completed paperwork (not bound in the position notebook) to the RM. _____

6. Returned position notebook to the RM office. _____

ATTACHMENT 4A
ETM ACTIVITIES LIST

Item	Problem Description	Probable Cause	ETM Recommendation	Status

ATTACHMENT 5
EOF PROJECT ENGINEER CHECKLIST
(Page 1 of 3)

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. Notify the ETM when full engineering complement (as listed below) is available: _____

   a. EOF ERDADS Operator

   b. EOF Nuc Fuels Engineer

   c. EOF Electrical Engineer

   d. EOF Nuclear Engineer

   e. EOF I&C Engineer

   f. EOF Civil Engineer

   g. EOF Mech Engineer (2)

   h. EOF Status Board Keeper

3. Assign the following set-up items to the Engineering Staff: _____

   a. Synchronize clocks in the Engineering area with ERDADS. In case of ERDADS failure, synchronize with the affected Control Room.

   b. Obtain pens, pencils, paper and other necessary supplies from the Administration area.

ATTACHMENT 5
EOF PROJECT ENGINEER CHECKLIST
(Page 2 of 3)

B. FACILITY OPERATION

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

   a. Review requests for Engineering Support (use Attachment 5A, Engineering Task and Technical Response Form) with the ETM.

   b. Assign engineering tasks.

   c. Enter engineering task assignments on Attachment 5B, Engineering Task List.

   d. Oversee progress on assigned engineering tasks

   e. Post tasks/projects being worked and status on status board in ETM office.

   f. Review completed work for accuracy.

   g. File completed task sheets (Attachment 5A, Engineering Task and Technical Response Form).

   h. Serve as alternate interface to NRC Reactor Safety Coordinator.

   i. Promptly inform the ETM of engineering recommendations, determinations or results of analyses.

   j. Provide a copy of the current Attachment 5B, Engineering Task List, to the ETM for facility status meetings/briefings.

   k. Support the EOF ETM in establishing 24-hour staffing by completing Attachment 5C, Engineering Shift Staffing Schedule and provide a copy of the completed form to the EOF Administrative Supervisor.

ATTACHMENT 5
EOF PROJECT 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. Identified all engineering tasks/projects to the ETM for final action(s). _____

2. Supported restoration of all documents, equipment, and supplies to pre-activation condition and/or location. _____

3. Provided all completed paperwork (not bound in the position notebook) to the ETM. _____

4. Returned position notebook to the RM office. _____

ATTACHMENT 5A
ENGINEERING TASK AND TECHNICAL RESPONSE FORM
(Page 1 of 1)

TO:_____ PRIORITY: 1 2 3 NO:_____

SUBJECT:	
DATE & TIME RECEIVED:	REQUESTER:
REQUEST:	
RESPONSE:	

BY:	VERIFIED:
PROJECTS:	
EMERGENCY TECHNICAL MANAGER:	
DATE & TIME:	

ATTACHMENT 5B
ENGINEERING TASK LIST
(Page 1 of 1)

To: Recovery Manager Date:____/____/____

From: Emergency Technical Manager Time:_____

TASK NO.		UNIT NO.	PRIORITY	DATE & TIME COMPLETE
	Task Title:_____ _____ _____ _____ Assigned To:_____			
	Task Title:_____ _____ _____ _____ Assigned To:_____			
	Task Title:_____ _____ _____ _____ Assigned To:_____			
	Task Title:_____ _____ _____ _____ Assigned To:_____			
	Task Title:_____ _____ _____ _____ Assigned To:_____			

ATTACHMENT 5C
ENGINEERING SHIFT STAFFING SCHEDULE
(Page 1 of 1)

Emergency Technical Manager Approved:_____

	SHIFT 1	SHIFT 2	SHIFT 3
	Time_____to_____	Time_____to_____	Time_____to_____
	Date_____to_____	Date_____to_____	Date_____to_____
Emergency Tech. Mgr. EOF Ph #_____	_____	_____	_____
Projects EOF Ph #_____	_____	_____	_____
Plant Status Board EOF Ph #_____	_____	_____	_____
Nuclear EOF Ph #_____	_____	_____	_____
Mechanical EOF Ph #_____	_____	_____	_____
Electrical EOF Ph #_____	_____	_____	_____
I&C EOF Ph #_____	_____	_____	_____
Civil EOF Ph #_____	_____	_____	_____
Fuels EOF Ph #_____	_____	_____	_____
Other EOF Ph #_____	_____	_____	_____
	_____	_____	_____

ATTACHMENT 6
EOF ENGINEER CHECKLIST
(Page 1 of 2)

NOTE

1. This checklist applies to the following positions:

EOF Nuclear Engineer	EOF Nuclear Fuels Engineer
EOF Mechanical Engineer	EOF Civil Engineer
EOF I&C Engineer	EOF Electrical Engineer

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

		INITIAL
A.	FACILITY ACTIVATION	
1.	Refer to section 5.0 of this procedure (included in the position notebook) and review the general instructions.	_____
2.	Identify availability to the EOF Project Engineer.	_____
B.	FACILITY OPERATION	

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

   a. Work tasks assigned by the EOF ETM or EOF Project Engineer.

   b. Confer with other EOF personnel as needed to complete problem resolutions.

   c. (Nuclear Fuels) perform core damage assessment in accordance with EPIP-11, Core Damage Assessment.

   d. (Nuclear Fuels) provide core damage assessment results to the EOF ETM and EOF Health Physics Manager.

   e. (Nuclear Fuels) Support Severe Accident Management Guidelines evaluations being conducted in the Technical Support Center (TSC).

   f. Keep the EOF Project Engineer apprised of status of working tasks/projects.

ATTACHMENT 6
EOF ENGINEER CHECKLIST
(Page 2 of 2)

B. FACILITY OPERATION (continued) INITIAL

1. (continued)

   g. Document assessment/review and recommendation/ response on Attachment 5A, Engineering Task and Technical Response Form, for each task/project.

   h. Evaluate posted plant parameter data for accuracy.

   i. Ensure sequence of events board has sufficient detail to understand events in progress.

C. FACILITY CLOSEOUT AND RESTORATION

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

1. Completed all assigned tasks, as appropriate. _____

2. Returned all documents, equipment, and supplies to pre-activation condition and/or location. _____

3. Provided all completed paperwork (not bound in the position notebook) to the EOF Project Engineer. _____

4. Returned position notebook to the RM office. _____

ATTACHMENT 7
EOF ERDADS OPERATOR CHECKLIST
(Page 1 of 2)

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. Identify availability to the EOF Project Engineer. _____

B. FACILITY OPERATION

CAUTION
Ensure data is being collected for the affected unit. Each unit has predesignated ERDADS terminals, one in the engineering area and one in the dose assessment area.

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

   If ERDADS is inoperable or printouts are not available, Then:

   a. Assist the EOF Communicator (to TSC) in collecting plant parameter and radiological data by completing Attachment 10B (Plant Data Sheet). _____

   b. Contact TSC ERDADS Tech to report the problem. _____

ATTACHMENT 7
EOF ERDADS OPERATOR CHECKLIST
(Page 2 of 2)

B. FACILITY OPERATION (continued) INITIAL

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

   a. Callup EPIP screens and additional data as requested, refer to Attachment 7A, ERDADS Data Acquisition.

   b. Provide the following printouts to the EOF Administrative Staff:

      1. St. Lucie EOF Data Sheet (EF 1/2).

      2. Radioactive Gaseous Source Terms (RG 1/2).

      3. Other screens, as requested.

   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 the EOF ETM and dose assessment, as appropriate.

   e. Refer to Attachment 7B, ERDADS Data Points, to this attachment for a description of ERDAD 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 pre-activation condition per the instructions on the terminal. _____

2. Provided all completed paperwork (not bound in the position notebook) to the RM. _____

3. Returned position notebook to the RM office. _____

ATTACHMENT 7A
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 EOF - **EF (1/2)** (Safety Functions and Equipment Status)

3. Radiological Data -

Display: **RG (1/2)** (Radiation Gaseous Source Term) **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)

ATTACHMENT 7A
ERDADS DATA ACQUISITION
(Page 2 of 3)

I. DATA ACQUISITION (continued)

A. (continued)

5. To access data -

1 - Press "CLEAR"
2 - Type in "Pup Unit (1/2)"
3 - Press "EXEC"ute, top of screen will read "Unit change is complete" or "Current Unit is same as entered Unit"
4 - Press "EPIP"
5 - 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 -
1 - Press "CLEAR"
2 - Type in screen designation, e.g., "**RG1**"
3 - Press "DISPLAY"

B. TSC Communicator - The TSC Communicator 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 exhaust fans 6, 7, 8, 9, 10, 15, 16, and 17.

ATTACHMENT 7A
ERDADS DATA ACQUISITION
(Page 3 of 3)

II. ERDADS - COLOR/SYMBOL CONVENTIONS

Color/Symbol	Explanation[1]
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

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

ATTACHMENT 7B
¶₂ 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: • 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.

ATTACHMENT 7B
¶₂ ERDADS DATA POINTS
(Page 2 of 8)

POINT DESCRIPTION	PT ID	POINT NAME	TYPE CALCULATION	NOTES
RCS Pressurizer Level (%)	QA0001-1/2	PRZR LVL	Average	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: • 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. The top of the heaters is 73.98 inches above the lower top centerline.
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	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: 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. • 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.

ATTACHMENT 7B
¶₂ ERDADS DATA POINTS
(Page 3 of 8)

POINT DESCRIPTION	PT ID	POINT NAME	TYPE CALCULATION	NOTES
Avg. Core Exit Temperature (deg. F)	QA0003-1/2	Temp. Core Ex.	Average	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: • 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.
Reactor Vessel Level (%)	Unit 1: QA0004-1 Unit 2: RLEV H-2 RLEV P-2		Minimum	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. 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. 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.

ATTACHMENT 7B
¶2 ERDADS DATA POINTS
(Page 4 of 8)

POINT DESCRIPTION	PT ID	POINT NAME	TYPE CALCULATION	NOTES
Reactor Vessel Level % (continued)				Unit 1 Level Information: Head and Plenum together
				Unit 2 Level Information: Head separate from Plenum

Sensor	Location* (* in. to fuel alignment plate)	Level Segment (%)	Value if Uncovered (%)
None			100
1	186 1/4	20	80
2	144 3/8	19	61
3	108	18	43
4	71 5/8	14	29
5	50 5/8	10	19
6	29 5/8	7	12
7	19 5/8	5	7
8	10 5/8	7	0

Sensor	Location* (* in. to fuel alignment plate)	Level Segment (%)	Value if Uncovered (%)
None			100
1	170 1/2	52	48
2	140 3/4	28	20
3	111 1/8	20	0
None			100
4	98 5/8	18	82
5	74 5/8	21	61
6	53 5/8	20	41
7	32 5/8	19	22
8	12 5/8	22	0

ATTACHMENT 7B
¶2 ERDADS DATA POINTS
(Page 5 of 8)

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	Ctmnt 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: • 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.

ATTACHMENT 7B
¶2 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	This parameter is a containment sump wide range instrument. It is derived from Containment Sump Level signals LT07-13A-1/2 and LT07-13B-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. • 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	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: • 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	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 21 inches above the bottom of the U tubes.
SG Level B WR (%)	LT9022-1/2	SG Level B	N/A	This parameter 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 21 inches above the bottom of the U tubes.

ATTACHMENT 7B
½ 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 Algorthim	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	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: • 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. Tank bottom refers to zero gallons.

ATTACHMENT 7B
¶2 ERDADS DATA POINTS
(Page 8 of 8)

POINT DESCRIPTION	PT ID	POINT NAME	TYPE CALCULATION	NOTES
CHRRM. Channel (R/HR)	Unit 1: RE 26-58-1 (A Channel) RD 26-59-1 (B Channel) Unit 2: RIM 26-40-2 (A Channel) RIM 26-41-2 (B Channel)	Cntmnt. Rad	Maximum	The high containment radiation instruments for Unit 1 are the "A" side monitor RE26-58-1 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. 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.

ATTACHMENT 8
EOF STATUS BOARD KEEPER CHECKLIST
(Page 1 of 2)

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. Identify availability to EOF Project Engineer. _____

B. FACILITY OPERATION

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

   a. Obtain the following ERDADS data sheets (printouts) from the EOF Administrative Staff:

      1. St. Lucie EOF Data Sheet (EF 1/2).

      2. Radioactive Gaseous Source Terms (RG 1/2).

   b. Update status boards with new ERDADS data.

   c. Verify that all data has been accurately transferred to the status boards.

   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.

ATTACHMENT 8
EOF STATUS BOARD KEEPER CHECKLIST
(Page 2 of 2)

B. FACILITY OPERATION (continued)

1. (continued)

   d. (continued)

      4. Injured personnel status.

      5. Other items of relevant interest.

   e. Make corrections, when identified, by circling the corrected data.

   f. 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.

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 cleared and returned to pre-activation condition. _____

2. Provided all completed paperwork (not bound in the position notebook) to the EOF Project Engineer. _____

3. Returned position notebook to the RM office. _____

ATTACHMENT 9
EOF NUCLEAR LICENSING MANAGER CHECKLIST
(Page 1 of 3)

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. Verify that the following positions are filled: _____

   a. EOF Communicator (4)

NOTE
Positions should be filled in this order.

   1. Hot Ring Down (HRD) Phone
   2. Emergency Notification System (ENS)
   3. TSC (direct line) (should be filled second if no ERDADS Operator is available)
   4. Health Physics Network (HPN)

B. FACILITY OPERATION

1. Initiate the Licensing Logbook (use Attachment 9A, Typical Information to be included in the Logbook). _____

¶3 2. Verify INPO was notified. _____

3. Ensure backup communications devices are available and operable (work with the EOF Administrative Supervisor).

ATTACHMENT 9
EOF NUCLEAR LICENSING MANAGER CHECKLIST
(Page 2 of 3)

B. FACILITY OPERATION (continued) INITIAL

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

   a. Manage/supervise activities of EOF communicators (HRD, ENS, TSC, HPN).

   b. Ensure communications with the NRC (ENS, HPN) are logged by the communicators.

   c. Ensure coordination with INPO is maintained concerning industry assistance requests (if not being handled by the NDDO).

   e. Serve as primary liaison with the NRC once the Site Team arrives at the EOF, interfacing with the Emergency Response Coordinator.

      1. Ensure NRC work locations are functional.

      2. Coordinate the NRC interface with the FPL ERO, and State and County representatives in the EOF.

      3. Provide access to notification forms, press releases, and other information, as requested.

C. FACILITY CLOSEOUT AND RESTORATION

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

1. All communications links terminated. _____

2. All communications paperwork collected. _____

ATTACHMENT 9
EOF NUCLEAR LICENSING MANAGER CHECKLIST
(Page 3 of 3)

C. FACILITY CLOSEOUT AND RESTORATION (continued) — INITIAL

3. All documents, equipment, and supplies returned to pre-activation condition and/or location. _____

4. Closed out the Licensing Logbook. _____

5. Prepared Incident Report (format available in Florida Power & Light Nuclear Plant Recovery Plant) for review and approval by RM. _____

6. Provided all completed paperwork (not bound in the position notebook) to the RM. _____

7. Returned position notebook to the RM office. _____

ATTACHMENT 9A
TYPICAL INFORMATION TO BE INCLUDED IN THE 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 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 Logbook.

ATTACHMENT 10
EOF COMMUNICATOR CHECKLIST
(Page 1 of 4)

NOTE

1. This checklist applies to all EOF Communicator positions as follows:

   HRD Communicator — ENS Communicator
   TSC Communicator — HPN Communicator

2. 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. _____

NOTE

The first EOF Communicator to arrive at the EOF should identify himself/herself to the RM.

2. Identify availability to the EOF Licensing Manager. _____

3. Review Attachment 10A, Communications Guidelines. _____

4. (TSC) Request copy of the EC Log, completed notification forms (State and NRC) and checklists, and other pertinent information be transmitted to the EOF. _____

ATTACHMENT 10
EOF COMMUNICATOR CHECKLIST
(Page 2 of 4)

B. FACILITY OPERATION — INITIAL

1. (HRD) Complete turnover with TSC HRD Communicator, assume responsibility for State/County notifications. _____

2. (ENS) Complete turnover with TSC ENS Communicator, assume lead responsibility for NRC notifications. _____

3. (TSC) Establish direct line link with TSC. _____

4. (HPN) Establish connection on NRC HP conference bridge. _____

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

HRD Communications

a. Assist the RM with State and County notifications by:

1. Reviewing the State notification forms (the Florida Nuclear Plant Emergency Notification and the Supplemental Data Sheet, Attachments 1 and 2 respectively in EPIP-08, Off-site Notifications and Protective Action Recommendations) for completeness.

2. As necessary, ensuring Protective Action Recommendations (PARs) match the PARs Worksheet (see Attachment 3, Determination of Protective Action Recommendations (PARs) in EPIP-08).

3. Ensuring the RM has approved the form.

b. Transmit the notification forms in accordance with Appendix C, Notifications From the Emergency Operations Facility (EOF) in EPIP-08.

c. Request the EOF RM OPS Advisor/Logkeeper log notification times.

ATTACHMENT 10
EOF COMMUNICATOR CHECKLIST
(Page 3 of 4)

B. FACILITY OPERATION (continued)

5. (continued)

> **NOTE**
> Initial contact with the NRC requires use of the NRC Reactor Plant Event Notification Worksheet (Attachment 4 to EPIP-08) notification form. Control Room or TSC personnel may have already accomplished this task. The ENS Communicator will need to ensure that an initial NRC notification form has been completed.

ENS/HPN Communications

a. Maintain an open line of communication and a transmission log.

b. (ENS) Ensure notifications are initiated within 1 hour (immediately following State and County notification) of a classification/PAR change or other significant event. Refer to Appendix C in EPIP-08 if additional information is needed.

c. Request the EOF RM OPS Advisor/Logkeeper log notification times.

d. Log all questions asked by NRC.

e. Obtain answers to questions from appropriate EOF Manager.

f. Obtain RM approval prior to providing additional information to the NRC.

TSC Communications

a. Maintain an open line of communication with the TSC.

ATTACHMENT 10
EOF COMMUNICATOR CHECKLIST
(Page 4 of 4)

B. FACILITY OPERATION (continued) INITIAL

5. (continued)

   b. If ERDADS is out of service, obtain plant parameter and radiological data (use Attachment 10B, Plant Data Sheet and Radioactive Gaseous Source Terms) through phone conversation with the TSC (via the TSC EOF Communicator).

   c. Clarify any discrepant information with the TSC (via the TSC EOF Communicator), as requested.

C. FACILITY CLOSEOUT AND RESTORATION

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

1. All communication links (HRD, ENS, HPN, TSC) terminated. _____

2. All communications paperwork collected. _____

3. All phone equipment returned to pre-activation condition. _____

4. Provided all completed paperwork (not bound in the position notebook) to the EOF Nuclear Licensing Manager. _____

5. Returned position notebook to the RM office. _____

ATTACHMENT 10A
COMMUNICATIONS GUIDELINES
(Page 1 of 8)

I. General Guidelines

1. Always speak clearly, firmly, and with normal tone when using any communications system.

2. The sender and receiver shall be clearly identified.

3. Message text:

   a. Communication must be free of ambiguity. Slang terms shall 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 use low pressure safety injection pump instead of LPSI.

   c. The phonetic alphabet will be used to identify specific train, bus, channel, or equipment designations, not just letter identifier; for example, refer to the 1 Alpha 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	V Victor
E Echo	N November	W Whiskey
F Foxtrot	O Oscar	X X-ray
G Golf	P Papa	Y Yankee
H Hotel	Q Quebec	Z Zulu
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.

ATTACHMENT 10A
COMMUNICATIONS GUIDELINES
(Page 2 of 8)

I. **General Guidelines** (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 shall acknowledge the communication by giving a 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 shall be used for equipment identifiers.

   c. If the message receiver does not understand the message he/she shall ask for the message to be repeated.

   d. If an incorrect repeat-back is given, the message originator shall immediately correct the miscommunication with a statement such as, "WRONG", followed by restating the correct message.

   e. The message originator shall confirm the acknowledgement (repeat-back) with a statement such as, "That is correct".

5. Use of a Call Sign is not necessary when communicating with the HP Off-site Channel radio (station ID occurs every 30 minutes automatically).

6. The Call Sign should be communicated periodically when using the LGR.

ATTACHMENT 10A
COMMUNICATIONS GUIDELINES
(Page 3 of 8)

I. **General Guidelines** (continued)

7. Prior to transmission, ensure that information has been verified and approved by the appropriate authority, as necessary.

8. Ensure that any incoming pertinent information is provided to the Recovery Manager or an RM OPS Advisor/Logkeeper.

9. Maintain documentation of any significant information provided or received.

II. **Communications Systems**

1. HRD Communicator

§2 A. State Warning Point (SWP) Hot Ring Down Phone (HRD)

1. **This is the primary communications pathway to the State Warning Point and St. Lucie and Martin Counties.**

2. A self-verifying phone system which is initiated by entering the 3 digit code corresponding to the desired location of contact. The phone dialing location codes are available 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.

ATTACHMENT 10A
COMMUNICATIONS GUIDELINES
(Page 4 of 8)

II. **Communications Systems** (continued)

1. (continued)

§2 B. Commercial Telephone

1. **This is the first alternate communications pathway to the State Warning Point and St. Lucie and Martin Counties.**

2. EOF Telephone System

a. Long Distance Calls (off-network):

8+1+area code+seven digit number+authorization code (if prompted)

§2 C. Emergency Satellite Communications System (ESATCOM)

1. **This is the second alternate communications pathway to the State Warning Point and St. Lucie and Martin Counties.**

2. A backup communications system to the State and Counties. 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.

ATTACHMENT 10A
COMMUNICATIONS GUIDELINES
(Page 5 of 8)

II. **Communications Systems** (continued)

1. (continued)

§2 D. Local Government Radio (LGR) - CALL SIGN: KILO NOVEMBER GOLF ROMEO 8-7-4 (KNGR874)

1. **This is the third alternate communications pathway to the State Warning Point and St. Lucie and Martin Counties.**

2. A backup communications system to the Counties and indirectly to the State. The system has two low band radio frequencies. There are separate Motorola Command Series table 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 radios 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).

2. ENS Communicator

A. Emergency Notification System (ENS)

1. **This is the primary communications pathway to the NRC.**

2. The ENS is part of the NRC Emergency Telecommunications System (ETS). Initiate contact by dialing one of the phone numbers provided on the phone of in the St. Lucie Plant Emergency Response Directory (ERD). The ENS will become an open line of communication at an ALERT or higher emergency class. The TSC should maintain that open line until the EOF is adequately staffed, then both the TSC and EOF should stay on the line.

ATTACHMENT 10A
COMMUNICATIONS GUIDELINES
(Page 6 of 8)

II. **Communications Systems** (continued)

2. (continued)

B. Commercial Telephone

1. **This is the backup communications pathway to the NRC.**

2. EOF Telephone System

a. Long Distance Calls (off-network):

8+1+area code+seven digit number+authorization code (if prompted)

3. TSC Communicator

A. TSC Direct-line Telephone

1. This is a direct line to the Technical Support Center (TSC). Initiate contact by removing the handset from the cradle which will cause the phone in the TSC to ring. When the phone is answered, begin transmission. This link can also be initiated from the TSC.

4. HPN Communicator

A. Health Physics Network (HPN)

1. The HPN is part of the NRC Emergency Telecommunications System (ETS). The HPN will become open line of communication at an ALERT or higher emergency class. Initiate contact by dialing one of the phone numbers provided in the St. Lucie Plant Emergency Response Directory (ERD). Request that the NRC Operations Center (NRCOC) duty officer establish the HPN Bridge for St. Lucie Plant. If the TSC has already established the bridge (with the NRCOC), request to be added on.

ATTACHMENT 10A
COMMUNICATIONS GUIDELINES
(Page 7 of 8)

III. **Other Communications Systems**

1. EOF Telephone System

   A. St. Lucie Plant:

      For 4000 and 7000 numbers; Dial the 4 digit extension

      For 3000 numbers; Dial 9+465-3550+the 4 digit extension

   B. Network of Interoffice:

      8+FPL network number (example - to the GO 8+552-XXXX)

   C. Intrafacility:

      Dial the 4 digit extension

   D. Local Calls (off-network):

      9+outside 7 digit number

   E. Long Distance Calls (off-network):

      8+1+area code+7 digit number+authorization code (on the phone)

   F. Local Directory Assistance

      9+411

ATTACHMENT 10A
COMMUNICATIONS GUIDELINES
(Page 8 of 8)

III. **Other Communications Systems** (continued)

2. HP Off-site Radio Channel

A. A unique 900 Mhz channel for communications with the off-site field monitoring teams. The TSC has the primary responsibility for communicating with the field teams and use of this radio in the EOF is only as a backup to the TSC. The radio is a Motorola Spectra which has been set up so that the HP Off-site Channel is the "home" channel.

1. To power-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. To operate the radio:

a. Depress the transmit side (with the lightning bolt) of the microphone base and begin transmission.

ATTACHMENT 10B
PLANT DATA SHEET
(Page 1 of 3)

ERDADS EF 1/2 Screen Mimic

Avg RCS T hot	
RCS Prz Pres	
RCS Prz Lvl	
Charging Flow	
Limiting Subcooling Mrgn	
Average CET	
Rx Vessel Lvl	
HPSI Flow	
LPSI Flow	
CTMT Temp	
CTMT Pres (WR)	
CTMT Sump Lvl (NR)	
CTMT H2	
S/G Level (WR) A	
S/G Level (WR) B	
S/G Pressure A	
S/G Pressure B	
RWT Level	
CHRRM Ch. A	
CHRRM Ch. B	

SAFEGUARDS

HPSI A _____
HPSI B _____
LPSI A _____
LPSI B _____
CHG PUMP A _____
CHG PUMP B _____
CHG PUMP C _____
CTMT COOLER A _____
CTMT COOLER B _____
CTMT COOLER C _____
CTMT COOLER D _____
CCW A _____
CCW B _____
CCW C _____

CIRCULATION

RCP A1 _____
RCP A2 _____
RCP B1 _____
RCP B2 _____
LPSI A _____
LPSI B _____
LPSI A1 FLOW _____
LPSI A2 FLOW _____
LPSI B1 FLOW _____
LPSI B2 FLOW _____

FEEDWATER SOURCE

MAIN FWP A _____
MAIN FWP B _____
AFW A _____
AFW B _____
AFW C _____
A MAIN FEED FLOW _____
B MAIN FEED FLOW _____
A AUX FEED FLOW (GPM) _____
B AUX FEED FLOW (GPM) _____
C AUX FEED FLOW (GPM) _____

EMERGENCY DIESEL GENERATORS

A	B
VOLTS_____	VOLTS_____
AMPS_____	AMPS_____

ELECTRICAL SYSTEMS

4160 A3 (VOLTS) _____
4160 B3 (VOLTS) _____
6900 A1 (VOLTS) _____
6900 B1 (VOLTS) _____

(EPIP06B.WPG)

ATTACHMENT 10B
PLANT DATA SHEET
(Page 2 of 3)

ERDADS RG1 Screen Mimic **1**

	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	

CHANNEL	MAIN STEAM	VALUE	UNITS	CHANNEL	CONTAINMENT	VALUE	UNITS
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

CHANNEL	ECCS 1A	VALUE	UNITS	CHANNEL	PLANT VENT	VALUE	UNITS
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

CHANNEL	ECCS 1B	VALUE	UNITS	CHANNEL	FUEL BLDG	VALUE	UNITS
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

ATTACHMENT 10B
PLANT DATA SHEET
(Page 3 of 3)

ERDADS RG2 Screen Mimic **2**

	10 METER	57.9 METER
WIND SPEED	_____MPH	_____MPH
WIND DIRECTION	_____DEG	_____DEG
CURRENT TEMP	_____DEG F	_____DEG F
DIFF TEMP	_____DEG F	

CHANNEL	MAIN STEAM	VALUE	UNITS	CHANNEL	CONTAINMENT	VALUE	UNITS
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

CHANNEL	ECCS 2A	VALUE	UNITS	CHANNEL	PLANT VENT	VALUE	UNITS
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

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

ATTACHMENT 11
COUNTY TECHNICAL ADVISOR CHECKLIST
(Page 1 of 2)

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

A. FACILITY ACTIVATION — INITIAL

1. If arriving at EOF:

   a. Refer to section 5.0 of this procedure (included in the position notebook) and review the general instructions. _____

   b. Identify availability to the EIM. _____

   c. Take a copy of your checklist when dispatched to the County. _____

OR

If arriving at the Emergency Operation's Center or having been dispatched from the EOF:

   a. Introduce yourself to the EOC staff. _____

   b. Contact the EOF and notify The EIM or an EIM/ENC Technical Advisor of your contact phone number. _____

   c. Request a copy of your checklist be telecopied to you. _____

ATTACHMENT 11
COUNTY TECHNICAL ADVISOR CHECKLIST
(Page 2 of 2)

B. FACILITY OPERATION — INITIAL

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

   a. Provide overview of accident conditions and plant status.

   b. Answer technical questions and add clarification of issues not understood in the EOC.

   c. Contact personnel in the EOF for assistance in obtaining information (use the ERD).

   d. Participate in facility (EOC) briefings, as requested.

C. FACILITY CLOSEOUT AND RESTORATION

1. Debriefed with EOC Manager. _____

2. Collected all generated paperwork. _____

3. Closed out with the EIM or EIM/ENC Technical Advisor. _____

4. Return position notebook and completed paperwork to Emergency Planning as soon as possible.

ATTACHMENT 12
EOF HEALTH PHYSICS MANAGER CHECKLIST
(Page 1 of 3)

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. Verify that the following positions are filled:

   a. EOF Dose Assessor/FMT Coord (3) _____

   b. EOF HP Tech Support _____

   c. EOF Rad Status Boards Keeper _____

B. FACILITY OPERATION

1. Initiate the HP Logbook. _____

2. Conduct a turnover with the TSC Chemistry Supervisor prior to commencing dose assessment. _____

3. Conduct a turnover with the TSC HP Supervisor prior to taking over the Field Monitoring Teams. _____

4. Request that clocks in the Dose Assessment area be synchronized with ERDADS. In case of ERDADS failure, synchronize with the affected Control Room. _____

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

   a. Monitor radiological conditions associated with the emergency.

   b. Manage the dose assessment and field monitoring activities in the EOF.

ATTACHMENT 12
EOF HEALTH PHYSICS MANAGER CHECKLIST
(Page 2 of 3)

B. FACILITY OPERATION (continued)

5. (continued)

c. Routinely update the RM on radiological/meteorological conditions and potential impact to the event.

d. Assist the RM in determining PARs base on radiological conditions (use Attachment 3, Determination of Protective Action Recommendations (PARs) in EPIP-08, Off-site Notifications and Protective Action Recommendations).

e. Assist the EOF RM OPs Advisor / RM in determining the "Off-site Release Significance Category" as called for on the State Notification Form, as necessary.

f. Review emergency dose extensions with the RM and the EC (use Attachment 12A, Exposure Limits for Emergency Response Personnel).

g. Provide technical support to EOF Communicators.

h. Interface with the EOF ETM to resolve issues involving plant components affecting plant releases.

i. Provide radiological information to support the EOF EIM and the Emergency News Center (ENC).

j. Interface with the State Bureau of Radiation Control.

k. Keep the RM abreast of the status of Bureau of Radiation Control activities.

l. Interface with the NRC Protective Measures Coordinator when the NRC Site Team arrives onsite.

m. Support recovery planning as requested by the RM.

ATTACHMENT 12
EOF HEALTH PHYSICS MANAGER 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. All radiological assessment activities in the EOF have been terminated. _____
2. All HP paperwork is collected. _____
3. All documents, equipment, and supplies returned to pre-activation condition and/or location. _____
4. Closed out the HP Logbook. _____
5. Provided all completed paperwork (not bound in the position notebook) to the RM. _____
6. Returned position notebook to the RM office. _____

ATTACHMENT 12A

§2,¶4 EXPOSURE LIMITS FOR EMERGENCY RESPONSE PERSONNEL

(Page 1 of 1)

NOTE

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 non-life 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 life-threatening situation.	25 REM	250 REM
Rescue of person from a life-threatening situation. (Volunteers[4] should be above the age of 45.)	(5)	(5)

(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.

ATTACHMENT 13
EOF DOSE ASSESSOR/FMT COORD CHECKLIST
(Page 1 of 2)

NOTE

1. The responsibilities of the FMT Coordinator are provided in EPIP-10, Off-Site Radiological Monitoring.
2. 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. Identified availability to RM (serve as initial EOF HP Manager)

OR

Identified availability to EOF HP Manager. _____

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 assessment shall be conducted in accordance with EPIP-09.

1. Establish communication link with the TSC Dose Assessor. _____

2. Request all previous dose calculation paperwork from the TSC. _____

3. Complete Class A Model QC check. _____

ATTACHMENT 13
EOF DOSE ASSESSOR/FMT COORD CHECKLIST
(Page 2 of 2)

B. FACILITY OPERATION (continued) INITIAL

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

   a. Obtain input data for the Class A Model from the EOF ERDADS Operator (RG 1/2 Screen).

   b. Coordinate dose assessment with the TSC.

   c. Provide status board update information to the EOF Rad Status Board keeper (use the "Status Board" printout from the Class A Program.

   d. Coordinate dose assessment with the State Bureau of Radiation Control.

   e. Review/compare field monitoring results with dose calculations.

   f. Report dose assessment results to the EOF HP Manager.

C. FACILITY CLOSEOUT AND RESTORATION

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

1. All dose assessment activities terminated. _____

2. TSC communications link terminated. _____

3. All documents, equipment, and supplies returned to pre-activation condition and/or location. _____

4. All paperwork collected. _____

5. Provided all completed paperwork (not bound in the position notebook) to EOF HP Manager. _____

6. Returned position notebook to the RM office. _____

ATTACHMENT 14
EOF HP TECH SUPPORT CHECKLIST
(Page 1 of 2)

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. Identify availability to EOF Health Physics Manager. _____

B. FACILITY OPERATION

1. Synchronize clocks in the HP area 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. Assist in dose assessment and/or field monitoring activities, as needed.

   b. Ensure HP data posted on status boards are current.

   c. Provide support to the EOF Health Physics Manager as requested.

   d. Support the EOF Health Physics Manager in establishing 24 hour staffing, report staffing to the EOF Administrative Supervisor.

   e. Provide HP technical information/support to the Emergency News Center (ENC) and assist with press briefings, as necessary.

ATTACHMENT 14
EOF HP TECH SUPPORT 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. Assisted with termination of all HP activities in the EOF/ENC. _____

2. All documents, equipment, and supplies returned to pre-activation condition and/or location. _____

3. Provided all completed paperwork (not bound in the position notebook) to the EOF HP Manager. _____

4. Returned position notebook to the RM office. _____

ATTACHMENT 15
EOF RAD STATUS BOARD KEEPER CHECKLIST
(Page 1 of 2)

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. Identify availability to the EOF Health Physics Manager. _____

B. FACILITY OPERATION

1. Verify HP Emergency Kit inventory. _____

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

   a. Obtain data from the EOF Dose Assessor and EOF FMT Coordinator.

   b. Update status boards with new radiological data.

   c. Verify that all data has been accurately transferred to the status boards.

   d. Make corrections, when identified, by circling the corrected data.

   e. When all status board columns/blanks are filled, erase the first two columns/blanks, enter new data, with a different colored marker, leaving space between the new and the old data.

ATTACHMENT 15
EOF RAD STATUS BOARD KEEPER 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. Status boards have been cleared and returned to pre-activation condition. _____

2. Equipment and supplies have been returned to the HP Emergency Kit. _____

3. Provided all completed paperwork (not bound in the position notebook) to the EOF HP Manager. _____

4. Returned position notebook to the RM office. _____

ATTACHMENT 16
EOF ADMINISTRATIVE 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

1. Refer to section 5.0 of this procedure (included in the position notebook) and review the general instructions. _____

2. Identify availability to the Recovery Manager. _____

3. Direct an EOF Administrative staff member to post all EPIP revision numbers on the status board. _____

4. Ensure facility public address system is turned on (amplifier in Administration area, Room 102) and conduct a test page using the RM microphone.

   a. Coverage includes the Bullpen and the surrounding office areas.

   b. Coverage DOES NOT include the Emergency News Center (ENC). _____

5. Ensure the "Videolink" system is turned on.

   a. Turn on the master video switch located in the rack mount cabinet in Room 132 (key #14 in keybox).

   b. In the "Bullpen" turn on the two television sets using the remote controls (one for each television set) on the RM table.

   c. Set the channel selector to channel 7 and adjust volume.

ATTACHMENT 16
EOF ADMINISTRATIVE SUPERVISOR CHECKLIST
(Page 2 of 3)

B. FACILITY OPERATION — INITIAL

1. Ensure procedures, other documents and drawings are available and the revision numbers verified. _____

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

   a. Manage EOF Administrative Staff.

   b. Ensure photocopiers, telecopiers, computers, printers, and telephones are maintained operable.

   c. Supervise distribution of all data, notification forms, and other information.

   d. Facilitate distribution of clerical supplies to all groups in the EOF.

   e. Coordinate with facility managers or designee, to establish 24 hour staffing and completing Attachment 2A, EOF ERO Shift Staffing, Emergency Response Organization and Shift Staffing, (all positions should be filled, except as authorized by the RM).

   f. Ensure arrangements for food, water, and other necessities are made for next 48 to 72 hours, if necessary.

   g. Arrange for hotel reservations and car rentals for incoming personnel as directed by the RM.

   h. Work with the RM for authorization for the expenditure of funds.

ATTACHMENT 16
EOF ADMINISTRATIVE SUPERVISOR 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. Supervised facility walkthrough to ensure all documents, equipment, and supplies were returned to pre-activation condition and/or location. _____

2. Provided all completed paperwork (not bound in the position notebook) to the RM. _____

3. Returned position notebook to the RM office. _____

ATTACHMENT 17
EOF ADMINISTRATIVE STAFF CHECKLIST
(Page 1 of 3)

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. Identify availability to the EOF Administrative Supervisor. _____

3. Verify procedures by posting revision numbers on the status board. Post all procedures (EPIP, HP, Chem). Consult Control Copy 1 in the Recovery Manager's Office or follow the steps below to print out an EPIP list. _____

   a. On the Nuclear Notes Page, PSL Notes Applications, CLICK on "Procedures".

   b. On the PSL Documents page, CLICK on "Procedures".

   c. On the "Search" toolbar, CLICK the far right tab labeled "More".

   d. In the lower middle portion of the expanded "Search" toolbar, CLICK on "Load Search".

   e. SELECT "Group Search (Shared)" from the drop down menu.

   f. In the "Search for" line, TYPE "EP" (where the "XX" is).

   g. CLICK on "Search" or HIT "Enter".

   h. EPIP list is now displayed (procedures are not in any particular order).

   i. To print the list, CLICK on "Print Index".

ATTACHMENT 17
EOF ADMINISTRATIVE STAFF CHECKLIST
(Page 2 of 3)

B. FACILITY OPERATION

1. All photocopiers, telecopiers, computers, printers, etc. energized and problems reported to EOF Administrative Supervisor. _____

2. Switchboard phone manned. _____

3. Establish log for incoming/outgoing telecopiers, using Attachment 17A, Telecopy Log. _____

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

   a. Provide clerical supplies to all groups in the EOF, as needed.

   b. Produce required/requested copies, retain originals.

   c. Distribute copies, telecopies, etc. to recipients as quickly as possible (e.g., ERDADS data sheets, notification forms, news releases, etc.).

   d. Provide any incoming telecopy materials to the RM, RM OPS Advisor/Logkeeper or as designated on the cover page.

   e. Assist the EOF Administrative Supervisor in establishing 24 hour staffing.

   f. Perform duties assigned by the EOF Administrative Supervisor.

ATTACHMENT 17
EOF 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. All photocopiers, telecopiers, computers, printers, etc. de-energized and problems reported to EOF Administrative Supervisor. _____

2. Conducted facility walkthrough to ensure all documents, equipment, and supplies were returned to pre-activation condition and/or location. _____

3. EOF phone switchboard set to "night call". _____

4. Provided completed paperwork (not bound in the position notebook) to the EOF Administrative Supervisor. _____

5. Returned position notebook to the RM office. _____

ATTACHMENT 17A
EOF TELECOPY LOG
(Page 1 of 1)

___Incoming ___Outgoing Phone Number:_____ Date:____/____/____

Message #	Description	Received From	Time	Pages

Receiving Operator:_____

ATTACHMENT 18
EOF EMERGENCY SECURITY MANAGER CHECKLIST
(Page 1 of 3)

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. Identify availability to the RM. _____

§3 3. Establish controls to ensure all EOF personnel comply with the requirements of the Fitness for Duty Rule. _____

4. Verify operability of the intoxilyzer. _____

5. Ensure EOF security force established. _____

B. FACILITY OPERATION

1. Establish access control for the EOF and Emergency News Center (ENC). _____

2. Contact the TSC Security Supervisor. _____

   a. Establish responsibility/protocol for notification of off-site authorities regarding the status of site evacuation.

3. Initiate the Security Logbook. _____

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

   a. Advise RM on security related matters.

§2 b. Provide liaison function between local law enforcement and rescue agencies and FPL for issues such as:

      1. Bomb threats or acts of terrorism.

ATTACHMENT 18
EOF EMERGENCY SECURITY MANAGER CHECKLIST
(Page 2 of 3)

B. FACILITY OPERATION (continued) INITIAL

4. (continued)

b. (continued)

2. Members of the public or the media arriving at the site.

3. Site egress and ingress.

4. Fire or rescue/medical response.

c. Coordinate safeguards suspension with the TSC Security Supervisor.

d. Monitor site accountability status.

e. Interface with NRC Safeguards/Security Coordinator when the NRC Site Team arrives at the EOF.

f. Track status of injured personnel taken to an off-site medical facility (use Attachment 18A, Injured Person Report).

g. Maintain the Security Logbook.

C. FACILITY CLOSEOUT AND RESTORATION

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

1. All paperwork collected. _____

2. Closed out with the local law enforcement agencies. _____

3. Closed out Security Logbook. _____

ATTACHMENT 18
EOF EMERGENCY SECURITY MANAGER CHECKLIST
(Page 3 of 3)

C. FACILITY CLOSEOUT AND RESTORATION	INITIAL
4. Provided all completed paperwork (not bound in the position notebook) to the RM.	_____
5. Returned position notebook to the RM office.	_____
6. All access badges returned to pre-activation location.	_____
7. Facility sweep completed.	_____
8. Facility locked and alarm set.	_____

ATTACHMENT 18A
INJURED PERSON REPORT
(Page 1 of 1)

NAME:		EMPLOYER: ☐ FPL ☐ OTHER (list company name)	JOB DESCRIPTION:
TIME INJURED:	TIME REPORTED:	NATURE OF INJURY:	LOCATION WHERE INJURY OCCURRED:
IS THE VICTIM CONTAMINATED? ☐ NO ☐ YES		WHAT BODY PARTS CONTAMINATED?	LEVEL OF CONTAMINATION AREA_____ LEVEL_____ _____DPM _____CPM AREA_____ LEVEL_____ _____DPM _____CPM AREA_____ LEVEL_____ _____DPM _____CPM
TRANSPORTED TO HOSPITAL? ☐ NO ☐ YES		HOW TRANSPORTED?	NAME OF HOSPITAL OR OTHER LOCATION
ACTIVITY AT THE TIME INJURY OCCURRED		CURRENT MEDICAL CONDITION	
MISC. INFO.			

NAME:		EMPLOYER: ☐ FPL ☐ OTHER (list company name)	JOB DESCRIPTION:
TIME INJURED:	TIME REPORTED:	NATURE OF INJURY:	LOCATION WHERE INJURY OCCURRED:
IS THE VICTIM CONTAMINATED? ☐ NO ☐ YES		WHAT BODY PARTS CONTAMINATED?	LEVEL OF CONTAMINATION AREA_____ LEVEL_____ _____DPM _____CPM AREA_____ LEVEL_____ _____DPM _____CPM AREA_____ LEVEL_____ _____DPM _____CPM
TRANSPORTED TO HOSPITAL? ☐ NO ☐ YES		HOW TRANSPORTED?	NAME OF HOSPITAL OR OTHER LOCATION
ACTIVITY AT THE TIME INJURY OCCURRED		CURRENT MEDICAL CONDITION	
MISC. INFO.			

ATTACHMENT 19
NUCLEAR DIVISION DUTY OFFICER CHECKLIST
(Page 1 of 2)

NOTE
1. The following information is provided when responding in the EOF.
2. 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. _____

B. FACILITY OPERATION

1. Initiate the Emergency Control Officer (ECO) Logbook. _____

2. Notify INPO that an Alert (or higher) emergency class was declared. _____

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

   a. Maintain 24 hour per day on-call availability.

   b. Serve as a technical advisor for the ECO.

      1. Serve as advisor to the EIM on technical matters that may aid in the formation of news releases.

      2. Serve as advisor to the GAM, Risk Manager, or to State and County agencies on technical matters.

      3. Make notifications for the ECO, as directed.

      4. Serve as "interim ECO" in the EOF during periods of time when the ECO leaves the facility.

ATTACHMENT 19
NUCLEAR DIVISION DUTY OFFICER CHECKLIST
(Page 2 of 2)

B. FACILITY OPERATION (continued) — INITIAL

3. (continued)

c. Maintain a record of the event and activities in the ECO Logbook (use Attachment 19A, Typical Information to be Included in the ECO Logbook).

d. Request that INPO assist FPL by performing the following:

1. As requested, submit press releases over Nuclear Network.

2. Promptly inform FPL of any media inquiries or industry offers to provide assistance by contacting you (NDDO) in the EOF (or other location) at your number.

3. Record all conversations with INPO in detail in the ECO Logbook.

C. FACILITY CLOSEOUT AND RESTORATION

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

1. Terminated assistance to the ECO. _____

2. Collected all paperwork. _____

3. Closed out the ECO Log, returned the Logbook to the ECO position notebook office. _____

4. Provided all completed paperwork (not bound in the position notebook) to the RM. _____

5. Returned position notebook to the RM office. _____

ATTACHMENT 19A
TYPICAL INFORMATION TO BE INCLUDED IN THE ECO LOGBOOK

(Page 1 of 1)

Maintaining concise detailed logs during an emergency event is very important. Following the event, all information recorded will be needed to provide a clear picture of actions taken. Regulatory agencies will use this information to evaluate the adequacy of mitigative and corrective actions taken by the Emergency Responders:

The following information should be included in the ECO Logbook:

- Time of each entry.
- Summary of any directions given to other Emergency Responders (i.e., who was told what to do when).
- Summary of discussions with Emergency Managers.
- Summary of discussions with the Chief Nuclear Officer. /R5

Do not remove pages from the Logbook.

ATTACHMENT 20
EMERGENCY CONTROL OFFICER CHECKLIST
(Page 1 of 2)

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. _____

B. FACILITY OPERATION

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

   a. Approve news releases.

   b. Serve as official spokesperson for the Nuclear Division.

   c. Ensure the RM is aware of the primary concerns of the media/public.

   d. Act as the chief nuclear officer.

   e. Keep the RM abreast of activities involving the Governmental Affairs Manager and Risk Manager, if they are not in the EOF.

   f. Maintain awareness of plant status and radiological conditions.

ATTACHMENT 20
EMERGENCY CONTROL OFFICER 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. Spokesperson responsibilities have been returned to Corporate Communications. _____

2. Provided all completed paperwork (not bound in the position notebook) to the RM. _____

3. Returned position notebook to the RM office.

ATTACHMENT 21
GOVERNMENTAL AFFAIRS MANAGER CHECKLIST
(Page 1 of 2)

NOTE
1. The following information is provided when responding in the EOF.
2. 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. Verify that the following are notified:

   a. Gov Affairs Rep (Tallahassee) _____

   b. Governor's Advisor _____

   c. Governmental Affairs Assistant _____

   d. Aviation Department _____

B. FACILITY OPERATION

NOTE
The liaison function between the ECO and public officials is accomplished by the GAM in conjunction with the Governmental Affairs Assistant, Governmental Affairs Representative in Tallahassee and the Governor's Advisor.

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

   a. Share informational updates.

   b. Refer any specific questions or comments from elected or political authorities to the ECO.

ATTACHMENT 21
GOVERNMENTAL AFFAIRS MANAGER CHECKLIST
(Page 2 of 2)

B. FACILITY OPERATION (continued) — INITIAL

1. (continued)

   c. Report summaries of interface with governmental officials routinely to the ECO.

   d. Promptly report rumors that could significantly impact emergency response capability to the ECO.

   e. Keep a log of all significant information.

C. FACILITY CLOSEOUT AND RESTORATION

1. All off-site interfaces have been discontinued. _____

2. Turnover and closeout provided to the ECO regarding liaison activities with off-site officials. _____

3. All paperwork collected. _____

4. All completed paperwork forwarded to Emergency Planning. _____

ATTACHMENT 22
EMERGENCY INFORMATION MANAGER CHECKLIST
(Page 1 of 3)

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. Obtain an update from the ECO or RM. _____
3. Re-establish contact with the Emergency News Center (ENC) Manager. _____
4. Re-establish contact with the "acting" EIM. _____
5. Resume responsibility for all communications, as appropriate. _____
6. Determine when sufficient staff is present to handle all further media briefings from the ENC. _____
7. Recommend to the ECO that the ENC should be declared operational. Operational at_____. _____

B. FACILITY OPERATION

1. Request that clocks in the ENC be synchronized with EOF (based on ERDADS).
2. Issue a news release announcing operation of the ENC, its location and the media phone number. _____
3. Ensure a County Technical Advisor is dispatched to St. Lucie and Martin Counties. _____
4. Direct an EIM/ENC Technical Advisor to keep Logbook. _____

ATTACHMENT 22
EMERGENCY INFORMATION MANAGER CHECKLIST
(Page 2 of 3)

B. FACILITY OPERATION (continued)

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

   a. When developing updates, subsequent statements and/or news releases, obtain approval from the ECO.

   b. Coordinate reviews with State, County and Federal representatives in the EOF.

   c. Ensure that all FPL news releases are delivered to the EOF Administrative Staff for distribution to the appropriate agencies (including the Corporate Communications (CC) staff in Juno Beach).

   d. Ensure that all FPL news releases are delivered to the ENC and shared among the participants in the joint news center prior to briefings.

   e. Conduct new briefings (use Attachment 22A, News Briefing Guidelines, to this attachment).

   f. Attend EOF briefings and meetings, especially those called to determine State and County Protective Action Recommendations (PARs) if possible.

ATTACHMENT 22
EMERGENCY INFORMATION MANAGER CHECKLIST
(Page 3 of 3)

C. FACILITY CLOSEOUT AND RESTORATION — INITIAL

NOTE
As necessary, continued interface with the media should be in accordance with standard Corporate Communications procedures.

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

1. Media notified of ENC deactivation. _____
2. ENC returned to pre-activation condition. _____
3. County Technical Advisors recalled. _____
4. Provided all completed paperwork (not bound in the position notebook) to the RM. _____

ATTACHMENT 22A

NEWS BRIEFING GUIDELINES

(Page 1 of 1)

NOTE

These guidelines are taken from the Corporate Communications Nuclear Emergency Plan (CCNEP). For additional information, the CCNEP should be consulted.

1. In coordination with the ENC Manager, schedule and moderate media briefings in the ENC Media Briefing Room.

2. These briefings should be proceeded by a briefing in the ENC to determine the following:

   A. Who has announcements

   B. What the announcements are

   C. What priority they should be in

3. Briefings should be conducted every hour.

4. Use the ECO, other FPL decisionmakers, FPL technical staff and representatives from State, County and Federal emergency agencies as spokespersons.

5. Use FPL's technical advisors to conduct background briefings between news briefings, as appropriate.

6. During the briefing, refer the media's questions to the agency having jurisdiction of the subject of the question.

ATTACHMENT 23
EIM/ENC TECHNICAL ADVISOR CHECKLIST
(Page 1 of 2)

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. _____

B. FACILITY OPERATION

1. Initiate the EIM Logbook. _____

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

   a. Gather information and ensure the EIM is up-to-date on the emergency status in the following areas:

      - Emergency Classifications
      - Corresponding Emergency Action Levels (EALs)
      - Associated Protective Action Recommendations (PARs)
      - Plant conditions and parameters

   b. Assist the EIM with interpreting technical data to ensure accuracy of news releases.

   c. Assist in obtaining data from the EOF staff for use in news releases, as needed (pay particular attention to updates of radiological information through dose assessment).

ATTACHMENT 23
EIM/ENC TECHNICAL ADVISOR CHECKLIST
(Page 2 of 2)

B. FACILITY OPERATION (continued) INITIAL

2. (continued)

d. Verify that you are on the routing lists for the following information:

- HP/Chemistry data
- ETM/ERDADS updates
- Nuclear licensing/communications data

e. Review content of news releases for technical accuracy.

f. Ensure that the ENC is receiving accurate, up-to-date information needed for media backgrounders.

g. Conduct technical briefings, as requested.

C. FACILITY CLOSEOUT AND RESTORATION

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

1. Assisted EIM in ENC closeout. _____

2. Returned all documents, equipment and supplies to pre-activation condition and/or location. _____

3. Closed out the EIM Log, returned Logbook to the EIM position notebook, and returned the notebook to the RM office. _____

4. Provided all completed paperwork (not bound in the position notebook) to the EIM. _____

5. Returned position notebook to RM office. _____

FPL	ST. LUCIE PLANT EMERGENCY PLAN IMPLEMENTING PROCEDURE SAFETY RELATED	Procedure No. **EPIP-08** Current Revision No. **4** Effective Date **10/18/01**

Title:

OFF-SITE NOTIFICATIONS AND PROTECTIVE ACTION RECOMMENDATIONS

Responsible Department: **EMERGENCY PLANNING**

REVISION SUMMARY:

Revision 4 – Clarified instructions regarding notification of rapidly degrading events. Clarified stability class instructions. Made administrative/editorial changes. (J.R. Walker, 10/11/01)

Revision 3 – **THIS PROCEDURE HAS BEEN COMPLETELY REWRITTEN**. Improved instructions for notification by clarifying responsibilities & revising notification checklists, improved PAR instructions by creating separate attachment, relocated procedure information, added instructions for alternate MET data, added caution regarding classification of multiple events, added note to Control Room appendix identifying attachments necessary to complete notification checklists, and made editorial and administrative changes. (J. R. Walker, 06/11/01)

Revision 2 – Added new NRC Notification form and revised title of form throughout procedure. Clarified turnover responsibilities between EC and RM. Deleted EC turnover guidance (including in EC procedure). Improved overview information regarding PARs. Added reference to NUREG-1022. Clarified instructions for determining "time contact made." Added notes identifying the availability of information from printouts of the Class A model to assist in completion of off-site notification forms. Updated directions for completion of NRC Notification Form. Made administrative / editorial changes. (R. Walker, 01/18/01)

Revision	FRG Review Date	Approved By	Approval Date
0	05/30/00	R. G. West Plant General Manager	05/31/00
4	10/11/01	R.G. West Plant General Manager	10/11/01
		N/A Designated Approver	
		N/A Designated Approver (Minor Correction)	

S___OPS	
DATE	
DOCT	PROCEDURE
DOCN	EPIP-08
SYS	
COM	COMPLETED
ITM	4

TABLE OF CONTENTS

TABLE OF CONTENTS
(continued)

SECTION PAGE

ATTACHMENTS (continued)

1.0 PURPOSE

1.1 Discussion

1. This procedure provides information and instructions for undertaking notifications of the State Warning Point (SWP) and the Nuclear Regulatory Commission (NRC) and for determination of Protective Action Recommendations (PARS).

2. This procedure is for use in the Control Room, Technical Support Center (TSC) and Emergency Operations Facility (EOF).

3. Upon declaration of an emergency classification the Nuclear Plant Supervisor (NPS) assumes the duties of the Emergency Coordinator (EC). The EC has initial responsibility for off-site notifications and PARs.

4. Once the EOF is operational and proper turnover has been conducted, the Recovery Manager (RM) assumes responsibility for off-site notifications and PARs from the EC.

5. At an Alert or higher level emergency, communications with the NRC transition to an open phone line from the TSC and the EOF (at a Site Area Emergency of higher level emergency).

6. The following table illustrates which facility has a responsibility for Classification, Notification or PARs.

	Control Room (**X** until EC function transfers to the TSC)	**TSC** (**X** when operational)	**EOF** (**X** when operational)
Classifications	**X** transfers →	**X**	
Notifications	**X** transfers →	**X** transfers →	**X**
PARs	**X** transfers →	**X** transfers →	**X**

7. Off-site Notification

   A. Purpose of Off-Site Notifications

   FPL is required to notify off-site agencies in the event of any emergency that could threaten the health and safety of the public. These notifications provide an early warning to agencies responsible for public protection.

1.1 Discussion (continued)

7. (continued)

NOTE

The State Department of Health (Bureau of Radiation Control) may not have their office staffed on a 24-hour basis. In the event that they do not answer the Hot Ring Down (HRD) telephone, the State Warning Point (SWP) assumes responsibility for notifying their duty officer.

B. Who Shall Be Notified

- State Division of Emergency Management
- State Department of Health (Bureau of Radiation Control)
- St. Lucie County Emergency Operations Center
- Martin County Emergency Operations Center
- NRC

1. State and County Notification

a. State and local agencies are notified by using the Hot Ring Down (HRD) telephone. The HRD rings the State Warning Point (SWP). The SWP puts the other agencies on line and reduces the need for individual calls.

b. ¶4 After the State Coordinating Officer (SCO) arrives in the EOF, he / she can transfer "NET Control" to the EOF. When this occurs, the Recovery Manager's PAR Briefing becomes the primary notification method for the State and Counties. The Florida Nuclear Plant Emergency Notification Form (form similar to Attachment 1) and the Supplemental Data Sheet (form similar to Attachment 2) should still be completed and provided to the SCO or his / her designee in the EOF. The EOP HRD Communicator should no longer contact the State Warning Point (SWP).

1.1 Discussion (continued)

7. B. (continued)

2. NRC Notification

a. The NRC is notified using the Emergency Notification System (ENS) telephone.

b. NRC notifications occur through an open line of communication in the TSC and, when operational, the EOF.

C. Emergency Follow-up Information Requests from State and local agencies.

1. Incoming calls should come via the SWP over the HRD phone. If the HRD is inoperable, the SWP may use commercial telephone or ESATCOM (emergency satellite phone). If an off-site authority contacts the plant without going through the SWP, request that they contact the 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 agencies of the updated information, thus reducing the number of calls that may be directed to the plant.

2. Long, detailed explanations of plant systems or reactor theory should be avoided. If prompted for this kind of information by the State Duty Officer, he / she should be referred to the Nuclear Division Duty Officer (NDDO).

3. If the State or one of the Counties provides either the TSC or EOF with new or pertinent information, Then bring that information to the attention of the EC or EC Assistant / Logkeeper in the TSC or the RM or the RM OPS Advisor / Logkeeper in the EOF.

1.1 Discussion (continued)

8. Protective Action Recommendations

A. Protective actions for the general public are ordinarily NOT required prior to declaration of a General Emergency. It is possible however, that due to unusually stable and constant meteorological conditions, protective actions could be recommended at a Site Area Emergency based on projected doses. This is the exception rather than the rule.

Protective actions for the general public are required to be recommended if a General Emergency is declared. Initial Protective Action Recommendations (PARs) are normally based on plant conditions. This would NOT be true if the General Emergency was declared based on off-site dose (either measured or projected) or a Security Emergency (per the Security Plan). The predetermined minimum PARs (based on plant conditions) are as given below.

B. General Emergency - Minimum PARs

1. 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 sectors affected. The sectors affected are at least three, the downwind sector plus the two adjacent sectors.

2. If a GENERAL EMERGENCY has been declared due to actual or projected severe core damage, the minimum PAR shall be:

Evacuate all people within a 2-mile radius from the plant and out to 5 miles in the sectors affected. Shelter all people in the remaining sectors from 2 to 5 miles and from 5 to 10 miles from the plant.

1.1 Discussion (continued)

8. B. (continued)

3. 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 sectors affected. Shelter all people in the remaining sectors from 2 to 5 miles and from 5 to 10 miles from the plant.

C. Once a release of radioactive material occurs, dose assessment should be utilized when evaluating PARs. The final determination of the PAR should consider all available information including off-site dose projections, plant conditions and field monitoring data. The most conservative recommendation shall be made.

D. If it is anticipated that a PAR threshold will be exceeded, DO NOT wait until the threshold is exceeded to make that PAR.

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, Operating Experience, 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.

Ψ Indicates a step that requires a sign off on a data sheet.

2.1 References

1. St. Lucie Plant Updated Final Safety Analysis Report (UFSAR) Unit 1 and Unit 2
2. St. Lucie Plant Technical Specifications Unit 1 and Unit 2
3. §$_1$ St. Lucie Plant Radiological Emergency Plan (E-Plan)
4. E-Plan Implementing Procedures (EPIP 00 – 13)
5. St. Lucie Plant Emergency Response Directory (ERD)
6. QI-17-PSL-1, Quality Assurance Records

2.2 Records Required

1. All PAR worksheets and notifications forms (all attachments) shall be maintained in plant files in accordance with QI-17-PSL-1.

2.3 Commitment Documents

1. ¶$_1$ PMAI PM96-04-165, "ITR 96-006" (Unusual Event Declared Due to Dropped Rod)
2. ¶$_2$ PMAI PM96-09-185, Condition Report CR-96-1750 (Off-site Notification Using Commercial Phone)

(continued on next page)

2.3 Commitment Documents (continued)

3. ¶3 NRC Inspection Report 91-01, Closure of IFIs 89-31-03 and 89-31-01

4. ¶4 Condition Report CR-00-0428 (Evaluated Exercise Critique)

5. ¶6 PMAI PM96-05-233 (Off-site Notification Process)

6. ¶7 PMAI PM99-09-016 (PARs Based on FMT Data, Completion of NRC Notification Form)

7. ¶8 NUREG-1022, Event Reporting Guidelines 10 CFR 50.72 and 50.73, Section 4.2.4, ENS Event Notification Worksheet (NRC Form 361).

8. ¶9 Condition Reports CR-01-0726 and CR-01-0742 (NOUEs Associated with SDC During SL1-17 Outage)

9. ¶10 Condition Report CR-01-0389 (Alternate Met Data Source)

3.0 RESPONSIBILITIES

3.1 Emergency Coordinator – Responsible for classifications, notifications and PARs.

3.2 Recovery Manager – Responsible for notifications and PARs.

3.3 Duty Call Supervisor – Assists the EC with filling-out the notification forms and performing notifications following EC approval.

3.4 TSC EC Assistant / Logkeeper or TSC OPS Coordinator – Prepares notification forms (Attachment 1, Florida Nuclear Plant Emergency Notification Form, Attachment 2, Supplemental Data Sheet, and if necessary Attachment 4, NRC Reactor Plant Event Notification Worksheets) for EC approval when the TSC is operational.

3.5 EOF RM OPS Advisor / Logkeeper – Prepares notification forms (Attachment 1, Attachment 2 and if necessary Attachment 4) for RM approval when the EOF is operational.

3.6 TSC HRD Communicator – Assists the TSC EC Assistant / Logkeeper or TSC OPS Coordinator with notification form preparation and makes calls to complete notifications to the SWP.

3.7 EOF HRD Communicator – Assists the EOF RM OPS Advisor with form preparation and makes calls to complete notifications to the SWP and the SCO following transfer of Net Control by the Division of Emergency Management (DEM).

3.8 TSC Chemistry Supervisor (in his absence, TSC Dose Assessor) – Assists the EC with radiological dose assessment data and PARS.

3.9 EOF HP Manager (in his absence, EOF Dose Assessor) – Assists the RM with radiological dose assessment data and PARS.

3.10 TSC Supervisor – Oversees communications performed by the TSC Communicators (HRD, ENS, Health Physics Network (HPN), Sound-Powered Phonetalker, EOF and Field Monitoring Team).

3.11 EOF Nuclear Licensing Manager – Oversees EOF communications performed by the EOF Communicators (HRD, ENS, HPN and TSC).

3.12 Information Services – Maintains user copies, in the Unit 1 and Unit 2 Control Rooms, of the following checklist and supporting attachments for making notifications and developing Protective Action Recommendations:

- Appendix A, Notifications from the Affected Control Room
- Attachment 1 – Florida Nuclear Plant Emergency Notification Form
- Attachment 1A – Directions for Completing the Florida Nuclear Plant Emergency Notification Form
- Attachment 3 – Determination of Protective Action Recommendations (PARs)
- Attachment 4 – NRC Reactor Plant Event Worksheet
- Attachment 4A – Directions for Completing the NRC Reactor Plant Event Worksheet

4.0 DEFINITIONS

4.1 **Conservative** – Means more extensive or comprehensive action under a given set of circumstances to provide a greater measure of safety. For example, evacuation is more conservative than sheltering.

4.2 **Emergency** – Any off-normal event or condition which is classified into one of the four emergency classes (Unusual Event, Alert, Site Area Emergency, or General Emergency) by the NPS in accordance with EPIP-01, Classification of Emergencies.

4.3 **Emergency Coordinator (EC)** – The title initially assumed by the NPS, until relieved by plant management through proper turnover, in the event of plant conditions that trigger implementation of the Emergency Plan. The EC is responsible for notifying off-site authorities, emergency responders both inside and outside the company and has full authority and responsibility for on-site emergency response actions. The EC is also responsible for Protective Action Recommendations during the initial stages of an emergency.

4.4 **Florida Nuclear Plant Emergency Notification Form** – A predetermined format used by nuclear power plants throughout the State for notification and local authorities.

4.5 **Operational** (status for an emergency facility) – The mandatory minimum staff is present and the facility has taken responsibility for its procedurally assigned functions.

4.6 **Protective Action Recommendations** (PARs) – Recommendations, for action instructions to protect the public, made by the Emergency Coordinator or Recovery Manager to State and County officials. FPL may recommend No Action, Sheltering or Evacuation.

4.7 **Recovery Manager** (RM) – A designated company officer or senior manager, who will have responsibility for the direction and control of the EOF. He / she has the authority to establish policy and to expend funds necessary to cope with emergency situations that trigger the implementation of the Emergency Plan.

4.8 **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.

4.9 **State Notification Form (SNF)** – Less formal, more concise expression used in lieu of Florida Nuclear plant Emergency Notification Form.

5.0 INSTRUCTIONS

5.1 State and County Notification

1. Time Limits

   A. Notification shall be initiated within 15 minutes of any of the following:

      1. Recognition of entry into the Emergency Plan.
      2. Escalation in Emergency Class.
      3. De-escalation of the Emergency Class.
      4. Protective Action Recommendation.
      5. Change in Protective Action Recommendation.

   B. Notification shall be initiated within 60 minutes of any of the following:

      1. At an Alert or higher Emergency Class, the time of the last update (unless a different frequency has been agreed to by the off-site agencies as during a hurricane).
      2. A radiological release has been initiated.
      3. A radiological release has been terminated.
      4. A significant change in plant conditions has occurred (e.g., loss or restoration of off-site power or major plant equipment).
      5. Termination of the emergency.

5.1 State and County Notification (continued)

2. Forms Required for Notifications

CAUTION

Notifications require the use of a form similar to Attachment 1, Florida Nuclear Plant Emergency Notification Form. The Supplemental Data Sheet shall only be transmitted with a newly completed SNF.

A. Notifications with 15 minute time limits shall be made using a form similar to Attachment 1, Florida Nuclear Plant Emergency Notification Form.

NOTE

The Supplemental Data Sheet (Attachment 2) is NOT intended for use by the Control Room and should NOT be prepared by or transmitted from that facility.

B. A form similar to the Supplemental Data Sheet (Attachment 2) should also be prepared and transmitted with the SNF. It is permissible to prepare and transmit the "Plant Conditions Information" section only, when dose assessment data is unavailable.

C. Notifications with 60 minute time limits shall be made using a form similar to Attachment 1, Florida Nuclear Plant Emergency Notification Form, and a form similar to the Supplemental Data Sheet (Attachment 2). It is permissible to prepare and transmit the "Plant Conditions Information" section only, when dose assessment data is unavailable.

3. Special instructions due to extraordinary circumstances.

A. If Emergency Class escalation is necessary due to rapidly degrading conditions, Then provide the State and County authorities with the initial notification information by transmitting lines 1-6, at a minimum, of the SNF and terminate the phone call by stating that a new notification form will be provided within 15 minutes.

/R4

5.1 State and County Notification (continued)

3. (continued)

CAUTION
There can not be two concurrent declared emergency classes under the St. Lucie Plant Radiological Emergency Plan.

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, Then a new classification should NOT be declared. The event should be documented on a SNF as "Additional Information or Update" and issued as soon as practicable.

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, Then the new classification shall be declared and promptly, within the regulatory time limits, issued to the State, Counties and the NRC.

4. ¶4 Transfer of NET Control

A. The State Coordinating Officer (SCO) can transfer the control of Hot Ring Down (HRD) NET from the State Warning Point (SWP) to the EOF. When this occurs;

1. The RM shall do face to face communication to satisfy off-site notification requirements for the State and Counties. Calls to the SWP are no longer necessary.

2. The Florida Nuclear Plant Emergency Notification Form (Attachment 1) and the Supplemental Data Sheet (Attachment 2) shall continue to be filled out.

3. Completed notification forms are to be provided to the SCO or his / her designee in the EOF.

END OF SECTION 5.1

/R4

5.2 Nuclear Regulatory Commission (NRC) Notification

1. Time Limits

> **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.

A. 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)).

2. Special Instructions

A. Initial notification to the NRC using the Emergency Notification System (ENS) (usually done from the Control Room) should use Attachment 4, NRC Reactor Plant Event Notification Worksheet.

B. At an Alert or higher emergency class, the NRC will want to establish an open line of communication with the Control Room, utilizing an ENS conference bridge tying in the licensee with NRC Headquarters and region personnel. Once the Technical Support Center (TSC) is operational, the Control Room should transfer responsibility for NRC communications to the TSC.

C. The Emergency Operations Facility (EOF) should join the TSC on the ENS conference bridge and take the lead for NRC communications.

D. The TSC and EOF should also utilize the Health Physics Network (HPN) line in a manner similar to the ENS (i.e., establish a conference bridge with the NRC).

E. Both the ENS and HPN Communicators in both facilities should keep logs of information transmitted and received from the NRC in accordance with procedures.

END OF SECTION 5.2

5.3 ¶1 Erroneous Information

1. If erroneous information is transmitted to off-site agencies 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.

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

END OF SECTION 5.3

APPENDIX A
NOTIFICATIONS FROM THE AFFECTED CONTROL ROOM
(Page 1 of 6)

INITIAL

CAUTION

- §1 Notification of State and local agencies shall be made as soon as practicable within 15 minutes of declaration of an Emergency Class.
- ¶3 A new Florida Nuclear Plant Emergency Notification Form shall be completed for all updates.

NOTE

¶9 1. Completion of this checklist requires the following Attachments (all from EPIP-08):

Attachment 1 – Florida Nuclear Plant Emergency Notification Form

Attachment 1A – Directions for Completing the Florida Nuclear Plant Emergency Notification Form

Attachment 3 – Determination of Protective Action Recommendations (PARs)

Attachment 4 – NRC Reactor Plant Event Notification Worksheet

Attachment 4A – Directions for Completing the NRC Reactor Plant Event Notification Worksheet

2. Checklist Part 1 is for State Warning Point notification.

3. Checklist Part 2 is for NRC notification.

1. State Warning Point Notification

A. Prepare the Florida Nuclear Plant Emergency Notification Form (form similar to Attachment 1) in accordance with Attachment 1A, Directions for Completing the Florida Nuclear Plant Emergency Notification Form. _____

APPENDIX A
NOTIFICATIONS FROM THE AFFECTED CONTROL ROOM
(Page 2 of 6)

1. (continued) INITIAL

B. Obtain the Emergency Coordinator (EC) approval. _____

NOTE

1. Primary notification method to the State Warning Point (SWP) is to use the Hot Ring Down (HRD) phone.

2. If the HRD is out-of-service, alternate notification methods are provided in Section E, below.

C. Using the State HOT RING DOWN (HRD) Phone, dial 100. _____

D. Hold down the button on the handset while talking. This must be done each time you talk. Release the button in order to listen. When the State Duty Officer answers, announce "This is St. Lucie Nuclear Plant [as applicable (Unit 1, 2)] with an emergency message. I am standing by to transmit Florida Nuclear Plant Emergency Notification Form information when you are ready to copy." Allow the Duty Officer to contact St. Lucie County, Martin County and the Bureau of Radiation Control prior to transmitting the information from the notification form. When the parties are on line, provide the information slowly (e.g., in three word intervals) and deliberately, providing time for the information to be written down. _____

APPENDIX A
NOTIFICATIONS FROM THE AFFECTED CONTROL ROOM
(Page 3 of 6)

INITIAL

1. (continued)

E. Alternate Notification Methods (in order of priority)

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).

1. Alternate 1 – Commercial Phone

a. Call the State Warning Point using the phone number in the St. Lucie Plant Emergency Response Directory (ERD). Announce "This is St. Lucie Nuclear Plant [as applicable (Unit 1 / 2)] with an emergency declaration. My callback number is _____." _____

b. Hang up the phone and standby for the callback. When the State Warning Point gives the go-ahead, provide the information from the Florida Nuclear Plant Emergency Notification Form. _____

c. ¶2 Request callback from the State Warning Point to verify that they notified St. Lucie County, Martin County and the Bureau of Radiation Control. _____

APPENDIX A
NOTIFICATIONS FROM THE AFFECTED CONTROL ROOM
(Page 4 of 6)

INITIAL

1. **E.** (continued)

2. Alternate 2 - ESATCOM

NOTE
Use ESATCOM only if Alternate 1 – commercial phone is not available.

a. Hold down the "push-to-talk" 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. _____

b. Announce "State Warning Point, this is St. Lucie Nuclear Plant [as applicable (Unit 1 / 2)] with an emergency declaration." Then release the "push-to-talk" button in order to listen. _____

c. When the State Warning Point acknowledges, announce "State Warning Point, this is St. Lucie Nuclear Plant [as applicable (Unit 1 / 2)] declaring a / an (classification), repeat (classification). I am standing by to transmit Florida Nuclear Plant Emergency Notification Form information when you are ready to copy. When the State Warning Point gives the go-ahead, provide the information from the Florida Nuclear Plant Emergency Notification Form. _____

d. Announce "St. Lucie clear" at the end of the conversation. _____

APPENDIX A
NOTIFICATIONS FROM THE AFFECTED CONTROL ROOM
(Page 5 of 6)

1. **E.** (continued) INITIAL

NOTE
Use Local Government Radio (LGR) only if Alternate 1 and Alternate 2 are both unavailable. LGR communications can be made with St. Lucie County and Martin County Emergency Operations Centers (EOCs) who will relay to the State Warning Point and they relay to the Bureau of Radiation Control.

3. Alternate 3 – Local Government Radio

   a. On channel 2, contact the county EOCs by holding down the push-to-talk button and announcing "St. Lucie County EOC, this is St. Lucie Nuclear Plant [as applicable (Unit 1 / 2)] with an emergency declaration. Over." Then release the "push-to-talk" button in order to listen. When St. Lucie County replies, direct them to standby while you contact Martin County. _____

   b. When both counties are online, announce "Martin and St. Lucie County EOCs, this is St. Lucie Nuclear Plant [as applicable (Unit 1 / 2)] declaring a / an (classification), repeat (classification). I am standing by to transmit Florida Nuclear Plant Emergency Notification Form information when you are ready to copy. Over." _____

   c. When the counties give the go-ahead, provide the information from the Florida Nuclear Plant Emergency Notification Form. _____

   d. Request St. Lucie County (if they are unable, Martin County) callback to verify that they notified the State Warning Point and the Bureau of Radiation Control. _____

   e. End the conversation by announcing "This is St. Lucie Nuclear Plant [as applicable (Unit 1 / 2)], KNGR 874, over and out." _____

END OF PART 1

APPENDIX A
NOTIFICATIONS FROM THE AFFECTED CONTROL ROOM
(Page 6 of 6)

INITIAL

CAUTION

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.

2. $\S_1$ NRC Notification

A. Prepare the NRC Reactor Plant Event Notification Worksheet (form similar to Attachment 4) in accordance with Attachment 4A, Directions for Completing the NRC Reactor Plant Event Notification Worksheet. _____

B. Obtain EC approval. _____

NOTE

1. Primary notification method to the NRC is to use the Emergency Notification System (ENS) phone.
2. If the ENS is out-of-service an alternate notification method is provided in Section D, below.

C. Transmit the form by dialing one of the numbers shown on the phone or in the Emergency Response Directory (ERD). _____

D. Alternate Notification Method

1. If the ENS is out-of-service, Then use a commercial phone to accomplish the above. _____

END OF PART 2

END OF APPENDIX A

APPENDIX B
NOTIFICATIONS FROM THE TECHNICAL SUPPORT CENTER (TSC)
(Page 1 of 6)

INITIAL

CAUTION

- §1 Notification of State and local agencies shall be made as soon as practicable within 15 minutes of declaration of an Emergency Class.
- ¶3 A new Florida Nuclear Plant Emergency Notification Form shall be completed for all updates.

NOTE

- Checklist Part 1 is for HRD Communications.
- Checklist Part 2 is for ENS Communications.

/R4 /R4

1. State Warning Point Notification

   A. Prepare the Florida Nuclear Plant Emergency Notification Form (form similar to Attachment 1) in accordance with Attachment 1A, Directions for Completing the Florida Nuclear Plant Emergency Notification Form.

   B. Verify the Emergency Coordinator (EC) approval. _____

NOTE

1. Primary notification method to the State Warning Point (SWP) is to use the Hot Ring Down (HRD) phone.
2. If the HRD is out-of-service, alternate notification methods are provided in Section E, below.

   C. Using the State HOT RING DOWN (HRD) Phone, dial 100. _____

APPENDIX B
NOTIFICATIONS FROM THE TECHNICAL SUPPORT CENTER (TSC)
(Page 2 of 6)

INITIAL

1. (continued)

D. Hold down the button on the handset while talking. This must be done each time you talk. Release the button in order to listen. When the State Duty Officer answers, announce "This is St. Lucie Nuclear Plant Technical Support Center with an emergency message. I am standing by to transmit Florida Nuclear Plant Emergency Notification Form and Supplemental Data Sheet information when you are ready to copy." Allow the Duty Officer to contact St. Lucie County, Martin County and the Bureau of Radiation Control prior to transmitting the information from the notification forms. When the parties are on line, provide the information slowly (e.g., in three word intervals) and deliberately, providing time for the information to be written down. _____

E. Alternate Notification Methods (in order of priority)

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).

1. Alternate 1 – Commercial Phone

a. Call the State Warning Point using the phone number in the St. Lucie Plant Emergency Response Directory (ERD). Announce "This is St. Lucie Nuclear Plant Technical Support Center with an emergency declaration. My callback number is _____." _____

b. Hang up the phone and standby for the callback. When the State Warning Point gives the go-ahead, provide the information from the Florida Nuclear Plant Emergency Notification Form. _____

c. ¶2 Request callback from the State Warning Point to verify that they notified St. Lucie County, Martin County and the Bureau of Radiation Control. _____

APPENDIX B
NOTIFICATIONS FROM THE TECHNICAL SUPPORT CENTER (TSC)
(Page 3 of 6)

INITIAL

1. **E.** (continued)

2. Alternate 2 - ESATCOM

NOTE
Use ESATCOM only if Alternate 1 – commercial phone is not available.

a. Hold down the "push-to-talk" 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. _____

b. Announce "State Warning Point, this is St. Lucie Nuclear Plant Technical Support Center with an emergency declaration." Then release the "push-to-talk" button in order to listen. _____

c. When the State Warning Point acknowledges, announce "State Warning Point, this is St. Lucie Nuclear Plant Technical Support Center declaring a / an (classification), repeat (classification). I am standing by to transmit Florida Nuclear Plant Emergency Notification Form information when you are ready to copy. When the State Warning Point gives the go-ahead, provide the information from the Florida Nuclear Plant Emergency Notification Form. _____

d. Announce "St. Lucie clear" at the end of the conversation. _____

APPENDIX B
NOTIFICATIONS FROM THE TECHNICAL SUPPORT CENTER (TSC)
(Page 4 of 6)

1.. **E.** (continued) INITIAL

NOTE
Use Local Government Radio (LGR) only if Alternate 1 and Alternate 2 are both unavailable. LGR communications can be made with St. Lucie County and Martin County Emergency Operations Centers (EOCs) who will relay to the State Warning Point and they relay to the Bureau of Radiation Control.

3. Alternate 3 – Local Government Radio

a. On channel 2, contact the county EOCs by holding down the push-to-talk button and announcing "St. Lucie County EOC, this is St. Lucie Nuclear Plant Technical Support Center with an emergency declaration. Over." Then release the "push-to-talk" button in order to listen. When St. Lucie County replies, direct them to standby while you contact Martin County. _____

b. When both counties are online, announce "Martin and St. Lucie County EOCs, this is St. Lucie Nuclear Plant Technical Support Center declaring a / an (classification), repeat (classification). I am standing by to transmit Florida Nuclear Plant Emergency Notification Form information when you are ready to copy. Over." _____

c. When the counties give the go-ahead, provide the information from the Florida Nuclear Plant Emergency Notification Form. _____

d. Request St. Lucie County (if they are unable, Martin County) callback to verify that they notified the State Warning Point and the Bureau of Radiation Control. _____

e. End the conversation by announcing "This is St. Lucie Nuclear Plant Technical Support Center, KNGR 874, over and out." _____

END OF PART 1

APPENDIX B
NOTIFICATIONS FROM THE TECHNICAL SUPPORT CENTER (TSC)
(Page 5 of 6)

INITIAL

CAUTION
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.

NOTE
1. Primary notification method to the NRC is to use the Emergency Notification System (ENS) phone.
2. If the ENS is out-of-service, an alternate notification method is provided in Section B, below.

2. §1 NRC Notification

A. Choose and complete the appropriate steps, below:

1. If the NRC Reactor Plant Event Notification Worksheet has NOT previously been transmitted from the Control Room, Then request that the EC Assistant / Logkeeper prepare the form. _____

2. Verify EC approval. _____

3. Transmit the form by dialing one of the numbers shown on the phone or in the Emergency Response Directory (ERD), then GO TO the next step to establish an open line of communication with the NRC. _____

OR

4. If the NRC Reactor Plant Event Notification Worksheet has previously been transmitted by the Control Room, Then initiate an open line of communication with the NRC by dialing one of the numbers shown on the phone or in the ERD and request to be placed on the Conference Bridge with the NRC. _____

5. As requested, provide information to the NRC. _____

APPENDIX B
NOTIFICATIONS FROM THE TECHNICAL SUPPORT CENTER (TSC)
(Page 6 of 6)

2. (continued) INITIAL

B. Alternate Notification Method

1. If the ENS is out-of-service, Then use a commercial phone to accomplish the above. _____

END OF PART 2

END OF APPENDIX B

APPENDIX C
NOTIFICATIONS FROM THE EMERGENCY OPERATIONS FACILITY (EOF)

(Page 1 of 8)

INITIAL

CAUTION

- §1 Notification of State and local agencies shall be made as soon as practicable within 15 minutes of declaration of Emergency Class or change in Protective Action Recommendation (PAR).
- ¶3 A new Florida Nuclear Plant Emergency Notification Form shall be completed for all updates.

NOTE

- Checklist Part 1 is for HRD Communications.
- Checklist Part 2 is for ENS Communications.

/R4 /R4

1. State Warning Point Notification

A. Prepare the Florida Nuclear Plant Emergency Notification Form (form similar to Attachment 1) in accordance with Attachment 1A, Directions for Completing the Florida Nuclear Plant Emergency Notification Form.

B. Verify the Recovery Manager (RM) approval. _____

APPENDIX C
NOTIFICATIONS FROM THE EMERGENCY OPERATIONS FACILITY (EOF)
(Page 2 of 8)

1. (continued) INITIAL

NOTE

1. Primary notification method to the State Warning Point (SWP) is to use the Hot Ring Down (HRD) phone.
2. If the HRD is out-of-service, alternate notification methods are provided in Section D, below.
3. State and County representatives means Florida Division of Emergency Management (DEM), Florida Department of Health (DOH), St. Lucie County Department of Public Safety (DPS) and Martin County Department of Emergency Services (DES).
4. Notification forms means the Florida Nuclear Plant Emergency Notification Form and the Supplemental Data Sheet.

C. Choose and complete the appropriate step below:

1. If State and County representatives are NOT co-located with the FPL Emergency Response Organization (ERO) in the EOF, Then call the SWP and transmit the notification forms. To contact the SWP, dial 100. Hold down the button on the handset while talking. This must be done each time you talk. Release the button in order to listen. When the State Duty Officer answers, announce "this is St. Lucie Nuclear Plant Emergency Operations Facility with an emergency message. I am standing by to transmit the Florida Nuclear Plant Emergency Notification Form and the Supplemental Data Sheet information when you are ready to copy." Allow the Duty Officer to contact the Bureau of Radiation Control, St. Lucie County DPS and Martin County DES prior to transmitting the information from the notification forms. When the parties are on line, transmit the information slowly, (e.g., in three word intervals) and deliberately, providing time for the information to be written down. _____

OR

APPENDIX C
NOTIFICATIONS FROM THE EMERGENCY OPERATIONS FACILITY (EOF)
(Page 3 of 8)

1. C. (continued) INITIAL

2. If State and County representatives are co-located with the FPL ERO in the EOF and the State Coordinating Officer (SCO) has NOT assumed Net Control, Then call the SWP and transmit the notification forms – "Time of Contact" corresponds to the start time of the Recovery Manager's Protective Action Recommendation (PAR) Briefing. To contact the SWP, dial 100. Hold down the button on the handset while talking. This must be done each time you talk. Release the button in order to listen. When the State Duty Officer answers, announce "this is St. Lucie Nuclear Plant Emergency Operations Facility with an emergency message. I am standing by to transmit the Florida Nuclear Plant Emergency Notification Form and the Supplemental Data Sheet information when you are ready to copy." Allow the Duty Officer to contact the Bureau of Radiation Control, St. Lucie County DPS and Martin County DES prior to transmitting the information from the notification forms. When the parties are on line, transmit the information slowly, (e.g., in three word intervals) and deliberately, providing time for the information to be written down. _____

OR

3. If State and County representatives are co-located with the FPL ERO in the EOF and the SCO has transferred Net Control to the EOF, Then the SWP is not called (completed notification forms are given to the SCO – may be accomplished by the RM or RM OPS Advisor / Logkeeper). _____

APPENDIX C
NOTIFICATIONS FROM THE EMERGENCY OPERATIONS FACILITY (EOF)
(Page 4 of 8)

INITIAL

1. (continued)

D. Alternate Notification Methods (in order of priority)

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).

1. Alternate 1 – Commercial Phone

a. Call the State Warning Point using the phone number in the St. Lucie Plant Emergency Response Directory (ERD). Announce "This is St. Lucie Nuclear Plant Emergency Operations Facility with an emergency declaration. My callback number is _____." _____

b. Hang up the phone and standby for the callback. When the State Warning Point gives the go-ahead, provide the information from the Florida Nuclear Plant Emergency Notification Form. _____

c. ¶₂ Request callback from the State Warning Point to verify that they notified St. Lucie County, Martin County and the Bureau of Radiation Control. _____

APPENDIX C
NOTIFICATIONS FROM THE EMERGENCY OPERATIONS FACILITY (EOF)
(Page 5 of 8)

INITIAL

1. **D.** (continued)

2. Alternate 2 - ESATCOM

NOTE
Use ESATCOM only if Alternate 1 – commercial phone is not available.

a. Hold down the "push-to-talk" 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. _____

b. Announce "State Warning Point, this is St. Lucie Nuclear Plant Emergency Operations Facility with an emergency declaration." Then release the "push-to-talk" button in order to listen. _____

c. When the State Warning Point acknowledges, announce "State Warning Point, this is St. Lucie Nuclear Plant Emergency Operations Facility declaring a / an (classification), repeat (classification). I am standing by to transmit Florida Nuclear Plant Emergency Notification Form information when you are ready to copy." When the State Warning Point gives the go-ahead, provide the information from the Florida Nuclear Plant Emergency Notification Form. _____

d. Announce "St. Lucie clear" at the end of the conversation. _____

APPENDIX C
NOTIFICATIONS FROM THE EMERGENCY OPERATIONS FACILITY (EOF)
(Page 6 of 8)

1. **D.** (continued) INITIAL

NOTE
Use Local Government Radio (LGR) only if Alternate 1 and Alternate 2 are both unavailable. LGR communications can be made with St. Lucie County and Martin County Emergency Operations Centers (EOCs) who will relay to the State Warning Point and they relay to the Bureau of Radiation Control.

3. Alternate 3 – Local Government Radio

   a. On channel 2, contact the county EOCs by holding down the push-to-talk button and announcing "St. Lucie County EOC, this is St. Lucie Nuclear Plant Emergency Operations Facility with an emergency declaration. Over." Then release the "push-to-talk" button in order to listen. When St. Lucie County replies, direct them to standby while you contact Martin County. _____

   b. When both counties are online, announce "Martin and St. Lucie County EOCs, this is St. Lucie Nuclear Plant Emergency Operations Facility declaring a / an (classification), repeat (classification). I am standing by to transmit Florida Nuclear Plant Emergency Notification Form information when you are ready to copy. Over." _____

   c. When the counties give the go-ahead, provide the information from the Florida Nuclear Plant Emergency Notification Form. _____

   d. Request St. Lucie County (if they are unable, Martin County) callback to verify that they notified the State Warning Point and the Bureau of Radiation Control. _____

   e. End the conversation by announcing "This is St. Lucie Nuclear Plant Emergency Operations Facility, KNGR 874, over and out." _____

END OF PART 1

APPENDIX C
NOTIFICATIONS FROM THE EMERGENCY OPERATIONS FACILITY (EOF)
(Page 7 of 8)

INITIAL

CAUTION
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.

2. §1 NRC Notification

NOTE
1. Primary notification method to the NRC is to use the Emergency Notification System (ENS) phone.
2. If the ENS is out-of-service, an alternate notification method is provided in Section B, below.

A. Choose and complete the appropriate steps, below:

1. If the NRC Reactor Plant Event Notification Worksheet has NOT previously been transmitted from either the Control Room or Technical Support Center (TSC), Then request that the RM OPS Advisor prepare the form. _____

2. Verify RM approval. _____

3. Transmit the form by dialing one of the numbers shown on the phone or in the Emergency Response Directory (ERD), then GO TO the next step to establish an open line of communication with the NRC. _____

OR

4. If the NRC Reactor Plant Event Notification Worksheet has previously been transmitted by either the Control Room or the TSC, Then initiate an open line of communication with the NRC by dialing one of the numbers shown on the phone or in the ERD and request to be placed on the Conference Bridge with the NRC and the St. Lucie TSC. _____

5. Take the lead in providing information to the NRC. _____

APPENDIX C
NOTIFICATIONS FROM THE EMERGENCY OPERATIONS FACILITY (EOF)
(Page 8 of 8)

INITIAL

2. (continued)

B. Alternate Notification Method

1. If the ENS is out-of-service, Then use a commercial phone to accomplish the above. _____

END OF PART 2

END OF APPENDIX C

ATTACHMENT 1
FLORIDA NUCLEAR PLANT EMERGENCY NOTIFICATION FORM
(Page 1 of 1)

1. **A.** ☐ THIS IS A DRILL **B.** ☐ THIS IS AN ACTUAL EVENT

2. **A.** Time / Date contact made_____ **B.** Reported by: (Name / Title)_____
   C. Message Number_____ **D.** Reported from: ☐ Control Room ☐ TSC ☐ EOF

3. Site: **A.** ☐ Crystal River Unit 3 **B.** ☐ St. Lucie Unit 1 **C.** ☐ St. Lucie Unit 2
   D. ☐ Turkey Point Unit 3 **E.** ☐ Turkey Point Unit 4

4. Accident Classification **A.** ☐ Notification of Unusual Event **C.** ☐ Site Area Emergency
   B. ☐ Alert **D.** ☐ General Emergency

5. Current Emergency Declaration: Time:_____ Date:_____

6. Reason for Emergency Declaration:* _____

7. Additional Information or Update: _____

8. Injuries Requiring Offsite Support: **A.** ☐ No ☐ Yes ☐ Unknown **B.** Contaminated: ☐ No ☐ Yes ☐ Unknown

9. Weather Data: **A.** Wind direction from _____ degrees
   B. Downwind Sectors Affected (minimum of 3): _____, _____, _____, _____

10. Release Status: **A.** ☐ No Release (Go to Item 12) **C.** ☐ A Release occurred, but stopped
    B. ☐ A Release is occurring

11. Offsite Release Significance Category (at the Site Boundary):
    A. ☐ Information not available at this time.
    B. ☐ Release within normal operating limits (≤ 3.5 E-1 ci/sec noble gas, ≤ 4.6 E-5 ci/sec iodine)
    C. ☐ Non-Significant Fraction of PAG Range (release is > normal limits and < 500 mR TEDE and 1000 mR CDE)
    D. ☐ PAG Range (≥ 500 mR TEDE or ≥ 1000 mR CDE)

12. Utility Recommended Protective Actions:
    A. ☐ None **B.** ☐ Shelter Zones / Areas:_____
    Evacuate Zones / Areas:_____
    OR C. ☐

Miles	No Action Sectors	Evacuate Sectors	Shelter Sectors
0 – 2			
2 – 5			
5 – 10			

13. Has Event Been Terminated?: **A.** ☐ No **B.** ☐ Yes: Time:_____ Date:_____

14. Supplemental Form is Attached?: **A.** ☐ No **B.** ☐ Yes:

    EC or RM Approval Signature:_____ Time:_____ Date:_____

15. Message Received By: Name:_____ Time:_____ Date:_____

* If emergency class escalation is known to be necessary and a new notification form will be transmitted within 15 minutes, then you may go to line 15.

END OF ATTACHMENT 1

¶6 ATTACHMENT 1A
DIRECTIONS FOR COMPLETING THE FLORIDA NUCLEAR PLANT EMERGENCY NOTIFICATION FORM
(Page 1 of 6)

ITEM ENTRY

1. Check appropriate box for drill or actual emergency as the case may be. During exercises, drills, or tests, each message shall be checked **THIS IS A DRILL.**

2A. Enter the time (using the official time, normally synchronized with ERDADS) when contact is made with the State Warning Point or the start time of the RM PAR Briefing. For initial notification of classification, this shall be within 15 minutes of the "Current Emergency Declaration" time in item 5.

2B. Enter the name and title of person making the notification call (e.g., John Doe, Duty Call Supervisor).

2C. Enter the message number beginning with #1 and following sequentially in all facilities (e.g., if the Control Room transmitted two messages the TSC would start with #3).

2D. Check the box for the facility from which the notification is being made.

3. Site
Check the box for the appropriate plant site for the emergency declaration (both St Lucie boxes might need to be checked for dual unit events such as approach of a hurricane).

4. Accident Classification
Check the box corresponding to current accident classification declared by the EC.

5. Current Emergency Declaration
Enter the emergency declaration **time** and **date** (as determined by the EC) for the current accident classification.

6. Reason for Emergency Declaration
Enter wording like that found in the Emergency Action Level (EAL) information in EPIP-01, Classification Of Emergencies. Wording should be brief yet descriptive enough for the off-site agencies to gain an understanding of the event. It should be clear from the incident description which EAL has necessitated the emergency declaration. Wording should be as non-technical as possible with no acronyms or abbreviations. This information should remain the same throughout update messages, unless there is a classification change. (The EC has this information.)

ATTACHMENT 1A
DIRECTIONS FOR COMPLETING THE FLORIDA NUCLEAR PLANT EMERGENCY NOTIFICATION FORM
(Page 2 of 6)

7. Additional Information or Update
Enter additional information, if necessary, or reason for update here. For example:

- Protective Action Recommendations (PARs) change
- An occurrence that would otherwise result in a lower emergency classification, on other unit
- Weather changes affecting public safety
- Radiation level changes
- Loss of off-site power, etc.

8. Injuries Requiring Off-site Support

NOTE
Keep checking the same boxes, in item 8, on subsequent notifications unless a first injury occurs, status of contamination becomes known or erroneous data is being corrected. The checked box is to alert the County that patient transport is involved in the emergency. That fact does not change even though the transport may have already occurred during a previous notification.

A. Check the appropriate box. Check box for "Yes" only if an injury occurs that involves off-site support (EMS, hospital). Check "Unknown" if the extent of the injury is unknown at this time or if it is not yet known if off-site treatment is necessary.

B. Check the appropriate box. Check box for "Unknown" only if the nature of the injury has prevented thorough monitoring on-site or if there is any doubt whether contamination is present.

ATTACHMENT 1A
DIRECTIONS FOR COMPLETING THE FLORIDA NUCLEAR PLANT EMERGENCY NOTIFICATION FORM
(Page 3 of 6)

NOTE
If the Class A Model (dose projection model) is being used, a 'State Notification Form Summary Sheet' is available which provides information for completion of items 9-12. The information is in a format similar to that found on the Florida Nuclear Plant Emergency Notification Form.

9. Weather Data

NOTE
10 meter data should be used.

A. ¶10 Wind direction can be obtained from ERDADS by depressing the "EPIP" key, on the top row of the keyboard. The Met Tower Indicator Panel in the Unit 1 Control Room is an alternate source. If these two sources are not available, refer to Attachment 1, Meteorological Data, in EPIP-09, Off-Site Dose Calculations.

B. If the wind direction is greater than 360° the wind direction is determined by subtracting 360° from the indicated number. Wind direction should be rounded to the nearest whole number.

C. Wind direction is always given as "wind from" (an easterly wind, or wind direction 90°, means that the wind is blowing from east to west).

D. When determining the sectors affected, the adjacent sectors on both sides of the actual downwind sector are included. Three sectors will typically be listed.

E. If the wind is located on the edge of a sector (i.e., 11°, 33°, etc.) and additional (fourth) sector should be added.

F. Enter the wind direction (wind from) in degrees in item "A."

ATTACHMENT 1A
DIRECTIONS FOR COMPLETING THE FLORIDA NUCLEAR PLANT EMERGENCY NOTIFICATION FORM
(Page 4 of 6)

9. (continued)

G. Enter the downwind sectors in item "B."

Wind From	Sectors Affected	Wind From	Sectors Affected	Wind From	Sectors Affected
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	

10. Release Status

A. If there are no indications of a release of radioactive material, check box "A" and go to item 12.

A release of radioactive material (during any declared emergency) is defined as:

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

OR

- 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.

B. If a release of radioactive material is occurring, even though it may be less than normal operating limits, check box "B."

C. If a release has occurred but stopped, check box "C."

Specific dose information should be supplied on the supplemental data sheet after the TSC is declared operational at an Alert or higher classification.

Dose Assessment personnel in the TSC or EOF will have this information. The TSC Chemistry Supervisor, TSC HP Supervisor or EOF HP Manager should be contacted for the data.

ATTACHMENT 1A
DIRECTIONS FOR COMPLETING THE FLORIDA NUCLEAR PLANT EMERGENCY NOTIFICATION FORM
(Page 5 of 6)

11. Offsite Release Significance Category
Do Not Check Any Box in Item 11 if you Checked Box 10 "A" No Release

A. If a release is occurring or has occurred and dose information is not available at the time of notification, check box "A" and follow up as soon as information becomes available.

B. Check box "B" if both noble gas and iodine release rates are less than or equal to the following:

Noble Gas release $\leq$ 3.5 E+5 µCi/sec (3.5 E-1 Ci/sec)
Iodine release $\leq$ 4.6 E+1 µCi/sec (4.6 E-5 Ci/sec)

C. Check box "C" if either noble gas or iodine release rates exceed the values in "B" (above) but forecasted 1 mile doses are less than either 500 mrem TEDE or 1000 mrem Thyroid CDE. These doses are less than the state's Protective Action Guide (PAG) levels.

D. Check box "D" if forecasted 1 mile doses are greater than or equal to either 500 mrem TEDE or 1000 mrem Thyroid CDE. These PAG levels require state and county action.

12. Utility Recommended Protective Actions

A. If there are no protective action recommendations (PARs), check Box "A."

B. This box pertains to Crystal River or may be used by off-site agencies and should not be used by FPL.

C. If PARs are necessary, then check Box "C." Determine appropriate PARs using the guidance in Attachment 3 to this procedure. Copy the PARs into item 12 "C." Indicate PARs using only the words NONE, ALL, ALL REMAINING or by listing the letters of the sectors affected. Protective Action Recommendations shall be approved by the Emergency Coordinator (EC) or the Recovery Manager (RM).

/R4 /R4

ATTACHMENT 1A
DIRECTIONS FOR COMPLETING THE FLORIDA NUCLEAR PLANT EMERGENCY NOTIFICATION FORM
(Page 6 of 6)

13. Has Event Been Terminated?

A. Check box "A" if the event has not been terminated. DO NOT ENTER A TIME OR DATE.

B. Check box "B" if the event has been terminated and enter the time and date of termination. The EC has this information.

14. Supplemental Form Is Attached?

NOTE
The Supplemental Data Sheet is NOT for use in the Control Room.

A. Check box "A" unless a Supplemental Data Sheet has been completed for this particular message.

B. Check box "B" if a Supplemental Data Sheet is accompanying this message.

The Emergency Coordinator (EC) or Recovery Manager (RM) shall sign to indicate approval to transmit the information contained on the form unless the second page (Supplemental Data Sheet) is signed for a two-page notification. The EC or RM Approval Signature line is not numbered because the state and counties do not need this information. DO NOT ATTEMPT TO TRANSMIT THIS INFORMATION VIA HOT RING DOWN. The state and county forms, to which they are copying data, do not contain this signature line.

15. Message Received By

Enter the name of the State Warning Point Duty Officer or the individual that receives the notification. Enter the time at the State Warning Point (request it from the Duty Officer) and indicate the date the call is completed.

END OF ATTACHMENT 1A

ATTACHMENT 2
SUPPLEMENTAL DATA SHEET
(Page 1 of 1)

The following supplemental data is to be completed after the TSC or EOF is declared operational at Alert or higher.

Supplement to Message Number _____

PLANT CONDITIONS INFORMATION

Critical Safety Functions:

A. Reactor Shutdown? ☐ Yes ☐ No

B. Core Adequately Cooled? ☐ Yes ☐ No

C. Adequate Emergency Power Available (Diesels)? ☐ Yes ☐ No

Fission Product Barrier Status: (Check one condition for each barrier)

BARRIER	√	INTACT	√	CHALLENGED	√	LOST	√	REGAINED
Fuel Cladding		No indication of clad damage		Clad is intact but losing subcooling, water level, etc.		Clad has failed, indicated by high temps., high containment rad, etc.		Cooling restored, no further degradation expected
Pri. Reactor Coolant System		Leakage is within normal charging or makeup pump capacity		Leakage is within safety injection capacity		Leakage exceeds safety injection capacity		Leakage reduced to within injection capacity (system repaired)
Containment		No evidence of containment leakage or tube rupture release is only through condenser		No leakage but containment pressure is at or above safety system actuation points		Evidence of containment leakage (known release path or rad surveys)		Repair efforts have isolated leak or containment pressure has reduced to stop leakage

Completed by:_____ Time:_____ Date:_____

RADIOLOGICAL DOSE ASSESSMENT DATA

1. Release Status:
   - **A.** ☐ No Release (no further data required)
   - **B.** ☐ A Release is occurring
   - **C.** ☐ A Release occurred, but stopped

2. Release Rate:
   - **A.** ☐ Noble Gases: _____ Curies per second ☐ Measured ☐ Default
   - **B.** ☐ Iodines: _____ Curies per second ☐ Measured ☐ Default

3. Type of Release:
   - **A.** ☐ Airborne Time / Date Started:_____ Time / Date Stopped:_____
   - **B.** ☐ Liquid Time / Date Started:_____ Time / Date Stopped:_____

4. Projected Off-Site Dose Rate:

Distance	Thyroid Dose Rate (CDE)	Total Dose Rate (TEDE)
1 Mile (Site Boundary)	**A.**_____mrem/hr	**B.**_____mrem/hr
2 Miles	**C.**_____mrem/hr	**D.**_____mrem/hr
5 Miles	**E.**_____mrem/hr	**F.**_____mrem/hr
10 Miles	**G.**_____mrem/hr	**H.**_____mrem/hr

5. Weather Data (used for the above data):
   - **A.** Wind Direction from _____ degrees
   - **B.** Wind Speed _____ MPH
   - **C.** Stability Class _____

Completed By:_____ Time:_____ Date:_____

Emergency Coordinator or Recovery Manager Approval_____

END OF ATTACHMENT 2

ATTACHMENT 2A
DIRECTIONS FOR COMPLETING THE SUPPLEMENTAL DATA SHEET
(Page 1 of 4)

"Supplement to Message Number" is the same number recorded in 2. "C" on the Florida Nuclear Plant Emergency Notification Form associated with this Supplemental Data Sheet.

Plant Conditions Information

Critical Safety Functions
Answer the three questions "yes" or "no" by checking the appropriate box.

A. Is the reactor shutdown?

B. Is the core adequately cooled?

C. Is there adequate emergency power available (diesels)?

Fission Product Barrier Status
Check one condition for each barrier – intact, challenged, lost, or regained.

"Completed By" should be filled in by the person recording the information on this form by printing their name on this line.

Radiological Dose Assessment Data (To Be Obtained from Dose Assessment Personnel)

> **NOTE**
> If the Class A Model is being used, a 'Supplemental Data Sheet – Radiological Dose Assessment Data' form is available which provides information for completion of items 1-5. The information is in a format similar to that found on the Supplemental Data Sheet.

1. Release Status

   A. If there are no indications of a release of radioactive material, check box "A."

   B. If a release of radioactive material is occurring, even though it may be less than normal operating limits, check box "B."

   C. If a release of radioactive material has occurred but stopped, check box "C."

ATTACHMENT 2A
DIRECTIONS FOR COMPLETING THE SUPPLEMENTAL DATA SHEET
(Page 2 of 4)

1. Release Status (continued)

   A release of radioactive material (during any declared emergency) is defined as:

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

   OR

   - 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.

2. Release Rate
   This section requires the completed results of dose assessment.

   A. Check the noble gas box for a noble gas release. Write the release rate (in curies per second) in the space provided. Check either "Measured" or "Default" to indicate how the release rate was determined.

   B. Check the iodines box for an iodine release. Write the release rate (in curies per second) in the space provided. Check either "Measured" or "Default" to indicate how the release rate was determined.

3. Type of Release
   Check the type of release – either airborne or liquid. Enter the time and date that the release started and stopped.

4. Projected Off-Site 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.

ATTACHMENT 2A
DIRECTIONS FOR COMPLETING THE SUPPLEMENTAL DATA SHEET
(Page 3 of 4)

5. Weather Data

NOTE
10 meter data should be used.

A. ¶10 Temperature, wind speed and wind direction can be obtained from ERDADS by depressing the "EPIP" key, on the top row of the keyboard. The Met Tower Indicator Panel in the Unit 1 Control Room is an alternate source. If these two sources are not available, refer to Attachment 1, Meteorological Data, in EPIP-09, Off-site Dose Calculations.

B. If the wind direction is greater than 360° the wind direction is determined by subtracting 360° from the indicated number. Wind direction should be rounded to the nearest whole number.

C. Wind direction is always given as "wind from" (an easterly wind, or wind direction 90°, means that the wind is blowing from east to west).

D. Enter the wind direction (wind from) in degrees in item "A".

E. Enter the wind speed in Miles Per Hour (MPH) in item "B".

F. Stability Class – Enter the stability class as determined by using the Figure below. The figure shows the relationship between the Delta T displayed by ERDADS and the stability class.

/R4

ATTACHMENT 2A
DIRECTIONS FOR COMPLETING THE SUPPLEMENTAL DATA SHEET
(Page 4 of 4)

5. (continued)

If Delta – T is	Then Stability Class is
less than or equal to -1.7	A
-1.6 To -1.5	B
-1.4	C
-1.3 To -0.5	D
-0.4 To +1.4	E
+1.5 To +3.6	F
greater than +3.6	G

/R4

Completing the Supplemental Data Sheet

Completed By: The person completing the form should print their name on this line.

Approval needs to be signed by the EC or RM who approves the forms. The EC or RM shall sign to indicate approval to transmit the information contained on the forms. The Supplemental Data Sheet signature, for a two-page notification, indicates approval of both the first and second pages. On a two-page notification the EC or RM only need sign the second page to approve both the Florida Nuclear Plant Emergency Notification Form and the Supplemental Data Sheet. The "Emergency Coordinator or Recovery Manager Approval" lines are not numbered because the state and counties do not need this information. DO NOT ATTEMPT TO TRANSMIT THIS INFORMATION VIA HOT RING DOWN. The state and county forms, to which they are copying data, do not contain these lines.

END OF ATTACHMENT 2A

ATTACHMENT 3
DETERMINATION OF PROTECTIVE ACTION RECOMMENDATIONS (PARs)
(Page 1 of 5)

NOTE

Initial notification from the Control Room may utilize PARs based on plant conditions. Once dose assessment begins, PARs should be made utilizing all available data including off-site dose projections, plant conditions and field monitoring data. **Both plant conditions and off-site doses shall be considered for PARs**. The most conservative recommendations should be made. If it is anticipated that a threshold for a PAR will be exceeded, it is neither necessary nor desirable to wait until the threshold is exceeded to make that PAR.

1. PAR Flowchart

   A. PARs Based on Plant Conditions

      1. Begin in the upper left hand corner of the chart by answering the General Emergency (GE) question.

      2. Correctly answer the questions until you reach one of the boxes that provides PAR information based on plant conditions.

      3. If there is no release, Then go to the PAR Worksheet and fill-in the PARs based on plant conditions. The sectors affected can be determined by referring to number 9, Weather Data, in Attachment 1A, Directions for Completing the Florida Nuclear Plant Emergency Notification Form.

      4. If a release is involved, Then go to Section B, PARs Based on Off-site Dose, below.

ATTACHMENT 3
DETERMINATION OF PROTECTIVE ACTION RECOMMENDATIONS (PARs)
(Page 2 of 5)

1. (continued)

NOTE

- If the Class A Model printout, State Notification Form Summary Sheet is available, it should be used to compare dose-based PARs against PARs based on plant conditions.
- Calculated off-site doses should be compared to field monitoring data when determining PARs.

B. PARs Based on Off-site Dose

1. PARs are based on the Total Effective Dose Equivalent (TEDE or total dose) and / or the Committed Dose Equivalent (CDE, thyroid dose). Do NOT use dose rate values.

2. If using the Class A Model, Then in Forecast Mode, print the State Notification Form Summary for computer generated PARs.

a. Go to Section C, PAR Worksheet

3. If using EPIP-09, Off-site Dose Calculations, Then calculate TEDE and CDE in accordance with the procedure.

a. Compare the TEDE dose at 1 mile with the values on the Flowchart. Enter the chart at the appropriate dose level by determining if the dose is between 500 and 999 mrem or between 1000 and 4999 mrem or 5000 mrem or greater.

b. From the selected dose level, move to the right on the chart to the first column, 0-2 miles. The PAR provided corresponds to the calculated TEDE at 1 mile.

c. Enter the PAR in the 0-2 miles block on the TEDE DOSE table below the PAR Flowchart. The sectors affected can be determined by referring to number 9, Weather Data, in Attachment 1A, Directions for Completing the Florida Nuclear Plant Emergency Notification Form.

ATTACHMENT 3
DETERMINATION OF PROTECTIVE ACTION RECOMMENDATIONS (PARs)
(Page 3 of 5)

1. **B.** **3.** (continued)

   d. Continue to determine the corresponding PAR at 2-5 miles using the calculated 2 mile TEDE, at 5-10 miles using the calculated 5 mile TEDE and the 10 miles plus (To Be Determined (TBD) distance) using the calculated 10 mile TEDE, as necessary.

   e. Enter the PAR information in the appropriate blocks of the TEDE DOSE table.

   f. Follow the same methodology for determining the PARs corresponding to the calculated CDE values beginning with the calculated value at 1 mile.

   g. Enter each of the determined PARs in the CDE (Thyroid) DOSE table below the PAR Flowchart.

   h. Go to Section C, PAR Worksheet.

C. PAR Worksheet

1. Fill-in the time / date and emergency class.

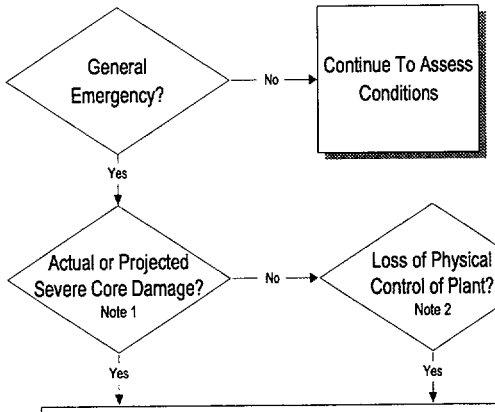
2. In Part A, determine the most conservative PARs by comparing the PARs based on plant conditions against those based on off-site dose. It is important to compare PARs at each distance (0-2, 2-5, 5-10) because the basis of the most conservative PAR could be different at different distances.

3. Enter the most conservative PARs into the table in Part B, Protective Actions Recommended by FPL. Use the word(s) NONE, ALL, ALL REMAINING or list the individual affected sectors by letter.

4. Obtain review and approval.

5. Transfer the approved PARs to the Florida Nuclear Plant Emergency Notification Form.

ATTACHMENT 3
DETERMINATION OF PROTECTIVE ACTION RECOMMENDATIONS (PARs)
(Page 4 of 5)



MILES	NO ACTION	EVACUATE	SHELTER
0-2	None	None	All
2-5	All Remaining	None	(Sectors Affected)
5-10	All	None	None

MILES	NO ACTION	EVACUATE	SHELTER
0-2	None	All	None
2-5	None	(Sectors Affected)	All Remaining
5-10	None	None	All

Notes
1. Severe core damage is indicated by:
   - Loss of critical functions required for core protection (e.g., loss of injection with LOCA) OR
   - High core temperatures (valid CET greater than 700° F) OR
   - CHRRM reading greater than 4.2 E4 R/hr.

2. Loss of physical control of Control Room or vital reactor operating areas to intruders.

PARs Based on Off-Site Dose
(For use with manual dose calculation only. Not to be completed when Class A Model is used)

TEDE DOSE	CDE (Thyroid) DOSE	0-2 Miles Use 1 mile value	2-5 Miles Use 2 mile value	5-10 Miles Use 5 mile value (Beyond 10 miles Use this Column and the 10 mile Dose Value)
TEDE 500*-999 mrem	CDE 1000*-4999 mrem	Shelter All	Shelter (Sectors Affected)	Shelter (Sectors Affected)
TEDE 1000-4999 mrem	CDE 5000-24999 mrem	Evacuate All	Evacuate (Sectors Affected) + Shelter All Remaining	Evacuate (Sectors Affected) + Shelter All Remaining
TEDE 5000 mrem or Greater	CDE 25000 mrem or Greater	Evacuate All	Evacuate All	Evacuate (Sectors Affected) + Shelter All Remaining

*Dose below this level requires NO ACTION

TEDE DOSE

Use the following terms in this table: **NONE, ALL, ALL REMAINING or fill in the letters of the sectors affected.**

Miles	NO ACTION	EVACUATE	SHELTER
0-2			
2-5			
5-10			
> 10			

CDE (Thyroid) DOSE

Use the following terms in this table: **NONE, ALL, ALL REMAINING or fill in the letters of the sectors affected.**

Miles	NO ACTION	EVACUATE	SHELTER
0-2			
2-5			
5-10			
> 10			

ATTACHMENT 3
DETERMINATION OF PROTECTIVE ACTION RECOMMENDATIONS (PARs)
(Page 5 of 5)

PAR WORKSHEET

Time / Date _____ Emergency Class: ☐ **SAE** ☐ **GE**

A. PAR Comparison

After comparing the possible recommendations from the PARs flowchart, the most conservative PARs are based on: (check one)

☐ PLANT CONDITIONS ☐ OFF-SITE DOSE

B. Protective Actions Recommended by FPL:

Use the following terms in this table: **NONE, ALL, ALL REMAINING Or fill in the letters of the sectors affected.**

	NO ACTION SECTORS	EVACUATE SECTORS	SHELTER SECTORS
0-2 miles			
2-5 miles			
5-10 miles			
10-TBD miles*			

*If necessary, add to State Notification Form.

Control Room

Signature _____
Emergency Coordinator

Technical Support Center

Signature _____ _____
TSC EC Assistant / Logkeeper TSC HP Supervisor or TSC Chemistry Supervisor

---

Emergency Operations Facility

Signature _____ _____
EOF RM OPS Advisor / Logkeeper EOF HP Manager

END OF ATTACHMENT 3

ATTACHMENT 4
¶8 NRC REACTOR PLANT EVENT NOTIFICATION WORKSHEET
(Page 1 of 2)

NRC FORM 361 (12-2000)

U.S. NUCLEAR REGULATORY COMMISSION OPERATIONS CENTER

REACTOR PLANT EVENT NOTIFICATION WORKSHEET

EN #

NOTIFICATION TIME	FACILITY OR ORGANIZATION	UNIT	NAME OF CALLER	CALL BACK #

EVENT TIME & ZONE	EVENT DATE	POWERMODE BEFORE	POWERMODE AFTER

EVENT CLASSIFICATIONS		1-Hr. Non-Emergency 10 CFR 50.72(b)(1)			4-Hr. Non-Emergency 10 CFR 50.72(b)(2)			8-Hr. Non-Emergency 10 CFR 50.72(b)(3)		
☐	GENERAL EMERGENCY GEN/AAEC	☐	TS Deviation	ADEV	☐	(i) TS Required S/D	ASHU	☐	(ii)(A) Degraded Condition	ADEG
☐	SITE AREA EMERGENCY SIT/AAEC	60-Day Optional 10 CFR 50.73(a)(1)			☐	(iv)(A) ECCS Discharge to RCS	ACCS	☐	(ii)(B) Unanalyzed Condition	AUNA
☐	ALERT ALE/AAEC	☐	(v)(A) Safe S/D Capability	AINA	☐	(iv)(B) RPS Actuation (scram)	ARPS	☐	(iv)(A) Specified System Actuation	AESF
☐	UNUSUAL EVENT UNU/AAEC	☐	(v)(B) RHR Capability	AINB	☐	(xi) Offsite Notification	APRE	Other Unspecified Requirement (Identify)		
☐	50.72 NON-EMERGENCY (see next columns)	☐	(v)(C) Control of Rad Release	AINC	☐	(xii) Offsite Medical	AMED	☐		NONR
☐	PHYSICAL SECURITY (73.71) DDDD	☐	(v)(D) Accident Mitigation	AIND	☐	(xiii) Loss Comm/Asmt/Resp	ACOM	☐		NONR
☐	MATERIAL/EXPOSURE B???	☐	Invalid Specified System Actuation	AINA						
☐	FITNESS FOR DUTY HFIT									
☐	OTHER UNSPECIFIED REQMT. (see last column)									
☐	INFORMATION ONLY NNF									

DESCRIPTION

Include: Systems affected, actuations and their initiating signals, causes, effect of event on plant, actions taken or planned, etc. (Continue on back)

NOTIFICATIONS	YES	NO	WILL BE
NRC RESIDENT			
STATE(s)			
LOCAL			
OTHER GOV AGENCIES			
MEDIA/PRESS RELEASE			

ANYTHING UNUSUAL OR NOT UNDERSTOOD? ☐ YES (Explain above) ☐ NO

DID ALL SYSTEMS FUNCTION AS REQUIRED? ☐ YES ☐ NO (Explain above)

MODE OF OPERATION UNTIL CORRECTED:

ESTIMATED RESTART DATE:

ADDITIONAL INFO ON BACK ☐ YES ☐ NO

ATTACHMENT 4
¶8 NRC REACTOR PLANT EVENT NOTIFICATION WORKSHEET
(Page 2 of 2)

RADIOLOGICAL RELEASES: CHECK OR FILL IN APPLICABLE ITEMS (specific details/explanations should be covered in event description)

☐ 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 uCi/sec			0.01 Ci
Particulate			1 uCi/sec			1 mCi
Liquid (excluding tritium and dissolved noble gases)			10 uCi/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 AND UNITS:	PRIMARY / SECONDARY

LIST OF SAFETY RELATED EQUIPMENT NOT OPERATIONAL

EVENT DESCRIPTION (Continued from front)

END OF ATTACHMENT 4

¶7 ATTACHMENT 4A
DIRECTIONS FOR COMPLETING THE NRC REACTOR PLANT EVENT NOTIFICATION WORKSHEET
(Page 1 of 2)

A. Contact information - to be completed following contact

1. Name of the person contacting the NRC or other designated FPL contact.
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. Reactor Plant Event Notification Worksheet, Page 1

> **NOTE**
> The "EN #" is provided by the NRC.

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. Call back # - 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 Easter 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.

> **NOTE**
> Abbreviations / acronyms (e.g., UNU / AAEC, SIT / AAEC, etc.) are for NRC use only.

8. Event Classifications - check one of the four blocks for General Emergency, Site Area Emergency, Alert, or Notification of Unusual Event.

¶7 ATTACHMENT 4A
DIRECTIONS FOR COMPLETING THE NRC REACTOR PLANT 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. Reactor Plant Event Notification Worksheet, Page 2

1. Fill in as much of the information on 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.

D. Approval

1. Information entered on the worksheet shall be reviewed and approved by the EC or RM (if used in the EOF), prior to transmission.

2. The EC / RM may initial on the worksheet to indicate approval. There is no formal sign-off location on the worksheet.

END OF ATTACHMENT 4A

FPL

ST. LUCIE PLANT

HEALTH PHYSICS PROCEDURE

SAFETY RELATED

Procedure No.
HP-203
Current Revision No.
19
Effective Date
10/18/01

Title:

PERSONNEL ACCESS CONTROL DURING EMERGENCIES

Responsible Department: **HEALTH PHYSICS**

REVISION SUMMARY:

Revision 19 – Clarified re-entry instructions and use of forms. (J.R. Walker, 10/11/01)

Revision 18 – THE PROCEDURE HAS BEEN COMPLETELY REWRITTEN. Streamlined Re-entry paperwork. Changed Radiation Protection Technician to Health Physics Technician. Deleted TMI Shielding Study reference and maps, and moved them to HP-201. Made administrative changes. (D. Calabrese, 04/26/01)

Revision	FRG Review Date	Approved By	Approval Date
0	02/01/82	J.H. Barrow (for) Plant General Manager	02/04/82
Revision	FRG Review Date	Approved By	Approval Date
19	10/11/01	R.G. West Plant General Manager	10/11/01
		N/A Designated Approver	
		N/A Designated Approver (Minor Correction)	

S___OPS	
DATE	
DOCT	PROCEDURE
DOCN	HPP-203
SYS	
COM	COMPLETED
ITM	19

TABLE OF CONTENTS

NOTE

Initial work activities directed by the OSC Supervisor, at the ALERT LEVEL, are considered pre-re-entry and certain aspects of this procedure may be relaxed (e.g., HP paperwork & coverage). Following a site evacuation order or if radiological conditions exist outside the RCA, all provisions of this procedure are required for re-entry into the affected area.

1.0 PURPOSE

1.1 This procedure provides guidelines for control of personnel access to the plant and radiologically affected areas during and following an emergency.

2.0 PRECAUTIONS AND LIMITATIONS

2.1 The Emergency Coordinator (EC) may waive the requirements of this procedure to allow access for the search and rescue of injured or lost personnel or to place the plant in a safe condition.

2.2 Re-entry into the plant following evacuation during an emergency shall be made only when authorized by the EC.

2.3 All re-entry teams dispatched from the Operational Support Center (OSC) shall be briefed by the HP Supervisor in the Operational Support Center (HPOSC) on the radiological conditions that are known or expected to be encountered, their allowed exposure, and protective clothing and equipment necessary.

2.4 Entry to the plant shall be through the East Security Building unless otherwise directed by the EC.

2.5 The re-entry access control point is established at the OSC at a location(s) designated by the Technical Support Center Health Physics Supervisor (TSCHPS).

2.6 The EC may adjust access control restrictions if the plant conditions and radiological conditions warrant.

CAUTION

The area radiation monitors provide only the dose rates at the detector locations. Radiation levels in areas outside the immediate detector locations may be significantly higher.

2.7 Entries into radiation areas exceeding 10 R/hr should not be made without EC or TSCHPS authorization.

2.8 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.

2.9 Personnel shall be restricted from further exposure if their DDE reaches 5.0 Rem or if their thyroid CDE reaches 50 Rem.

2.10 Personnel reaching the dose limits in 2.9 above may be allowed to receive additional exposure after a determination of dose has been finalized by the reading of their TLD or bioassay as appropriate.

3.0 DEFINITIONS

3.1 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 Emergency Coordinator (EC).

3.2 Re-entry Team - A group of qualified personnel who will enter an evacuated area under the authorization of the EC to accomplish an assigned task (e.g., rescue, damage control, repair, etc.). The initial Re-entry Team shall consist of at least two persons one of whom shall be an OSC Health Physics Technician (HPT).

4.0 REFERENCES

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, Operating Experience, 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.

Ψ Indicates a step that requires a sign off on an attachment.

4.1 St. Lucie Plant Radiological Emergency Plan (E-Plan)

4.2 E-Plan Implementing Procedures (EPIP 00-13).

4.3 Nuclear Energy Policy on Exposure Limits for Emergency Response Personnel, Revision to Policy Statement, Ltr No. JNO-HP-94-056, October 26, 1994.

4.4 HP-112, Multibadging

4.5 HP 201, Emergency Personnel Exposure Control

4.6 HP-206, Analysis of Emergency In-plant Air Samples

4.7 $¶_1$ Condition Report, CR-01-0078, OSC Re-Entry Team Performance

5.0 RECORDS REQUIRED

5.1 The following documents when completed shall be maintained in the plant files in accordance with QI-17-PSL-1 "Quality Assurance Records." /R19

1. Form HP 203.2, Emergency Access Control Log Sheet
2. Form HP 203.3, Emergency Responder Dose Control Form
3. Form HP 203.4, Emergency Exposure Authorization

6.0 INSTRUCTIONS

6.1 The Health Physics representative in charge of HP activities at the OSC (HPOSC) is responsible for ensuring access control to radiologically affected areas. The HPOSC should perform the following steps:

1. Contact the TSCHPS to determine where the access control point(s) are to be established.
2. Select an OSC HP Tech (HPT) to man the access control point(s).
3. Brief the Re-entry Team members on the conditions within the areas using available information from surveys and area monitors.
4. Evaluate the need for multibadges or extremity monitoring.
5. Instruct the Re-entry Team members that no one is permitted to enter the area without a completed Re-entry Team Form (EPIP-05) unless authorized by the Nuclear Plant Supervisor (NPS)/Emergency Coordinator (EC).
6. Review items on form HP-203.1 for each Re-entry Team.
7. Instruct the Re-entry Team members that initial entry into an evacuated area must be made by at least two people, one of whom must be an OSC HPT.
8. Coordinate with Re-entry Supervisors on selection of Re-entry Team members (exposure histories, respiratory qualification status, authorization to exceed 10CFR Part 20 exposure limits, etc.).
9. Complete Form HP-203.4, "Emergency Exposure Authorization," for each Re-entry Team which may exceed the 10CFR Part 20 exposure limits.

/R19 /R19

END OF SECTION 6.1

6.2 The OSC HPT at the access control point should perform the following steps:

1. Position himself in such a manner that personnel accessing the area must pass by him.
2. Review the Re-entry Team Form (EPIP-05) to ensure that the individual is authorized entry and that the individual has received a briefing by OSC supervision. /R19
3. Deny access to anyone who is NOT included on the Re-entry Team Form (EPIP-05). /R19
4. Log the individual into the area on the Emergency Access Control Log Sheet form (HP 203.2) for each individual entering the area.
5. When an individual exits from the area, complete the log entry on form HP 203.2.
6. Report to the HPOSC any personnel contamination or exposures in excess of the allowed exposure.
7. Ensure that personnel monitoring devices are taken by the individual to the OSC for further processing and recording.
8. Check items removed from the area for contamination.
9. In the event that an individual is contaminated, detain the individual and request assistance from the HPOSC to escort and decontaminate him. /R19

END OF SECTION 6.2

6.3 The OSC Dosimetry Technician performs the following:

1. Issue TLDs to personnel not in possession of their regular TLD.

2. Check respirator quals of re-entry team members.

3. At the conclusion of the re-entry, the dose received by the individual shall be entered on form HP-203.3, "Emergency Response Dose Control," to maintain a current dose record of DDE and CDE (Thyroid) for the individual. It should be entered after air sample results have been determined in accordance with HP-206, "Analysis of Emergency In-plant Air Samples."

END OF SECTION 6.3

HP 203.1

¶1 EVACUATED AREA RE-ENTRY CHECKLIST

(Page 1 of 1)

TEAM NO. _____

_____ Dose and Dosimetry

1. Team member names and TLD numbers to Dosimetry
2. Exposure limits
3. Dose extension – refer to Form HP-203.4
4. Appropriate dosimetry

_____ Respiratory Protection

1. SCBA
2. Respirator
3. Other

_____ Dress-out

1. Dress-out requirements

_____ Briefing

1. Radiological considerations
2. Ingress/egress
3. Stay times
4. Decon
5. Other

Completed by: _____ Date: ___/___/___

HP 203.2

EMERGENCY ACCESS CONTROL LOG SHEET

(Page 1 of 1)

Date____/____/____ Location________________________

Name	TLD #	Time In	Time Out	Init.

HP 203.3

EMERGENCY RESPONDER DOSE CONTROL FORM

(Page 1 of 1)

Name:_____ TLD#:_____ Department:_____

Date	Time In	Time Out	Air Sample No.	Gamma Dose (DDE) Limit (mrem)	Gamma Dose (DDE) This Entry (mrem)	Previous Gamma Dose (DDE) Total (mrem)	Update Gamma (1) Dose (DDE) Total (mrem)	Thyroid Dose Limit (CDE) (mrem)	Thyroid Dose (CDE) This Entry (mrem)	Previous Thyroid Dose (CDE) Total (mrem)	Updated Thyroid (2) Dose (CDE) Total (mrem)

(1) Gamma Dose (DDE) Limit shall not exceed 5,000 mrem without EC authorization

(2) Thyroid Dose (CDE) Limit shall not exceed 50,000 mrem without EC authorization

HP 203.4
EMERGENCY EXPOSURE AUTHORIZATION
(Page 1 of 2)

I. Team Information

	Name/Dept	TLD	Signature*	Date/Time
1.	_____	_____	_____	_____
2.	_____	_____	_____	_____
3.	_____	_____	_____	_____
4.	_____	_____	_____	_____

* Your signature indicates that you have received and understand the briefing information regarding the risks associated with this exposure.

II. Reason for Entry

_____
_____
_____

III. Authorization

Exposure Limit:_____ TSC HPS[1]:_____ Date:_____

Emergency Coordinator[1]:_____ Date:_____

Recovery Manager[1,2]:_____ Date:_____

[1]Signature may be authorized by phone
[2]Signature not mandatory

IV. Briefing Information

A. For exposures exceeding 5 rem TEDE or 100 rem CDE:

1. Persons should be volunteers and experienced at the task requiring the re-entry (for expected exposures exceeding 25 rem TEDE or 250 rem CDE, persons **should be above the age of 45**).

2. Persons shall have 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. (See below)

HP 203.4
EMERGENCY EXPOSURE AUTHORIZATION
(Page 2 of 2)

B. Effects from an acute dose of radiation:

1. Prompt[1]

   a. 5 - 100 Rem — Minor changes in the blood, like reduced white cell and platelet counts.

   b. > 100 Rem — Can cause nausea, vomiting, fatigue, loss of appetite, and loss of hair, severity increases with increased dose.

   c. > 450 Rem — Can be fatal without proper medical care.

2. Delayed - Cancer/Life Span[2], consult table below:

Age at Exposure	10 Rem Exposure Cancer Risk	10 Rem Exposure Approx. Days Lost	25 Rem Exposure Cancer Risk	25 Rem Exposure Approx. Days Lost
21-30	< 0.3%	50	< 0.7%	124
31-40	< 0.3%	40	< 0.7%	100
41-50	< 0.3%	31	< 0.7%	77
51-60	< 0.3%	21	< 0.7%	65
61-70	< 0.3%	12	< 0.7%	29

3. Delayed - Genetic Effects[3]

   a. One Rem results in an estimated risk of genetically-related disorders in all generations (current and future) of 1x10 E-4 per person-rem (or 1 in 10,000).

References:

[1] Knapp, S. and M. Cooper, 1995. A Layman's Guide to Radiation Safety, FPL St. Lucie Nuclear Plant, Ft. Pierce, Florida 86 pp.

[2] Derived from Cohen, Bernard L., 1990. The Nuclear Energy Option, Plenum Publication Corporation, New York, New York, 338 pp.

[3] EPA 400-R-92-001, Manual of Protective Action Guides and Protective Actions for Nuclear Incidents, Appendix B Office of Radiation Programs US EPA, Washington, DC, p. B-23.