



June 27, 2000

L-2000-134
10 CFR 50 Appendix E

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

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

In accordance with 10 CFR 50 Appendix E, enclosed is a copy of each of the revised Emergency Plan Implementing Procedures (EIPs).

<u>Number</u>	<u>Title</u>	<u>Revision</u>	<u>Implementation Date</u>
EPIP-02	Duties And Responsibilities Of The Emergency Coordinator	6	June 1, 2000
EPIP-04	Activation And Operation Of The Technical Support Center	6	June 1, 2000
EPIP-06	Activation And Operation Of The Emergency Operations Facility	3	June 1, 2000
EPIP-08	Off-Site Notifications And Protective Action Recommendations	0	June 1, 2000

EPIP-08 was created in response to a new state notification form and to implement human factors improvements in the areas of off-site notifications and Protective Action Recommendations (PARs). EPIP-02, EPIP-04, and EPIP-06 were revised to support the development of this new procedure.

EPIP-02 Revision 6 deleted information and instructions for off-site notifications and PARs. EPIP-04 Revision 6 changed the responsibility for completion of the State Notification Form from the Technical Support Center (TSC) Hot Ring Down (HRD) Communicator to the TSC Emergency Coordinator (EC) Assistant/Logkeeper. A new Problem Solving Team (PST) Activities List was also added. EPIP-06 Revision 3 was issued to include a new PAR briefing attachment. The off-site notification and PAR attachment was removed and

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the responsibility for preparing the State Notification Form was transferred from the Emergency Operations Facility (EOF) HRD Communicator to the EOF Recovery Manager (RM) Ops Advisor/Logkeeper. Alternate instructions for procedure revision verification and an Emergency Technical Manager (ETM) Activities List were added. Editorial and administrative changes were also made to the preceding EIPs. Please contact us if there are any questions regarding these procedures.

Very truly yours,



Rajiv S. Kundalkar
Vice President
St. Lucie Plant

RSK/tlt

Enclosures

cc: Regional Administrator, USNRC, Region II (2 copies)
Senior Resident Inspector, USNRC, St. Lucie Plant w/o



FPL

ST. LUCIE PLANT EMERGENCY PLAN IMPLEMENTING PROCEDURE

SAFETY RELATED

Procedure No.
EPIP-02

Current Rev. No.
6

Effective Date:
06/01/00

Title:

DUTIES AND RESPONSIBILITIES OF THE EMERGENCY COORDINATOR

Responsible Department: **EMERGENCY PLANNING**

Revision Summary

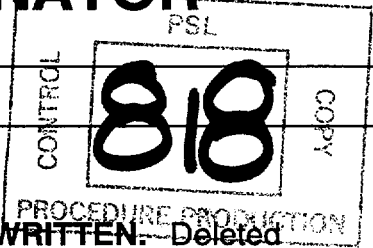
Revision 6 - THIS PROCEDURE HAS BEEN COMPLETELY REWRITTEN. Deleted information and instructions for off-site notifications and PARs. Relocated to new EPIP-08 off-site notifications and protective action recommendations. Addressed early activation of emergency response facilities per PMAI PM00-13-122. Made administrative and editorial changes. (Donna Calabrese, 05/31/00)

Revision 5 - Added instructions for implementation / actuation of new gai-tronics alarm - emergency plan activation and made human factors improvements. (J. R. Walker, 01/18/00)

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

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

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



Revision	FRG Review Date	Approved By	Approval Date	S__OPS
0	12/15/97	J. Scarola Plant General Manager	12/15/97	DATE _____ DOCT PROCEDURE _____ DOCN EPIP-02 _____ SYS _____
6	05/30/00	R. G. West Plant General Manager	05/31/00	COMP COMPLETED _____ ITM 6 _____
Designated Approver				

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EPIP-02		

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1.0 PURPOSE

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

NOTE

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

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

2.0 REFERENCES/RECORDS REQUIRED/COMMITMENT DOCUMENTS

2.1 References

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

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2.0 REFERENCES/RECORDS REQUIRED/COMMITMENT DOCUMENTS
(continued)

2.1 (continued)

9. EPA 400-R-92-001, Manual of Protective Actions Guides and Protective Actions for Nuclear Incidents, October, 1991.

10. St. Lucie Plant General Policy PSL-110, Emergency Response.

2.2 Records Required

¶₁₀ A copy of the checklists or data generated by this procedure shall be maintained in the plant files in accordance with QI-17-PSL-1, Quality Assurance Records. Records include:

1. Emergency Class Checklists

2.3 Commitment Documents

¶₁ **1.** PMAI PM96-04-165, "ITR 96-006" (Unusual Event Declared Due to Dropped Rod)

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

¶₃ **3.** PMAI PM96-09-185, Condition Report CR-96-1750 (Off-site Notification Using Commercial Phone)

¶₅ **4.** PMAI PM96-05-233, (Off-site Notification Process).

¶₆ **5.** Condition Report CR 96-2389, (Off-site Dose Calculations).

¶₇ **6.** Condition Report CR 98-1536 (EC Responsibilities Remain in the Control Room).

¶₈ **7.** PMAI PM98-09-006 (Control of NLOs Under E-Plan).

¶₉ **8.** Condition Report CR 99-1406 (Field Operator Dosimetry Under E-Plan).

¶₁₀ **9.** PMAI PM99-10-191, Condition Report CR 99-1656 (Quality Records, Downpower Guidance Due to Hurricanes).

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2.0 REFERENCES/RECORDS REQUIRED/COMMITMENT DOCUMENTS
(continued)

2.3 (continued)

¶₁₁ **10.** PMAI PM99-10-142, Condition Report CR 99-1647 (EC Turnover).

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

¶₁₃ **12.** PMAI PM00-01-043, (Gai-Tronics E-Plan Alarm).

¶₁₄ **13.** PMAI PM00-03-122, (Early Activation of ERFs).

3.0 RESPONSIBILITIES

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

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

Specific Responsibilities of the EC are:

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

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

Changes in Emergency Classification based on changing conditions.

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

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

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4.0 DEFINITIONS

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

4.2 Release (during any declared emergency)

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

OR

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

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5.0 INSTRUCTIONS

5.1 General Overview

- ¶_{7,11} 1. Upon Declaration of an emergency classification the NPS becomes the EC.

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

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

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

If the TSC is activated, Then the EC position is turned over to an EC qualified member of plant management and the position relocated to the TSC. The prospective EC receives a turnover (refer to Attachment 3, Turnover Guidelines) from the Control Room EC and then reports to the TSC. Following verification of TSC operational readiness, the prospective EC accepts EC responsibility from the Control Room EC. The TSC EC may temporarily turnover responsibility to the TSC OPS Coordinator as the need arises.

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

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5.0 INSTRUCTIONS

5.1 General Overview

2. (continued)

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

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

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

3. Order of Succession

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

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

4. Watch Relief

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

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5.0 INSTRUCTIONS

5.1 General Overview

¶₁₄ 5. Early Activation of Emergency Response Facilities

It may be useful to have technical and/or operational support available early in an emergency prior to when the Technical Support Center (TSC), Operational Support Center (OSC), or Emergency Operations Facility (EOF) is required to be operational. Activation of any of these facilities does not require declaration of an emergency class or entry into a specific emergency classification. If early activation of one or more of the facilities is desired, then follow these guidelines:

- A.** This is an option during normal working hours only.
- B.** A page announcement should be made to request that appropriate Emergency Response Organization personnel to report to the [identify what facility/facilities is/are to be activated early].
- C.** Turnover of EC responsibilities is done in accordance with Step 5.1.1., above.
- D.** The E-Plan Activation Alarm is used only when the Emergency Response Facilities (ERFs) are to be activated in accordance with the requirements of the Emergency Plan (i.e., at the Alert or higher emergency level) and is provided for in the checklist included in this procedure.
- E.** Staff augmentation due to actual facility activation is to be done in accordance with the Alert Checklist or Site Area or General Emergency Checklist which are part of this procedure.

6. Security Event

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

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5.0 INSTRUCTIONS (continued)

5.1 General Overview (continued)

6. (continued)

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

Emergency Response Facility (ERF) activation

Local or Site Evacuation

Site or Radiation Controlled Area (RCA) access

Operator field activities

Unit shutdown

7. Severe Weather Considerations

¶₁₀ If a hurricane warning is in effect, and either one or both Unit(s) is/are in Mode 1, 2 or 3, Then use the following criteria for unit shutdown:

- A.** For storms projected to reach a Category 1 or 2, the unit(s) shall be placed in HOT STANDBY (Mode 3) or below at least two (2) hours before the projected onset of sustained hurricane force winds within the Owner Controlled Area and both units shall remain off-line for the duration of the hurricane force winds (or restoration of reliable offsite power).
- B.** For storms projected to reach Category 3, 4 and 5 prior to landfall, the units shall be shut down to a temperature less than 350 degrees T ave. at least two (2) hours before the projected onset of sustained hurricane force winds within the Owner Controlled Area and both units shall remain off-line for the duration of the hurricane force winds (or restoration of reliable offsite power).
- C.** Establish an acceptable update frequency with state and local officials.

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5.0 INSTRUCTIONS (continued)

5.1 General Overview (continued)

8. Drill Messages

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

END OF SECTION 5.1

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5.0 INSTRUCTIONS (continued)

TIME / INIT

5.2 Emergency Declaration Checklist

CAUTION

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

NOTE

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

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

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

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

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

A. Section 5.3 (Notification of) **Unusual Event Checklist** ___/___

B. Section 5.4 **Alert Checklist** ___/___

C. Section 5.5 **Site Area or General Emergency Checklist** ___/___

END OF SECTION 5.2

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5.0 INSTRUCTIONS (continued)

TIME / INIT

5.3 UNUSUAL EVENT CHECKLIST

Date ____/____/____
Message # _____

NOTE

- Complete a new checklist for each notification made during an Unusual Event emergency.
- The term "release" has a specific definition in Section 4.0 of this procedure.

¶₆

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

NOTE

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

4. If the DCS is not available to perform off-site notifications, Then complete required notifications in accordance with EPIP-08, Off-site Notifications and Protective Action Recommendations. _____/_____

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5.0 INSTRUCTIONS (continued)

TIME / INIT

5.3 UNUSUAL EVENT CHECKLIST (continued)

- 5. Ensure notification of Plant Management, Security and the Nuclear Division Duty Officer (NDDO). This may be accomplished by the DCS. ____/____
- 6. Reassess corrective and protective actions. Verify assigned activities are under way and proper progress is being made. Reassign personnel and emergency teams as necessary.
- 7. Continue to assess conditions and review any changes against the Emergency Action Levels (EALs) in EPIP-01, Classification of Emergencies.
- 8. Reclassify the event as necessary and follow instructions in the appropriate checklist.

1/2

NOTE
New notification forms shall be completed for all updates.

- 9. If the classification is unchanged but a significant change in plant conditions has occurred, Then start a new Unusual Event Checklist. ____/____
- 10. If the event can be terminated, Then complete the notification forms (State, NRC) and notify the following:
 - State Warning Point ____/____
 - Plant Management ____/____
 - Security ____/____
 - NDDO ____/____
 - NRC ____/____
- 11. All Unusual Event Checklist items completed/satisfied. ____/____

END OF SECTION 5.3

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5.0 INSTRUCTIONS (continued)

TIME / INIT

5.4 ALERT CHECKLIST

Date ____/____/____
Message # _____

NOTE

- For assistance with control of Non-licensed Operators (NLOs), refer to:
 - Attachment 4, Re-entry Guidelines.
 - Attachment 5, Basis for Exposure Limits for Emergency Response Personnel.
- Complete a new checklist for each notification made during an Alert emergency.
- The term "release" has a specific definition in Section 4.0 of this procedure.

¶₆

1. If a radioactive release has occurred or is in progress, Then notify Chemistry to promptly perform off-site dose calculations per EPIP-09, Off-site Dose Calculations, and report results to the EC. If Chemistry is unavailable, Then have the DCS call out a Chemist.

____/____

2. If evacuation of an area is necessary, Then initiate a local evacuation in accordance with EPIP-07, Conduct of Evacuations/Assembly. (Refer to Attachment 2, Criteria for Evacuation.)

____/____

¶₁₃

3. Sound the Emergency Plan (E-Plan) Activation Alarm (N/A for updates).

____/____

4. Notify plant personnel of the emergency declaration using Gai-tronics and boost function (N/A for updates).

"Attention all plant personnel, Unit (1) / (2) has declared an ALERT."

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5.0 INSTRUCTIONS (continued)

TIME / INIT

5.4 ALERT CHECKLIST (continued)

4. (continued)

"All emergency response organization personnel report at once to your assigned emergency response facility."

"All non-emergency response organization personnel report to your normal work location or contact your supervisor."

Repeat the announcement. _____/_____

11₂

- 5. If a release is in progress, Then review personnel access with Health Physics personnel and notify Security personnel with any special instructions (N/A for updates).** _____/_____

NOTE

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

- 6. If the DCS is not available to initiate staff augmentation, Then complete the call-out process in accordance with EPIP-03, "Emergency Response Organization Notification/ Staff Augmentation." (N/A for updates.)** _____/_____

- 7. If the DCS is not available to perform off-site notifications, Then complete required notifications in accordance with EPIP-08, Off-site Notifications and Protective Action Recommendations.** _____/_____

- 8. Verify notification of Plant Management, Security and the NDDO. This may be accomplished by the DCS.** _____/_____

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5.0 INSTRUCTIONS (continued) TIME / INIT

5.4 ALERT CHECKLIST (continued)

9. Initiate the Operations Department Accountability Aid for both Unit 1 and Unit 2 and provide this list to the TSC when requested. This may be accomplished by the DCS. (N/A for updates). ____/____

10. Ensure Operations field personnel have returned to the Control Room to obtain emergency Electronic Personal Dosimetry (EPD) from the HP Kit. ____/____

11. Reassess corrective and protective actions. Verify assigned activities are under way and proper progress is being made. Reassign personnel and emergency teams as necessary.

12. Continue to assess conditions and review any changes against the Emergency Action Levels (EALs) in EPIP-01, Classification of Emergencies.

13. Reclassify the event as necessary and follow instructions in the appropriate checklist.

12

NOTE

New notification forms shall be completed for all updates.

14. If the classification is unchanged but a significant change in plant conditions has occurred, Then start a new Alert Checklist. ____/____

15. If a State/Local notification has not been completed in the last 60 minutes, Then provide a routine update. Start a new notification form and make the appropriate notifications. ____/____

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5.0 INSTRUCTIONS (continued)

TIME / INIT

5.4 ALERT CHECKLIST (continued)

16. If the event can be terminated, Then complete the notification forms (State, NRC) and notify the following:

State Warning Point _____/_____

Plant Management _____/_____

Security _____/_____

NDDO _____/_____

NRC _____/_____

17. All Alert Checklist items completed/satisfied. _____/_____

END OF SECTION 5.4

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5.0 INSTRUCTIONS (continued)

TIME / INIT

5.5 SITE AREA OR GENERAL EMERGENCY CHECKLIST

Date ____/____/____
Message # _____

NOTE
<ul style="list-style-type: none"> • For assistance with control of Non-licensed Operators (NLOs), refer to: <ul style="list-style-type: none"> ■ Attachment 4, Re-entry Guidelines ■ Attachment 5, Basis for Exposure Limits for Emergency Response Personnel • Complete a new notification form for each notification made during a Site Area Emergency or General Emergency. • The term "release" has a specific definition in Section 4.0 of this procedure.

¶₆

1. If a radioactive release has occurred or is in progress, Then notify Chemistry to promptly perform off-site dose calculations per EPIP-09, Off-site Dose Calculations, and report results to the Emergency Coordinator. If Chemistry is unavailable, Then have the DCS call out a Chemist. _____/_____
2. If a radioactive release has occurred or is in progress, Then identify wind direction. _____/_____

NOTE
<p><u>When</u> the EOF is declared operational <u>AND</u> the Recovery Manager has assumed responsibility, <u>Then</u> notifications and PARs will be performed from the EOF.</p>

¶₂

3. If a release is in progress, Then review personnel access with Health Physics personnel and notify Security personnel with any special instructions (N/A for updates). _____/_____

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5.0 INSTRUCTIONS (continued) TIME / INIT

5.5 SITE AREA OR GENERAL EMERGENCY CHECKLIST (continued)

- ¶13 4. If the Technical Support Center, Operational Support Center and Emergency Operations Facility are **NOT** activated, Then:
- A. Sound the Emergency Plan (E-Plan) Activation Alarm (N/A for updates). ____/____
 - B. Notify plant personnel of the emergency declaration using Gai-tronics and boost function (N/A for updates).

 "Attention all plant personnel, Unit (1)/(2) has declared a (SITE AREA EMERGENCY)/(GENERAL EMERGENCY)."

 "All emergency response organization personnel report at once to your assigned emergency response facility." ____/____
 - C. Repeat Steps A and B above (N/A for updates). ____/____
5. If the site is **NOT** evacuated, Then sound the Site Evacuation Alarm. ____/____

NOTE

To provide a clear announcement, the following step should be read and the content of the announcement determined prior to starting the announcement.

- 6. Make the necessary plant announcement using Gai-tronics and boost function:
 - A. If done in Step 5.5.4 above, Then GO TO Step 5.5.6.B.

OR

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5.0 INSTRUCTIONS (continued)

TIME / INIT

5.5 SITE AREA OR GENERAL EMERGENCY CHECKLIST (continued)

6. (continued)

A. (continued)

Announce the following (N/A for updates):

"Attention all plant personnel, Unit (1)/(2) has declared a (SITE AREA EMERGENCY)/
(GENERAL EMERGENCY)."

____ / ____

NOTE

An alternate off-site Assembly Area at the Jensen Beach parking area is available if the wind direction is from 146° to 270°.

B. If the site is **NOT** evacuated and there is **NOT** or has **NOT** been a radiological release, Then announce the following:

"All non-emergency response organization personnel are to commence evacuation of the Owner Controlled Area, report to your vehicle and proceed to your homes."

OR

If the site is **NOT** evacuated and there is or has been radiological release, Then announce the following:

"All non-emergency response organization personnel are to commence evacuation of the Owner Controlled Area. Persons leaving the site are to proceed (North)/(South) away from the plant to (Jaycee Park)/(Jensen Beach Parking Area) for contamination check, accountability and further instructions."

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5.0 INSTRUCTIONS (continued)

TIME / INIT

5.5 SITE AREA OR GENERAL EMERGENCY CHECKLIST (continued)

7. If a SITE AREA EMERGENCY, Then REPEAT
Steps 5.5.6.A and 5.5.6.B above (N/A for updates).

OR

If a GENERAL EMERGENCY, Then REPEAT
Step 5.5.6.A above (N/A for updates).

8. If the site is **NOT** evacuated, Then order Security to
ensure evacuation of the Owner Controlled Area and
to report personnel accountability as soon as
possible (N/A for updates). _____/_____

CAUTION

PARs are always required for General Emergencies and may be required
for lesser emergencies. Refer to EPIP-08, Off-site Notifications and
Protective Action Recommendations.

NOTE

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

9. If the TSC and OSC are **NOT** activated, Then: _____/_____

- A. Notify the DCS to initiate staff augmentation
in accordance with EPIP-03, Emergency Response
Organization Notification/Staff Augmentation,
if available.

OR

- B. Complete the call-out process in accordance
with EPIP-03.

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5.0 INSTRUCTIONS (continued) TIME / INIT

5.5 SITE AREA OR GENERAL EMERGENCY CHECKLIST (continued)

- | | | |
|----------------------|--|----------------|
| | <p>10. <u>If</u> the DCS is NOT available to perform off-site notifications, <u>Then</u> complete required notifications in accordance with EPIP-08, Off-site Notifications and Protective Action Recommendations.</p> | <p>___/___</p> |
| | <p>11. Verify notification of Plant Management, Security and NDDO. This may be accomplished by the DCS.</p> | <p>___/___</p> |
| | <p>12. Initiate the Operations Department Accountability Aid for both Unit 1 and Unit 2 and provide this list to the TSC when requested. This may be accomplished by the DCS. (N/A for updates).</p> | <p>___/___</p> |
| | <p>13. Verify with Security that the evacuation of the Owner Controlled Area has been completed and all personnel have been accounted for (N/A for updates).</p> | <p>___/___</p> |
| | <p>14. Complete notification forms and make notification to State Warning Point and NRC when the evacuation is complete. This may be accomplished by the DCS or TSC. (N/A for updates).</p> | <p>___/___</p> |
| <p>¶₉</p> | <p>15. Ensure Operations field personnel have returned to the Control Room or OSC to obtain emergency Electronic Personal Dosimetry (EPD) (N/A for updates).</p> | <p>___/___</p> |
| <p>¶₈</p> | <p>16. Direct that all Non-licensed Operators (NLOs), from both Units, report to the OSC (when operational) following evacuation of the Owner Controlled Area (N/A for updates).</p> | <p>___/___</p> |
| | <p>17. Reassess corrective and protective actions. Verify assigned activities are under way and proper progress is being made. Reassign personnel and emergency teams as necessary.</p> | <p>___/___</p> |

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5.0 INSTRUCTIONS (continued)

TIME / INIT

5.5 SITE AREA OR GENERAL EMERGENCY CHECKLIST (continued)

18. Continue to assess conditions and review any changes against the Emergency Action Levels (EALs) in EPIP-01, Classification of Emergencies. ___/___

19. Upgrade to a General Emergency, as necessary. Start new checklist upon upgrading. ___/___

20. If the classification is unchanged but a significant change in plant conditions has occurred AND the EOF is **NOT** operational, Then start a new Site Area or General Emergency Checklist, prepare notification forms and make the appropriate notifications as soon as possible. ___/___

CAUTION

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

NOTE

If the EOF is not operational at this time, contact Recovery Manager for information concerning turnover of notification and PAR responsibilities.

21. If the event can be downgraded or terminated, Then discuss with Recovery Manager. ___/___

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NOTE

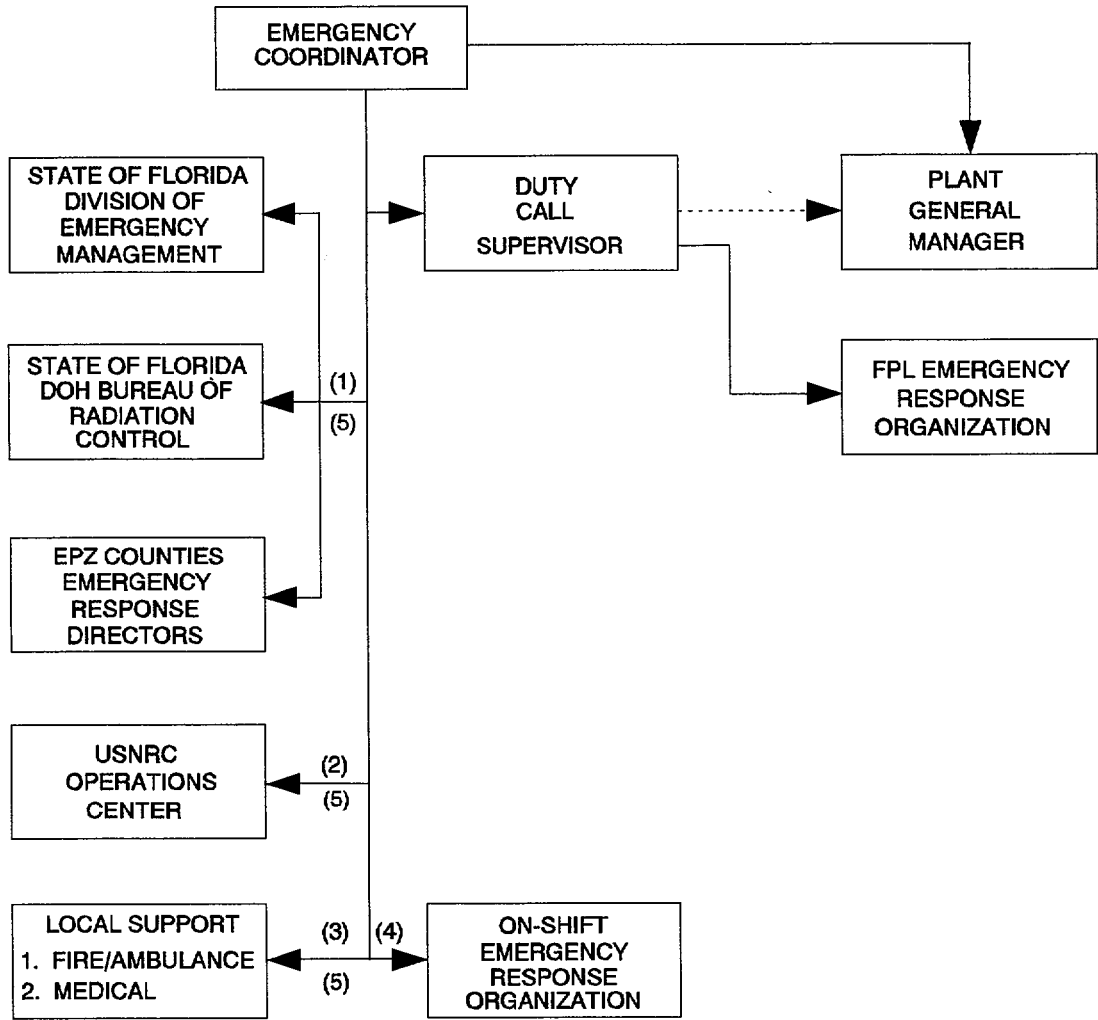
New notification forms shall be completed for all updates.

22. If an off-site notification has not been completed in the last 60 minutes AND the EOF is **NOT** operational, Then provide a routine update. Start a new notification form and make the appropriate notifications. ___/___

27. All Site Area or General Emergency Checklist items completed/satisfied. ___/___

END OF SECTION 5.5

ATTACHMENT 1
INITIAL NOTIFICATION FLOW
(Page 1 of 1)



Legend:
 — Primary Notification Pathway
 - - - - - Alternate Notification Pathway

- (1) Via State Hot Ring Down Telephone (HRD)
- (2) Via Emergency Notification System (ENS)
- (3) Medical & Fire Emergencies Only, As Needed
- (4) Via Plant Public Address System (PA)
- (5) May be performed by the Duty Call Supervisor.

(EPIP-02A.WPG)

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ATTACHMENT 2
CRITERIA FOR EVACUATION

A. Criteria for Local Evacuation

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

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

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

B. Criteria for Owner Controlled Area Evacuation

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

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

END OF ATTACHMENT 2

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ATTACHMENT 3
TURNOVER GUIDELINES
(Page 1 of 2)

Upon arrival at the affected Control Room, the prospective Emergency Coordinator should review the following items/issues with the Control Room Emergency Coordinator (not in a particular order):

NOTE

This information (1-10 below) should be reviewed with the DCS.

1. Type of accident or incident
2. Plant status
3. Equipment out-of-service
4. Operator actions underway
5. Radiological conditions
6. Meteorological conditions
7. Procedure status
8. Emergency Plan activities underway, including any on-site or off-site protective actions
9. Conditions and/or trends of concern
10. Personnel injuries or radiation exposures

Prior to leaving Control Room verify the status of the following:

1. Emergency classification
2. Off-site notifications

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ATTACHMENT 3
TURNOVER GUIDELINES
(Page 2 of 2)

Bring the following items to the Technical Support Center:

1. Copy of RCO log (entries from start of the event)
2. Completed notification forms (State and NRC)
3. Operations Accountability Aid (only if completed)

END OF ATTACHMENT 3

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ATTACHMENT 4
RE-ENTRY GUIDELINES
(Page 1 of 3)

CAUTION

As specified in ADM-17.09, Invoking 10 CFR 50.54(x), the Emergency Coordinator (EC) may (with the concurrence of a licensed senior operator) waive re-entry requirements to place the plant in a safe shutdown condition or mitigate a release, if this immediate action is needed to protect the public health and safety.

1. Prior to evacuation and with the Operational Support Center (OSC) NOT operational.

Re-entry guidelines do not apply.

2. Prior to evacuation and with the OSC operational.

- a. Operators in the field should return to the Control Rooms and obtain an Electronic Personal Dosimeter (EPD) from the Health Physics Emergency Kit prior to returning to field.
- b. Since teams may be dispatched from the OSC prior to evacuation of any plant areas, the OSC Supervisor and Health Physics Supervisor in the OSC (HPOSC) should evaluate the event in progress and determine the most likely trends in radiological conditions. If the event is likely to result in evacuation(s), due to radiological concerns, the teams should be dressed, equipped, and briefed, similarly to Re-entry Teams.

3. Evacuation ordered and with the OSC NOT operational.

Operator actions in the field must be viewed as re-entry activities. Operators shall return to the Control Rooms following the evacuation order. Operator shall obtain an Electronic Personal Dosimeter (EPD) from the Health Physics Emergency Kit, if not done previously. Re-entry into the plant requires:

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ATTACHMENT 4
RE-ENTRY GUIDELINES
(Page 2 of 3)

3. (continued)

- a. The EC (initially the NPS) authorize the entry.
- b. A team of at least two individuals be formed (one person should be knowledgeable in the principles of radiation protection, (e.g., Health Physics Technician, Chemist, or Non-licensed Operator (NLO))).
- c. Maintenance of appropriate radiological and safety measures.
- d. Tracking the whereabouts of the team.

NLOs, from both Units, are to report to the OSC once it goes operational.

4. Evacuation ordered and with the OSC operational

- a. All field activities are re-entries and shall be coordinated and controlled by the OSC.
- b. Re-entry into an evacuated area shall be made only when authorized by the EC and under the direction of the TSC HP Supervisor (TSCHP) and the HPOSC for one or more of the following reasons:
 - 1. To ascertain that all personnel who were in the affected area have been evacuated and to search for unaccounted for personnel.
 - 2. To assist in evacuating injured or incapacitated personnel from the affected area.
 - 3. To perform operations which mitigate the effect of the emergency or hazardous condition.
 - 4. To determine the nature and extent of the emergency and/or radiological conditions.
 - 5. To establish definite personnel exclusion area boundaries.

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ATTACHMENT 4
RE-ENTRY GUIDELINES
(Page 3 of 3)

5. The Re-entry Team members should be selected based on appropriate qualifications relevant to the purpose for the entry.
6. A Re-entry Team shall consist of at least two qualified persons, one of whom shall be knowledgeable in Health Physics procedures.
7. The most qualified (relative to the entry) person should be selected to serve as the Re-entry Team Leader. He/she should be fully briefed concerning the nature of the emergency and the expectations for the entry.
8. All Re-entry Team members shall wear protective clothing, dosimeters, respiratory devices, and other protective devices as specified by the HPOSC.
9. A contingency Re-entry Team should be developed consisting of representatives from each of the maintenance disciplines and Health Physics. This team anticipates the need for a high priority, rapid response request from the EC/TSC.

END OF ATTACHMENT 4

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ATTACHMENT 5

**§1 BASIS FOR EXPOSURE LIMITS FOR
EMERGENCY RESPONSE PERSONNEL**

(Page 1 of 3)

Exposure to emergency response personnel should be maintained As Low As Reasonably Achievable (ALARA). Actions taken during an emergency should take into consideration the amount of exposure required to accomplish the task versus the potential benefit to the public health and safety.

Conditions may warrant re-entry into high radiation areas leading to exposure in excess of the regulatory limit. Except for rescue of personnel (life-saving only), authorization must be given in advance by the Emergency Coordinator (EC) in consultation with the TSC Health Physics Supervisor (or alternate). If time permits, the EC should obtain concurrence from the Recovery Manager if the EOF is operational. In any case, where regulatory limits have been exceeded the EC shall notify the RM of the event.

For those remote circumstances involving an event in progress and obtaining EC approval will result in leaving the accident scene or decrease the victim(s) chance of survival, lifesaving actions may be performed without obtaining EC approval. The EC shall be notified immediately following the rescue operation.

Re-entry personnel that have been selected/chosen to exceed regulatory exposure limits should be volunteers⁽⁴⁾, broadly familiar with the risks involved (radiosensitivity of fetuses, effects of acute exposures, etc.), whose normal duties have trained them for such missions.

EPA 400 Manual of Protective Action Guides and Protective Actions for Nuclear Incidents, EPA 400-R-92-001 states that "To assure adequate protection of minors and the unborn during emergencies, the performance of emergency services should be limited to non-pregnant adults". FPL endorses this guidance; however, FPL recognizes that it is the right of the worker to make the decision to perform as an on-site emergency worker, understanding the potential risks involved.

Since, by their very nature, emergency exposures requiring immediate action are not planned, they are not controlled as a Planned Special Exposure. Dose received from exposure under emergency conditions will be added to the dose received during the current year, prior to the emergency, to determine compliance with the occupational dose limits in 10 CFR 20.

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ATTACHMENT 5

**§₁ BASIS FOR EXPOSURE LIMITS FOR
EMERGENCY RESPONSE PERSONNEL**

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Doses above regulatory limits will require reporting pursuant to 10 CFR 20.2202 and 20.2203. Any dose in excess of the annual limits specified in Section 20.1201(a) will be accounted for in accordance with 10 CFR 20.1206(e). If an individual exceeds any of these limits, then the individual will not be available for additional dose under 20.1201(a).

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 <u>non-life</u> threatening situation, minimize exposures or minimize effluent releases.	10 REM	100 REM
Performance of actions that decrease the severity of the event or terminate the processes causing the event in an attempt to control effluent releases to avoid extensive exposure of large populations. Also, rescue of persons from a <u>life-threatening</u> situation.	25 REM	250 REM
Rescue of person from a <u>life-threatening</u> situation. (Volunteers ⁽⁴⁾ should be above the age of 45.)	(5)	(5)

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ATTACHMENT 5

**§, BASIS FOR EXPOSURE LIMITS FOR
EMERGENCY RESPONSE PERSONNEL**

(Page 3 of 3)

- (1) Exposure limits to the lens of the eye are 3 times the Total Dose (TEDE) values listed.
- (2) Total Dose (TEDE) is the total whole body exposure from both external and internal (weighted) sources - Total Effective Dose Equivalent.
- (3) Thyroid Dose (CDE) commitment from internal sources - Committed Dose Equivalent. The same dose limits also apply to other organs (CDE), skin (Shallow Dose Equivalent) and extremities (Extremity Dose Equivalent).
- (4) Volunteers with full awareness of risks involved including numerical levels of dose at which acute effects of radiation will be incurred and numerical estimates of the risk of delayed effects.
- (5) No upper limit for Total Dose (TEDE) and/or Thyroid Dose (CDE) exposure has been established because it is not possible to prejudge the risks that one person should be allowed to take to save the life of another. Also, no specific limit is given for thyroid exposure since in the extreme case, complete thyroid loss might be an acceptable sacrifice for a life saved. This should not be necessary if respirators and/or thyroid protection for rescue personnel are available as the result of adequate planning.

END OF ATTACHMENT 5



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

Procedure No.
EPIP-04

Current Rev. No.
6

Effective Date:
06/01/00

Title:

**ACTIVATION AND OPERATION OF THE
TECHNICAL SUPPORT CENTER**

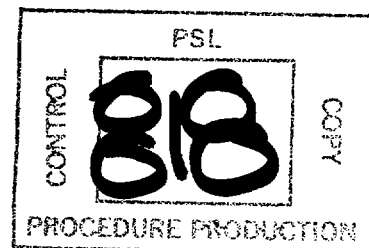
Responsible Department: **EMERGENCY PLANNING**

Revision Summary

Revision 6 - Changed responsibility for filling in the State Notification Form from the TSC HRD Communication to the TSC EC Assist/Logkeeper. Made editorial and administrative changes. Revised TSC briefing guidance IAW CR 00-0429. Added new PST Tracking form. (Donna Calabrese, 05/31/00)

Revision 5 - Changed Chemistry minimum staff position from TSC Chem Supv to TSC Dose Assessor, addressed PMAI by providing alternate notification methods, added instruction to produce list of EIPs with current rev. numbers, revised re-entry worksheet, added instruction to create conf. bridge for OPS, and made editorial and administrative changes. (J. R. Walker, 11/18/99)

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



Revision	FRG Review Date	Approved By	Approval Date	S__OPS
<u>0</u>	<u>12/15/97</u>	<u>J. Scarola</u> Plant General Manager	<u>12/15/97</u>	DATE _____ DOCT <u>PROCEDURE</u> DOCN <u>EPIP-04</u> SYS _____ COMP <u>COMPLETED</u> ITM <u>6</u>
<u>6</u>	<u>05/30/00</u>	<u>R. G. West</u> Plant General Manager	<u>05/31/00</u>	
		_____ Designated Approver		

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1.0 PURPOSE

1.1 Discussion

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

1.2 Location and Description

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

1. South Service Building
2. Nuclear Training Center

1.3 TSC Functions

1. Mandatory Functions

NOTE

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

- A. Relief to the Control Room for off-site communications to the State and local agencies and the NRC in accordance with EPIP-08, Off-site Notifications and Protective Action Recommendations.
- B. Performance of off-site dose calculations in accordance with EPIP-09, Off-site Dose Calculations.

/R6

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1.0 PURPOSE (continued)

1.3 TSC Functions (continued)

2. Additional Functions

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

1.4 Minimum Staffing

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

§₂ 1.5 Activation

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

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1.0 PURPOSE (continued)

1.6 Operations

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

2.0 REFERENCES/RECORDS REQUIRED/COMMITMENT DOCUMENTS

NOTE

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

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

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

2.1 REFERENCES

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

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2.0 REFERENCES/RECORDS REQUIRED/COMMITMENT DOCUMENTS
(continued)

2.1 REFERENCES (continued)

- 8.** ADM-17.11, 10 CFR 50.59 Screening
- 9.** St. Lucie Plant Emergency Response Directory (ERD)
- 10.** QI-17-PSL-1, Quality Assurance Records
- 11.** ERDADS Reactor Operator's Manual (8770-12058)
- 12.** St. Lucie Plant Severe Accident Management Guidelines (SAMGs) /R6
- §₄ 13.** Fitness for Duty Rule, 10 CFR 26
- 14.** NUREG 1394, Emergency Response Data System (ERDS)

2.2 RECORDS REQUIRED

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

2.3 COMMITMENT DOCUMENTS

- ¶₁ 1.** PMAI PM97-04-142, Training Drill Critique 1/24/97, (ERDADS screen mimics and full staffing guidance)
- ¶₂ 2.** Condition Report 97-1389, (Emergency Supplies)
- ¶₃ 3.** PMAI PM99-09-017, Training Drill Critique 7/22/99, (Alternate Notification Methods)
- ¶₄ 4.** PMAI PM96-09-185, Condition Report CR 96-1750 (Off-site Notification Using Commercial Phone)
- ¶₅ 5.** Condition Report 00-0429 (TSC Briefing) /R6

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3.0 RESPONSIBILITIES

3.1 Emergency Coordinator (EC)

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

3.2 TSC EC Assist/Logkeeper

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

3.3 TSC Supervisor

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

3.4 TSC Coordinator with the OSC

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

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3.0 RESPONSIBILITIES (continued)

3.5 TSC OPS Coordinator

NOTE

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

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

3.6 TSC Reactor Engineer

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

3.7 TSC Chemistry Supervisor

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

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3.0 RESPONSIBILITIES (continued)

3.8 TSC HP Supervisor (TSCHP)

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

3.9 TSC Security Supervisor

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

3.10 TSC Problem Solving Team (PST)

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

4.0 DEFINITIONS

4.1 Facility Status

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

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4.0 DEFINITIONS (continued)

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

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5.0 INSTRUCTIONS

NOTE

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

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

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

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

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

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

/R6

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5.0 INSTRUCTIONS (continued)

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

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

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

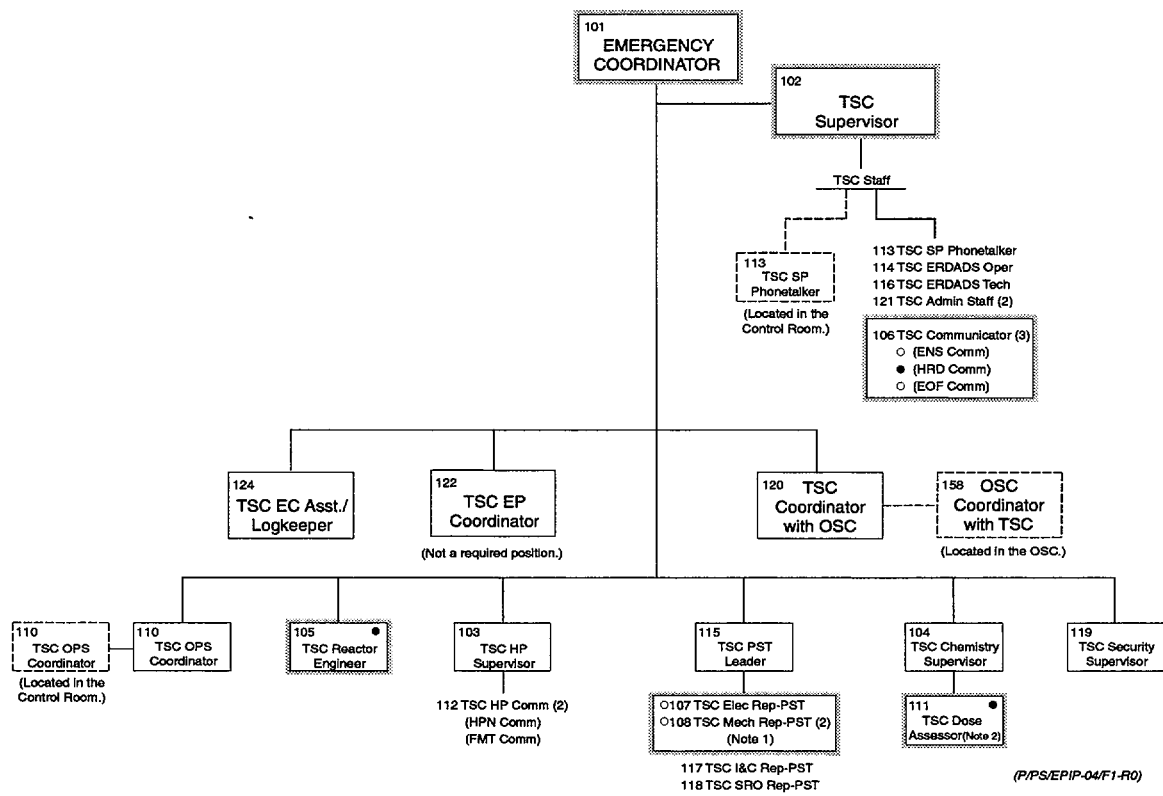
5.5 During facility briefings, stop what you are doing, pay attention and contribute, as requested.

5.6 Upon termination of the event:

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

END OF SECTION 5.0

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



Autodialer position numbers are listed with position titles.

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

Note 1- Only one person is required as minimum staff.
 Note 2- The Dose Assessor function will be performed by the on-shift Chemist.

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

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

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ATTACHMENT 2
TSC EC ASSIST/LOGKEEPER 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. Remove the EC Logbook from the EC position notebook and initiate the EC Log (use Attachment 2A, Typical Information to be Included in the EC Logbook). _____
2. Review the requirements of EPIP-02, Duties and Responsibilities of the Emergency Coordinator. _____
3. Steps to occur continually while the facility is in operation:
- a. Maintain the EC Logbook.
 - b. Assist the EC in the completion of the requirements of EPIP-02.
 - c. Prior to the Emergency Operations Facility going operational, assist the EC in completion of the State Notification Form, including determination of Protective Action Recommendations (PARs), as necessary in accordance with EPIP-08, Off-site Notifications and Protective Action Recommendations. /R6
 - d. Verify that the EC approves all off-site notification forms.
 - e. Remind the EC of time limits for notification of off-site agencies.
 - f. Ensure checklists/paperwork are properly completed.
 - g. Provide EC a summary of recent log entries for facility briefings.
 - h. Support EC as needed or requested.
 - i. Assist the Emergency Notification System (ENS) Communicator in responding to requests for information from the NRC. /R6

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

C. FACILITY CLOSEOUT AND RESTORATION INITIAL

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

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

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

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

- A. The following information should be included in the EC Logbook:
1. Key events (e.g., classification changes, injuries, etc.).
 2. Status changes in equipment, radiological conditions, personnel, etc.
 3. Decisions made or actions taken.
 4. Other items of significance.
- B. Log entry requirements:
1. Time of entry.
 2. Use ink.
 3. Write/print legibly.
 4. Use concise and accurate wording.
 5. Strike through and initial changes.
 6. Do not remove pages from the log.

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ATTACHMENT 3
TSC SUPERVISOR CHECKLIST
(Page 1 of 4)

NOTE

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

A. FACILITY ACTIVATION INITIAL

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

NOTE

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

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

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ATTACHMENT 3
TSC SUPERVISOR CHECKLIST
(Page 2 of 4)

A. (continued) INITIAL

¶₁

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

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

B. FACILITY OPERATION

- 1. Initiate the TSC Logbook. _____

¶₂

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

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

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

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ATTACHMENT 3
TSC SUPERVISOR CHECKLIST
(Page 4 of 4)

C. FACILITY CLOSEOUT AND RESTORATION INITIAL

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

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

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

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

POSITION {Minimum staff in bold ³ }	NAME	BADGE NO.	POSITION {Minimum staff in bold ³ }	NAME	BADGE NO.
Emergency Coordinator			TSC HP Comm		
TSC Supervisor			TSC HP Comm		
			TSC SP Phonetalker (in TSC)		
TSC Chemistry Supervisor			TSC SP Phonetalker (in Control Room)		
TSC Reactor Engineer			TSC ERDADS Operator		
TSC Communicator ⁴			TSC PST Leader		
TSC Communicator ⁴			TSC ERDADS Tech		
TSC Communicator ⁴			TSC I&C Rep - PST		
TSC Elec Rep - PST			TSC SRO Rep - PST		
TSC Mech Rep - PST			TSC Coordinator with OSC		
TSC Mech Rep - PST			TSC Admin Staff		
TSC Mech Rep - PST			TSC Admin Staff		
TSC HP Supervisor			TSC EC Assist/ Logkeeper		
TSC Security Supervisor			TSC EP Coordinator (not required)		
TSC OPS Coord (in TSC)					
TSC OPS Coord (in Control Room)					
TSC Dose Assessor ⁵					

¹ Long term staffing, refer to the St. Lucie Plant Emergency Response Directory (ERD) for position alternates.

² Long term staffing includes the Control Rooms, attach list to this sheet.

³ Refer to Attachment 3B, TSC Minimum Staffing Requirements, to this attachment for temporary alternates for minimum staff positions.

⁴ TSC Communicator position fills the following positions:

- a. TSC ENS Communicator
- b. TSC HRD Communicator
- c. TSC EOF Communicator

⁵ Position may be relieved when the EOF goes operational and takes the lead for dose assessment.

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

Major Functional Area ¹	Position Title and ID No. ²	# in Position	Qualifications/ Temporary Alternate
Senior Mgmt. Rep.	Emergency Coordinator, 101	1	Senior Manager with Emergency Coordinator qualifications
Off-site Dose Assessment	TSC Dose Assessor, 111	1	Member of Chemistry Department
Core/Thermal Hydraulics	TSC Reactor Engineer, 105	1	Member of the Reactor Engineering Department or current or prior STA
Notification/Communication	TSC Communicator, 106	3	TSC responder with - STA or equivalent background for ENS Communicator - Technical/operational background for HRD or EOF Communicator
Electrical	TSC Elec Rep - PST, 107	1	Electrical Engineer or Electrical Maintenance Supervisor
Mechanical	TSC Mech Rep - PST, 108	1	Mechanical Engineer or Mechanical Maintenance Supervisor
Facility Command and Control	TSC Supervisor, 102	1	TSC Coordinator with OSC

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

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

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ATTACHMENT 3C
TSC FACILITY BRIEFINGS
(Page 1 of 2)

NOTE

Briefings should be carried by the Videolink.

A. GENERAL GUIDELINES

1. Coordinated by the TSC Supervisor or his/her designee:
 - a. Establish a frequency (e.g., approximately every 30 minutes). Frequency of briefings may be changed (e.g., decreased during a protracted event or increased during rapidly changing conditions).
 - b. Set criteria (i.e., attendance, noise and activity level, collection and circulation of information, etc.).
2. TSC Supervisor should announce the start of the briefing and then turn the briefing over to the EC.
3. TSC Supervisor should assist the EC during the briefing.
 - a. Ensure that the EC receives any updated information. Coordinate this with the TSC EC Assistant/Logkeeper.
 - b. Ensure that the EC repeats any questions that are asked from the floor to ensure that the OSC and EOF members have heard them.

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¶₅

ATTACHMENT 3C
TSC FACILITY BRIEFINGS
(Page 2 of 2)

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

NOTE

It is **not** necessary to have all department representatives participate in each briefing. Use discretion in this area to avoid unnecessary repetition of information.

1. Initial status and summary to include:
 - a. Time of the briefing.
 - b. Emergency Classification.
 - c. Plant status (affected unit, unaffected unit).
 - d. Radiological conditions (e.g., release in progress, contaminated areas, etc.).
 - e. Status of protective actions (e.g., site evacuation, actions underway by the public, etc.).
 - f. Status of activities underway in the facility.
 - d. Priority activities/primary focus.

2. Input/update information from other departments:
 - a. Operations (including EOP actions, discussion of SAMGs).
 - b. Health Physics (including field monitoring activities).
 - c. Reactor Engineering (including status of the reactor core).
 - d. Problem Solving Team (including SAMGs).
 - e. TSC Coordinator with the OSC (including re-entry activity status).

3. Major activities underway in other facilities.

4. Concerns or questions.

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

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

A. Emergency Coordinator

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

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

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

B. TSC Supervisor

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

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

B. (continued)

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

C. All TSC Personnel

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

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

Suggested Arrangements and Equipment Availability at Alternate TSC Locations:

SOUTH SERVICE BUILDING NUCLEAR TRAINING CENTER

Communications

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

Dose Assessment

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

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

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ATTACHMENT 4
TSC COMMUNICATOR CHECKLIST
(Page 1 of 4)

NOTE

- This checklist applies to the following Communicator positions in the TSC:

HRD Communicator	ENS Communicator
EOF Communicator	Sound-powered Phonetalker (CR/TSC)
- The responsibilities of the TSC HP Communicators are provided as follows:

 HPN Communicator - in HP-200, Health Physics Emergency Organization
 FMT Comm/Coord - in EPIP-10, Off-site Radiological Monitoring
- When necessary or appropriate, steps of this checklist may be performed out of sequence.

A. FACILITY ACTIVATION INITIAL

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

NOTE

Communicator positions should be filled in the following order:

- Hot Ring Down (HRD) Phone
- Emergency Notification System (ENS)
- EOF
- Sound-powered Phone (CR)
- Sound-powered Phone (TSC)

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

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ATTACHMENT 4
TSC COMMUNICATOR CHECKLIST
(Page 2 of 4)

B. FACILITY OPERATION

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

HRD Communications

- a. Assist the EC with State and County notifications by:
 1. Reviewing the State Notification Form for completeness.
 2. As necessary, ensuring Protective Action Recommendations (PARs) match the PAR Worksheet (see Notification from the Technical Support Center in EPIP-08, Off-site Notifications and Protective Action Recommendations).
 3. Ensure the EC has approved the form.
- b. Transmit the notification form in accordance with EPIP-08.
- c. Request the TSC EC Assist/Logkeeper log notification times.

ENS Communications

- a. If necessary, transmit an initial NRC Notification Form in accordance with EPIP-08.
- b. At an Alert or higher emergency classification, request the NRC to establish the ENS conference bridge.
- c. Maintain an open line of communication and a transmission log.
- d. Request the TSC EC Assist/Logkeeper:
 1. Provide assistance in responding to requests for information from the NRC.
 2. Log notification times, as appropriate.
- e. Log all questions asked by NRC.

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ATTACHMENT 4
TSC COMMUNICATOR CHECKLIST
(Page 3 of 4)

B. (continued)

1. (continued)

ENS Communications (continued)

- f. Obtain answers to questions from appropriate TSC staff member (e.g., HP, Chemistry, Reactor Engineering, etc.), as necessary. /R6
- g. Obtain EC approval prior to providing additional information to the NRC.

EOF Communications

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

Sound-powered Phonetalker

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

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ATTACHMENT 4
TSC COMMUNICATOR CHECKLIST
(Page 4 of 4)

C. FACILITY CLOSEOUT AND RESTORATION INITIAL

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

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

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**ATTACHMENT 4A
COMMUNICATIONS GUIDELINES**

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NOTE

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

A. GENERAL GUIDELINES

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

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

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

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ATTACHMENT 4A
COMMUNICATIONS GUIDELINES

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A. (continued)

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

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ATTACHMENT 4A
COMMUNICATIONS GUIDELINES

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B. COMMUNICATIONS SYSTEMS

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

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

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

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COMMUNICATIONS GUIDELINES

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B. (continued)

4. Sound-powered Phone

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

5. Commercial Telephone

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

6. Emergency Satellite Communications System (ESATCOM)

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

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COMMUNICATIONS GUIDELINES
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B. (continued)

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

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

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COMMUNICATIONS GUIDELINES
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13C. Alternate State Warning Point Notification Methods (recommended format): /R6

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

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

Hang up the phone and standby for the callback. When the State Warning Point gives the go-ahead, provide the information from the State of Florida Notification Message Form.

14 Request callback to verify that State Warning Point has notified St. Lucie and Martin Counties and the Bureau of Radiation Control.

2. Alternate 2 - ESATCOM

Hold down the button on the handset and wait 3-5 seconds to hear a beep before you start talking. This must be done each time you talk.

Announce "State Warning Point, this is St. Lucie Unit _____," then release the button in order to listen.

When the State Warning Point acknowledges, announce "State Warning Point, this is St. Lucie Unit ____ (classification), repeat (classification)."

When the State Warning Point gives go-ahead, provide the information from the State of Florida Notification Message Form.

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

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COMMUNICATIONS GUIDELINES
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C. (continued)

3. Alternate 3 - Local Government Radio (LGR) communication to St. Lucie and Martin County Emergency Operations Centers (EOCs) with relay to the State Warning Point.

On channel 2, contact the county EOCs by depressing the transmit button and announcing "St. Lucie County EOC, this is St. Lucie Nuclear Unit _____. Over." When St. Lucie County replies, direct them to standby while you contact Martin County.

When both counties are online, announce "Martin and St. Lucie County EOCs, this is St. Lucie Nuclear Unit ____ declaring a (classification), repeat (classification). I am standing by to transmit State of Florida Notification Message Form information when you are ready to copy. Over."

When the counties give the go-ahead, provide the information from the State of Florida Notification Message Form.

End the conversation by announcing "This is St. Lucie Unit _____, KNGR 874, over and out."

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ATTACHMENT 4B

SAFETY FUNCTIONS EQUIPMENT STATUS - UNIT 1

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ERDADS SF1 Screen Mimic

<u>PLANT PARAMETERS</u>	<u>SAFEGUARDS</u>	<u>CONTAINMENT</u>	<u>BALANCE OF PLANT</u>
REACTOR PWR (WR) _____%	<u>PUMP STATUS (ON/OFF)</u>	<u>PRESSURE _____ PSIG</u>	<u>ELECTRICAL PLANT</u>
REACTOR VSL LEVEL _____%	HPSI A ON/OFF	LEVEL (NR) _____ FEET	4.16 KV A3 _____ VOLTS
RCS PRESSURE (NR) _____ PSIA (1500-2500)	HPSI B ON/OFF	((-7) TO 0)	4.16 KV B3 _____ VOLTS
RCS PRESSURE (LR) _____ PSIA (0-1600)	LPSI A ON/OFF	LEVEL (WR) _____ FEET	<u>DIESEL GENERATORS</u>
PRESSURIZER LEVEL _____%	LPSI B ON/OFF	((-1) TO 26)	D/G A _____ VOLTS
CET TEMPERATURE _____ DEG F	CHRG A ON/OFF	<u>TEMPERATURE</u>	D/G A _____ AMPS
HOT LEG A TEMP _____ DEG F	CHRG B ON/OFF	ATMOSPHERE _____ DEG F	D/G B _____ VOLTS
HOT LEG B TEMP _____ DEG F	CHRG C ON/OFF	SUMP _____ DEG F	D/G B _____ AMPS
COLD LEG A1 TEMP _____ DEG F	CCW A ON/OFF	<u>RADIATION LEVEL</u>	<u>TANK STATUS</u>
COLD LEG A2 TEMP _____ DEG F	CCW B ON/OFF	CHHRM _____ R/HR	RWT _____ FEET
COLD LEG B1 TEMP _____ DEG F	CCW C ON/OFF	POST/LOCA _____ MR/HR	CST _____ FEET
COLD LEG B2 TEMP _____ DEG F	AFW A ON/OFF	PARTICULATE _____ CPM	BAMT A _____%
LMTNG SBCOOL MRGN _____ DEG F	AFW B ON/OFF	GASEOUS _____ CPM	BAMT B _____%
S/G A PRESSURE _____ PSIG	AFW C ON/OFF	<u>HYDROGEN CONCENTRATION</u>	<u>HVAC STATUS (ON/OFF)</u>
S/G A LEVEL (WR) _____%	<u>AUX FEED FLOW (GPM)</u>	A ANALYSER _____%	HVE 4A ON/OFF
S/G B PRESSURE _____ PSIG	A _____ B _____ C _____	B ANALYSER _____%	HVE 4B ON/OFF
S/G B LEVEL (WR) _____%	<u>HPSI FLOW (GPM)</u>	<u>CONTAINMENT COOLERS (ON/OFF)</u>	HVE 8A ON/OFF
CNTMT PRESS (WR) _____ PSIG	A1 _____ A2 _____	CNTMT COOLER A ON/OFF	HVE 8B ON/OFF
CONTAINMENT TEMP _____ DEG F	B1 _____ B2 _____	CNTMT COOLER B ON/OFF	HVE 9A ON/OFF
	<u>LPSI FLOW (GPM)</u>	CNTMT COOLER C ON/OFF	HVE 9B ON/OFF
	A1 _____ A2 _____	CNTMT COOLER D ON/OFF	HVE 10A ON/OFF
	B1 _____ B2 _____		HVE 10B ON/OFF
	<u>SIT'S LEVEL (%)</u>		
	A1 _____ A2 _____		
	B1 _____ B2 _____		
	<u>SIT'S PRESS (PSIA)</u>		
	A1 _____ A2 _____		
	B1 _____ B2 _____		
	<u>SAFEGUARDS SIGNALS</u>		
	SIAS A YES / NO		
	SIAS B YES / NO		
	MSIS A YES / NO		
	MSIS B YES / NO		

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ATTACHMENT 4B
RADIOACTIVE GASEOUS SOURCE TERMS - UNIT 1
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¶₁

ERDADS RG1 Screen Mimic

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

<u>CHANNEL</u>	<u>MAIN STEAM</u>	<u>VALUE</u>	<u>UNITS</u>	<u>CHANNEL</u>	<u>CONTAINMENT</u>	<u>VALUE</u>	<u>UNITS</u>
05-01	A MAIN STM	_____	MR/HR	58	A HI RANGE	_____	R/HR
05-02	B MAIN STM	_____	MR/HR	59	B HI RANGE	_____	R/HR
					PRESSURE	_____	PSIG

<u>CHANNEL</u>	<u>ECCS 1A</u>	<u>VALUE</u>	<u>UNITS</u>	<u>CHANNEL</u>	<u>PLANT VENT</u>	<u>VALUE</u>	<u>UNITS</u>
02-05	LOW RANGE	_____	uC/cc	01-05	LOW RANGE	_____	uC/cc
02-07	MID RANGE	_____	uC/cc	01-07	MID RANGE	_____	uC/cc
02-09	HI RANGE	_____	uC/cc	01-09	HI RANGE	_____	uC/cc
02-10	FLOW	_____	SCFM	01-10	FLOW	_____	SCFM

<u>CHANNEL</u>	<u>ECCS 1B</u>	<u>VALUE</u>	<u>UNITS</u>	<u>CHANNEL</u>	<u>FUEL BLDG</u>	<u>VALUE</u>	<u>UNITS</u>
03-05	LOW RANGE	_____	uC/cc	04-05	LOW RANGE	_____	uC/cc
03-07	MID RANGE	_____	uC/cc	04-07	MID RANGE	_____	uC/cc
03-09	HI RANGE	_____	uC/cc	04-09	HI RANGE	_____	uC/cc
03-10	FLOW	_____	SCFM	04-10	FLOW	_____	SCFM

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ATTACHMENT 4B

SAFETY FUNCTIONS EQUIPMENT STATUS - UNIT 2

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ERDADS SF2 Screen Mimic

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

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

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

<u>CHANNEL</u>	<u>MAIN STEAM</u>	<u>VALUE</u>	<u>UNITS</u>	<u>CHANNEL</u>	<u>CONTAINMENT</u>	<u>VALUE</u>	<u>UNITS</u>
631	A MAIN STM	_____	MR/HR	40	A HI RANGE	_____	R/HR
632	B MAIN STM	_____	MR/HR	41	B HI RANGE	_____	R/HR
633	BACKGROUND	_____	MR/HR		PRESSURE	_____	PSIG
<u>CHANNEL</u>	<u>ECCS 2A</u>	<u>VALUE</u>	<u>UNITS</u>	<u>CHANNEL</u>	<u>PLANT VENT</u>	<u>VALUE</u>	<u>UNITS</u>
601	LOW RANGE	_____	uC/cc	621	LOW RANGE	_____	uC/cc
602	MID RANGE	_____	uC/cc	622	MID RANGE	_____	uC/cc
603	HI RANGE	_____	uC/cc	623	HI RANGE	_____	uC/cc
604	EFFLUENT	_____	uC/SEC	624	EFFLUENT	_____	uC/SEC
<u>CHANNEL</u>	<u>ECCS 2B</u>	<u>VALUE</u>	<u>UNITS</u>				
611	LOW RANGE	_____	uC/cc				
612	MID RANGE	_____	uC/cc				
613	HI RANGE	_____	uC/cc				
614	EFFLUENT	_____	uC/SEC				

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ATTACHMENT 5
TSC ERDADS OPERATOR CHECKLIST
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NOTE
When necessary or appropriate, steps of this checklist may be performed out of sequence.

A. FACILITY ACTIVATION INITIAL

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

B. FACILITY OPERATION

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

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

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

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

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

2. (continued)

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

C. FACILITY CLOSEOUT AND RESTORATION

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

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

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**ATTACHMENT 5A
ERDADS DATA ACQUISITION**

(Page 1 of 3)

I. DATA ACQUISITION

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

1. Meteorological Data -

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

2. Plant Parameter Data -

CAUTION

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

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

3. Radiological Data -

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

4. Chemistry Data -

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

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ATTACHMENT 5A
ERDADS DATA ACQUISITION
(Page 2 of 3)

I. DATA ACQUISITION (continued)

A. (continued)

5. To access data -

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

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

6. To go directly to a screen -

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

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

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

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

II. ERDADS - COLOR/SYMBOL CONVENTIONS

<u>Color/Symbol</u>	<u>Explanation</u> 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.

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

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ATTACHMENT 5B
ERDADS DATA POINTS
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The following data point descriptions for St. Lucie Plant correspond with the data normally tracked on the plant parameters status board. Consult ERDADS Manual, as necessary, for verification of point IDs, point names or description information.

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

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ST. LUCIE PLANT

**ATTACHMENT 5B
ERDADS DATA POINTS**
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POINT DESCRIPTION	PT ID	POINT NAME	TYPE CALCULATION	NOTES
RCS Pressurizer Level (%)	QA0001-1/2	PRZR LVL	Average	<p>This parameter is pressurizer level. It is derived from Pressurizer Level control signals LT1110X-2 and LT1110Y-2 which are linear. These two signals are processed by an average with expanded quality algorithm. This function obtains the average of all values with a good status. It also sets the quality of the result based on the number of values with good status, versus the total number of inputs. The possible status values are:</p> <ul style="list-style-type: none"> Greater than 50% of all inputs have good status, result is good. Only one good value and the total inputs are 3 or more, the result is poor. When there are no good data values, but there are some with poor or suspect, the result is poor. The result is suspect for all other cases except all bad, in this case the result is bad. <p>The top of the heaters is 73.98 inches above the lower top centerline.</p>
Charging Flow to Regen Hx (GPM)	FT2212-1/2	RCS CHG/MU	N/A	<p>This parameter is reactor coolant system makeup flow. It is converted to engineering units using a linear equation.</p>
Subcooling Margin (deg. F)	QA0005-1/2	Submargin	Minimal	<p>This parameter is derived from eight subcooled values, TMARHEAD-A-1/2, TMARRCS-B-1/2, TMARUR-A-1/2, TMARHEAD-B-1/2, TMARCET-A-1/2, TMARUR-B-1/2, TMARRCS-A-1/2 and TMARCET-B-1/2, which are provided by the Qualified Safety Parameter Display System (QSPDS). They are processed by a signal auctioneering minimum algorithm. This function finds the highest usable data value in a specified group. Each data value of the group and its quality is examined and the following quantities are obtained:</p> <ol style="list-style-type: none"> Lowest usable data value, Point number of the lowest usable data value, Number of usable data values, and Lowest quality of the usable data. <ul style="list-style-type: none"> For two or more usable data values, the result is the highest usable value and the quality is the lowest quality of the usable data. For only one usable data value, the result is set to that value and the quality is poor. For no usable data, the value of the result is set to the highest of all the (bad) data and the quality is bad.

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ATTACHMENT 5B
ERDADS DATA POINTS
(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	<p>This parameter is derived from 45 Unit 1 detectors, or 56 Unit 2 detectors located just above the upper fuel alignment plate. The Qualified Safety Parameter Display System (QSPDS) provides the values. They are processed by an average with expanded quality algorithm. This function obtains the average of all values with a good status. It also sets the quality of the result based on the number of values with good status, versus the total number of inputs. The possible status values are:</p> <ul style="list-style-type: none"> • Greater than 50% of all inputs have good status, result is good. • Only one good value and the total inputs are 3 or more, the result is poor. • When there are no good data values, but there are some with poor or suspect, the result is poor. • The result is suspect for all other cases except all bad, in this case the result is bad.
Reactor Vessel Level (%)	Unit 1: QA0004-1 Unit 2: RLEV H-2 RLEV P-2		Minimum	<p>The reactor vessel level for Unit 1 QA0004-1 is derived from the reactor vessel levels RLEV-A-1 and RLEV-B-1 which are provided by the Qualified Safety Parameter Display System. The ERDADS select the lowest of the two values. For only one good data value, the result is set to that value and the quality is poor.</p> <p>The reactor vessel level for Unit 2 is displayed as reactor plenum level RLEV PB-2 and reactor head level RLEV HB-2 which is provided by the "B" side Qualified Safety Parameter Display System (QSPDS). These two parameters are displayed with no calculations being performed by the ERDADS computer system.</p> <p>The QSPDS obtains these values from the heated and unheated junction thermocouples located inside the reactor. They are positioned between the head and upper fuel alignment plate in the reactor internals.</p>

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ATTACHMENT 5B
ERDADS DATA POINTS
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POINT DESCRIPTION	PT ID	POINT NAME	TYPE CALCULATION	NOTES																																												
Reactor Vessel Level % (continued)				Unit 1 Level Information: Head and Plenum together <table border="1"> <thead> <tr> <th>Sensor</th> <th>Location* (* in. to fuel) alignment plate)</th> <th>Level Segment (%)</th> <th>Value if Uncovered (%)</th> </tr> </thead> <tbody> <tr> <td>None</td> <td></td> <td></td> <td>100</td> </tr> <tr> <td>1</td> <td>186 1/4</td> <td>20</td> <td>80</td> </tr> <tr> <td>2</td> <td>144 3/8</td> <td>19</td> <td>61</td> </tr> <tr> <td>3</td> <td>108</td> <td>18</td> <td>43</td> </tr> <tr> <td>4</td> <td>71 5/8</td> <td>14</td> <td>29</td> </tr> <tr> <td>5</td> <td>50 5/8</td> <td>10</td> <td>19</td> </tr> <tr> <td>6</td> <td>29 5/8</td> <td>7</td> <td>12</td> </tr> <tr> <td>7</td> <td>19 5/8</td> <td>5</td> <td>7</td> </tr> <tr> <td>8</td> <td>10 5/8</td> <td>7</td> <td>0</td> </tr> </tbody> </table>	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	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																																													
				Unit 2 Level Information: Head and Plenum together <table border="1"> <thead> <tr> <th>Sensor</th> <th>Location* (* in. to fuel) alignment plate)</th> <th>Level Segment (%)</th> <th>Value if Uncovered (%)</th> </tr> </thead> <tbody> <tr> <td>None</td> <td></td> <td></td> <td>100</td> </tr> <tr> <td>1</td> <td>170 1/2</td> <td>52</td> <td>48</td> </tr> <tr> <td>2</td> <td>140 3/4</td> <td>28</td> <td>20</td> </tr> <tr> <td>3</td> <td>111 1/8</td> <td>20</td> <td>0</td> </tr> <tr> <td>None</td> <td></td> <td></td> <td>100</td> </tr> <tr> <td>4</td> <td>98 5/8</td> <td>18</td> <td>82</td> </tr> <tr> <td>5</td> <td>74 5/8</td> <td>21</td> <td>61</td> </tr> <tr> <td>6</td> <td>53 5/8</td> <td>20</td> <td>41</td> </tr> <tr> <td>7</td> <td>32 5/8</td> <td>19</td> <td>22</td> </tr> <tr> <td>8</td> <td>12 5/8</td> <td>22</td> <td>0</td> </tr> </tbody> </table>	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
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																																													

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ATTACHMENT 5B
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	Cntmnt Press	Average	<p>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:</p> <ul style="list-style-type: none"> • Greater than 50% of all inputs have good status, result is good. • Only one good value and the total inputs are 3 or more, the result is poor. • When there are no good data values, but there are some with poor or suspect, the result is poor. • The result is suspect for all other cases except all bad, in this case the result is bad.

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

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

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ATTACHMENT 5B
ERDADS DATA POINTS
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POINT DESCRIPTION	PT ID	POINT NAME	TYPE CALCULATION	NOTES
SG Pressure A (psig)	QA0021-1/2	SG Pres./A	Redundant Sensor Algorithm	This parameter is the "A" steam generator pressure. It is derived from three Steam Generator Pressure Signals, PT8013A-1/2, PT8013B-1/2 and PT8013C-1/2, which are linear. These signals are processed by a redundant sensor algorithm. This function obtains the average of the current values that have a good status and are close to the statistical majority.
SG Pressure B (psig)	QA0022-1/2	SG Pres./B	Redundant Sensor Algorithm	This parameter is the "B" steam generator pressure. It is derived from three Steam Generator Pressure Signals, PT8023A-1/2, PT8023B-1/2 and PT8023D-1/2, which are linear. These signals are processed by a redundant sensor algorithm. This function obtains the average of the current values that have a good status and are close to the statistical majority.
Refueling Water Tank Avg. Level (Ft.)	RWTAL-1/2	BWST Level	Average	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: <ul style="list-style-type: none"> • Greater than 50% of all inputs have good status, result is good. • Only one good value and the total inputs are 3 or more, the result is poor. • When there are no good data values, but there are some with poor or suspect, the result is poor. • The result is suspect for all other cases except all bad, in this case the result is bad. Tank bottom refers to zero gallons.

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

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

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

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

- | <u>A. FACILITY ACTIVATION</u> | <u>INITIAL</u> |
|---|----------------|
| 1. Refer to Section 5 of this procedure (included in the position notebook) and review the general instructions. | _____ |
| 2. Verify procedures by posting revision numbers on the status board. Post all procedures (EPIP, HP, Chem.). Consult Control Copy 5 in the TSC document cabinets or follow the steps below to print out an EPIP list: | _____ /R6 |
| a. In Lotus Notes, click on the PSL Procedures icon. | |
| b. On the Search line toolbar, click the far right button (with 2 circles and a down arrow). | |
| c. Select Group Search from the drop down menu. | |
| d. In the Search line type "EP" (where the "XX" is). | |
| e. Click Search or hit Enter. | |
| f. EPIP list is now displayed (not in any particular order). | |
| g. To print the list - Click File
- Select Print from the drop down menu
- Select View Options in the dialogue box
- Click OK | |
| 3. Telecopy the EC Log, completed notification forms and checklists, and any other pertinent information to the EOF. | _____ |

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

B. FACILITY OPERATION

INITIAL

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

1. Synchronize the facility clock(s) with ERDADS. In case of ERDADS failure, synchronize with the affected Control Room.
2. Steps to occur continually while the facility is in operation:
 - a. Obtain the following ERDADS data sheets (printouts) from the ERDADS Operator:
 1. Safety Functions Equipment Status (SF 1/2).
 2. Radioactive Gaseous Source Terms (RG 1/2).
 - b. Update status boards with new ERDADS data.
 - c. Verify all data has been accurately transferred to the status board.
 - d. Update the sequence of events board following each facility briefing and as needed. Provide relevant information concerning items such as:
 1. Change in classification.
 2. Significant change in plant condition.
 3. Status of plant system(s) of concern.
 4. Injured personnel status.
 5. Other items of relevant interest.

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ATTACHMENT 6
TSC ADMINISTRATIVE STAFF CHECKLIST
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B. FACILITY OPERATION (continued) INITIAL

2. (continued)

- e. Update dose assessment and field monitoring data as information is provided by Chemistry and HP, respectively.
- f. Make corrections, when identified, by circling the corrected data.
- g. When all status board columns/blanks are filled, erase the first two columns/blanks, enter new data with a different colored marker leaving a space between the new and the old data.
- h. Provide any incoming telecopy materials to the TSC Supervisor or as designated on the cover page.

C. FACILITY CLOSEOUT AND RESTORATION

NOTE

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

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

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

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

- | | | |
|-----------|--|-----------------------|
| A. | <u>FACILITY ACTIVATION</u> | <u>INITIAL</u> |
| | 1. Refer to Section 5 of this procedure (included in the position notebook) and review the general instructions. | _____ |
| B. | <u>FACILITY OPERATION</u> | |
| | 1. Establish contact with the OSC Coordinator with the TSC (in the OSC). | _____ |
| | 2. Steps to occur continually while the facility is in operation: | |
| | a. Ensure all requests for re-entry activities are documented on Attachment 7A, Re-entry Worksheet. | |
| | b. Ensure all re-entry requests have been approved and prioritized by the EC. | |
| | c. Track all requests for Re-entry Teams using Attachment 7B, Re-entry Log. | |
| | d. Communicate re-entry requests to the OSC Coordinator with the TSC per Attachment 7B, Re-entry Log. | |
| | e. Update the OSC Status Board with Re-entry Team information. | |

REVISION NO.: 6	PROCEDURE TITLE: ACTIVATION AND OPERATION OF THE TECHNICAL SUPPORT CENTER	PAGE: 61 of 93
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ATTACHMENT 7
TSC COORDINATOR WITH OSC CHECKLIST
 (Page 2 of 2)

C. FACILITY CLOSEOUT AND RESTORATION INITIAL

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

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

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**ATTACHMENT 7A
RE-ENTRY WORKSHEET**
(Page 1 of 9)

**DATA SHEET 1
REQUEST DESCRIPTION**
(Page 1 of 2)

NOTE

This worksheet is used for the following:

1. Requesting in-plant/field response activities prior to the restrictions imposed by local and/or site evacuation.
2. Requesting Re-entry Team dispatch from the Operational Support Center (OSC).
3. Requesting engineering support from the Emergency Operations Facility (EOF).
4. Requesting SAMG directives to the Control Room(s) (CR(s)).

Attach appropriate data sheets together for each request.

Step 1. DESCRIBE the nature of the problem/concern/request:

(Attach additional pages if required)

Originated by: _____ Date/Time: ____/____/____

Forward to PST Leader

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ATTACHMENT 7A
RE-ENTRY WORKSHEET
(Page 2 of 9)

DATA SHEET 1
REQUEST DESCRIPTION
(Page 2 of 2)

Step 2. Is the request complex (i.e., not routine or covered by existing plant procedure(s))?

- Yes, Go to Data Sheet 2
- No, Go to Data Sheet 3

Signature: _____ Date/Time: ____/____/____
PST Leader

END OF DATA SHEET 1

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ATTACHMENT 7A
RE-ENTRY WORKSHEET
(Page 3 of 9)

DATA SHEET 2
PST ACTIONS
(Page 1 of 2)

Step 1. PST Leader ASSIGN a PST member to fill out the following assessment/review (initial and date entry):

(Attach additional pages, if required)

NOTE

50.59 screening is required for any alterations of systems, structures or components. Actions that are outside of design basis shall require implementation of ADM-17.09, Invoking 50.54(x).

- Step 2.** **A.** PST PROVIDE recommendation/response below (initial and date entry): or
- B.** If EOF assistance is needed, Then complete Data Sheet 4 and attach.

(Attach additional pages, if required)

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ATTACHMENT 7A
RE-ENTRY WORKSHEET
(Page 4 of 9)

DATA SHEET 2
PST ACTIONS
(Page 2 of 2)

Step 3. A. If recommendation/response action detailed in Step 2 above is NOT routine or covered by existing plant procedure(s), Then PERFORM a 50.59 Screening in accordance with ADM-17.11, 10 CFR 50.59 Screening (if not performed by the EOF).

50.59

Y N

B. If the actions are SAMG related, Then complete Data Sheet 5 and attach.

SAMG

Y N

Signature: _____ Date/Time: ____/____/____
PST Leader

REVISION NO.: 6	PROCEDURE TITLE: ACTIVATION AND OPERATION OF THE TECHNICAL SUPPORT CENTER	PAGE: 66 of 93
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ATTACHMENT 7A
RE-ENTRY WORKSHEET
(Page 5 of 9)

DATA SHEET 3
EC REVIEW AND APPROVAL
(Page 1 of 3)

Step 1. Review of proposed action INITIAL

A. If the action/activity is routine or covered by existing plant procedure(s), Then go to Step 2.

B. Consider the following questions in the review for task approval (EC initials required).

1. Do these actions affect the margin of nuclear safety of the unaffected Unit that has NOT been addressed? _____

2. Are the instructions clear and easy to understand? _____

3. Are all referenced components and systems properly identified and labeled? _____

4. Have appropriate engineering reviews been performed to avoid unintentional operation of systems outside design characteristics? _____

5. Do steps, that have operating parameters specified, contain operating bands? _____

Step 2. Approval

Approve as written

Approve with the following corrections/changes:

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**ATTACHMENT 7A
RE-ENTRY WORKSHEET**
(Page 6 of 9)

**DATA SHEET 3
EC REVIEW AND APPROVAL**
(Page 2 of 3)

INITIAL

CAUTION

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

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

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

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

Step 3. Priority (circle one): 0 1 2

Step 4. Signature: _____ Date/Time: ____/____/____
Emergency Coordinator

Step 5. FORWARD the Attachment 7A (appropriate data sheets) to the applicable communicator.

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

1. ASSIGN a task description: _____

2. COMPLETE Re-entry Log entry. _____
3. COMMUNICATE the task to the OSC (record time call completed: _____). _____

OR

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**ATTACHMENT 7A
RE-ENTRY WORKSHEET**
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**DATA SHEET 3
EC REVIEW AND APPROVAL**
(Page 3 of 3)

Step 5. (continued)

INITIAL

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

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

Step 6. RETURN the form to the originator named in Data Sheet 1.

END OF DATA SHEET 3

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**ATTACHMENT 7A
RE-ENTRY WORKSHEET**
(Page 8 of 9)

**DATA SHEET 4
EOF ASSISTANCE**
(Page 1 of 1)

INITIAL

Step 1. If EOF assistance is determined to be required, Then the PST Leader (or designee) shall perform the following:

- A.** SEND Data Sheets 1 and 2 to the EOF (verbal and/or telecopy). _____

Step 2.

NOTE

50.59 screening is required for any alterations of systems, structures or components. Screenings are to be performed in accordance with ADM-17.11, 10 CFR 50.59 Screening.

- A.** EOF PROVIDE recommendation/response below:

(Attach additional pages, if required)

Step 3. If recommendation/response action detailed in Step 2 above is NOT routine or covered by existing plant procedures, Then PERFORM a 50.59 screening.

Signature: _____ Date/Time: ____/____/____
Emerg. Tech. Mgr./EOF Proj. Eng.

Step 4. Emergency Technical Manager (or designee) RETURN EOF recommendation/response to the PST Leader for review and appropriate action. _____

END OF DATA SHEET 4

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ATTACHMENT 7A
RE-ENTRY WORKSHEET
(Page 9 of 9)

DATA SHEET 5
SAMG
(Page 1 of 1)

INITIAL

Step 1. If the actions are SAMG related, Then the PST Leader (or designee) shall:

- A. ASSIGN a SAMG tracking number - SAMG Sequence Number: **SAMG** - _____
- B. POST the task on the PST SAMG White Erase Board. _____

NOTE

During severe accident events, where 10 CFR 50.54(x) has been invoked on one Unit at the entry of the SAMGs, alterations affecting the other Unit's hardware, structures, systems or components, outside design basis, shall require separate 50.54(x) invocations in accordance with ADM-17.09, Invoking 10 CFR 50.54(x).

Step 2. CONSULT the TSC OPS Coordinator for 10 CFR 50.54(x) SRO evaluation. _____

Step 3. If implementation of 10 CFR 50.54(x) is required, Then IMPLEMENT ADM-17.09. _____

END OF DATA SHEET 5

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

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

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

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ATTACHMENT 8
TSC OPS COORDINATOR CHECKLIST
(Page 1 of 4)

NOTE

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

A. FACILITY ACTIVATION

INITIAL

NOTE

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

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

B. FACILITY OPERATION

1. Establish communications with counterpart. _____
2. Establish the OPS Conference Bridge as follows:
 - a. Obtain contact phone numbers for:
 1. OPS Coordinator in the Control Room _____
 2. OSC OPS Re-entry Supervisor _____
 3. Problem Solving Team _____
 4. Other participant _____

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ATTACHMENT 8
TSC OPS COORDINATOR CHECKLIST
(Page 2 of 4)

B. (continued)

INITIAL

2. (continued)

b. Call the OPS Coordinator

1. State: "stay on the line"

2. Depress the conference button

c. Call the OSC OPS Re-entry Supervisor

1. State: "stay on the line"

2. Depress the conference button

d. Call the Problem Solving Team

1. State: "press handsfree/mute button"

2. Depress the conference button

e. Call any other participant

1. State: "stay on the line"

2. Depress the conference button

f. Hail all parties to verify bridge successfully established.

3. Initiate the OPS Logbook. (TSC only)

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

TSC

a. Provide expertise in plant operations to the EC.

b. Maintain communication flow between the TSC and the affected Control Room concerning status of operations.

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ATTACHMENT 8
TSC OPS COORDINATOR CHECKLIST
(Page 3 of 4)

B. (continued)

4. (continued)

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

Control Room

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

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ATTACHMENT 8
TSC OPS COORDINATOR CHECKLIST
(Page 4 of 4)

INITIAL

C. FACILITY CLOSEOUT AND RESTORATION

NOTE

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

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

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

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

A. FACILITY ACTIVATION **INITIAL**

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

B. FACILITY OPERATION

1. In coordination with the Shift Technical Advisor (STA), establish the ERDADS link with the NRC Emergency Response Data System (ERDS) (use Attachment 9A, Initiating and Terminating the ERDS Link). _____

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

B. (continued)

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

CAUTION

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

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

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

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

C. FACILITY CLOSEOUT AND RESTORATION

INITIAL

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

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

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ATTACHMENT 9A
INITIATING AND TERMINATING THE ERDS LINK

(Page 1 of 2)

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

INITIATING the ERDS communication link:

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

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

NOTE

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

TERMINATING the ERDS communication link:

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

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

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

A. FACILITY ACTIVATION INITIAL

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

B. FACILITY OPERATION

1. Initiate the Chemistry Logbook. _____
2. Steps to occur continually while the facility is in operation:

NOTE
Dose assessment shall be a primary responsibility of the EOF once it becomes operational.

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

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ATTACHMENT 10
TSC CHEMISTRY SUPERVISOR CHECKLIST
(Page 2 of 3)

B. (continued)

CAUTION

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

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

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

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ATTACHMENT 10
TSC CHEMISTRY SUPERVISOR CHECKLIST
(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. Dose assessment activities terminated. | _____ |
| 2. Closed out the Chemistry Logbook. | _____ |
| 3. Returned position notebook to storage cabinet. | _____ |
| 4. All paperwork provided to the TSC Supervisor. | _____ |

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ATTACHMENT 11
TSC DOSE ASSESSOR CHECKLIST
(Page 1 of 2)

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

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

B. FACILITY OPERATION

NOTE

1. Initial operating instructions for use of the Class A Model are provided in EPIP-09, Off-site Dose Calculations.
2. If the computerized Class A Model is not available, dose projections shall be performed in accordance with EPIP-09.

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

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

B. (continued)

INITIAL

4. (continued)

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

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

C. FACILITY CLOSEOUT AND RESTORATION

NOTE

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

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

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

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

TEDE = Total Dose CDE = Thyroid Dose

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

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

ADDITIONAL COMMENTS: _____

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

NOTE

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

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

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

A. FACILITY ACTIVATION **INITIAL**

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

B. FACILITY OPERATION

NOTE

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

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

1. Steps to occur continually while the facility is in operation:
- a. Problem Solving Team Leader
1. Maintain command and control of all PST activities. The form provided in Attachment 12A, PST Activities List may be used by the PST to track and communicate the status of PST activities.
 2. Ensure all PST members are aware of and understand the status of equipment.
 3. Maintain high level of inquiry and investigation by all PST members.
 4. Track progress of all Re-entry Worksheets (Attachment 7A) given to or initiated by the PST.

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ST. LUCIE PLANT

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

B. FACILITY OPERATION (continued) INITIAL

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

C. FACILITY CLOSEOUT AND RESTORATION

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

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

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**ATTACHMENT 12A
PST ACTIVITIES LIST**

Status				
PST Recommendation				
Probable Cause				
Problem Description				
Item				

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

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

- | <u>A. FACILITY ACTIVATION</u> | <u>INITIAL</u> |
|---|----------------|
| 1. Refer to Section 5 of this procedure (included in the position notebook) and review the general instructions. | _____ |
| 2. Verify that the Energy Encounter has been notified of the emergency. (consult the ERD for the phone number) | _____ |
|
B. <u>FACILITY OPERATION</u> | |
| 1. Establish access control for the TSC. | _____ |
| 2. Contact the Control Rooms and request a <u>completed</u> "Operations Department Accountability Aid" be forwarded to the TSC. | _____ |
| 3. Initiate facility accountability by requesting a <u>completed</u> copy of Attachment 3A, TSC ERO Shift Staffing and Accountability Roster from the TSC Supervisor. | _____ |
| 4. Telecopy the completed Attachment 3A, TSC ERO Shift Staffing and Accountability Roster, and the "Operations Department Accountability Aid" forms to Security. | _____ |
| 5. Contact the EOF Emergency Security Manager (ESM). | _____ |
| a. Establish responsibility/protocol for notification of off-site authorities regarding the status of site evacuation. | _____ |

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ATTACHMENT 13
TSC SECURITY SUPERVISOR CHECKLIST
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- | | |
|---|----------------|
| A. (continue) | <u>INITIAL</u> |
| 6. Upon declaration of a Site Area Emergency. | _____ |
| a. Start accountability at:_____ | _____ |
| b. Start sweeps at:_____ | _____ |
| 1. Off-site work areas. | |
| 2. West forty and Fitness Center. | |
| 3. Owner Controlled Area. | |
| a. Beach side. | |
| b. River side. | |
| 4. On-site and Radiation Controlled Area. | |
| 5. Marine Research Center. | |
| c. Accountability completed at_____. | _____ |
| d. Sweeps completed at_____. | _____ |
| 7. Steps to occur continually while the facility is in operation: | |

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

- a. Advise the EC on Security related manners.

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ATTACHMENT 13
TSC SECURITY SUPERVISOR CHECKLIST
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A. (continue)

INITIAL

7. (continued)

- b. In conjunction with the ESM, provide liaison function between local law enforcement and rescue agencies and FPL for issues such as:
 - 1. Bomb threats or acts of terrorism.
 - 2. Member of the public or media arriving at the site.
 - 3. Site egress and ingress.
 - 4. Fire or rescue/medical response.
- c. Coordinate safeguards suspension with the ESM and EC.
- d. Maintain site accountability of all personnel throughout the emergency.
- e. Follow Security Procedures.

C. FACILITY CLOSEOUT AND RESTORATION

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

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



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

SAFETY RELATED

Procedure No.
EPIP-06

Current Rev. No.
3

Effective Date:
06/01/00

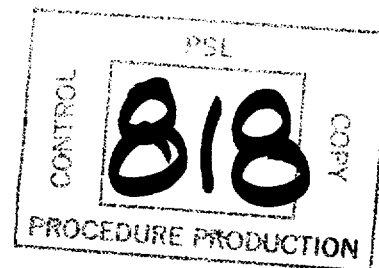
Title:

**ACTIVATION AND OPERATION OF THE
EMERGENCY OPERATIONS FACILITY**

Responsible Department: **EMERGENCY PLANNING**

Revision Summary

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	S__OPS DATE _____ DOCT PROCEDURE DOCN EPIP-06 SYS _____ COMP COMPLETED ITM 3
0	12/15/97	J. Scarola Plant General Manager	12/15/97	
Revision	FRG Review Date	Approved By	Approval Date	
3	05/30/00	R. G. West Plant General Manager	05/31/00	
Designated Approver				

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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

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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.

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2.0 REFERENCES/RECORDS REQUIRED/COMMITMENT DOCUMENTS

NOTE

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

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

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

2.1 REFERENCES

- §₁ 1. St. Lucie Plant 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

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**2.0 REFERENCES/RECORDS REQUIRED/COMMITMENT DOCUMENTS
(continued)**

2.1 REFERENCES (continued)

- §₃ **12.** Fitness for Duty Rule, 10 CFR 26
- ¶₂ **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
- ¶₃ **16.** Institute of Nuclear Power Operations, Emergency Resources Manual - INPO 86-032.
- ¶₄ **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)
- ¶₅ **2.** PMAI 99-0-024 (RM Briefing Consistency)

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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.

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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.

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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
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.

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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.

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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 the absence of the President of the Nuclear Division.
- §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)

- §₂
1. This position is not required to be in the EOF.
 2. Provides liaison function between the ECO and public officials.
 3. Works with the Governmental Affairs Representative (GAR) and Governor's Advisor.

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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.

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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**.

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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).

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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.

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.

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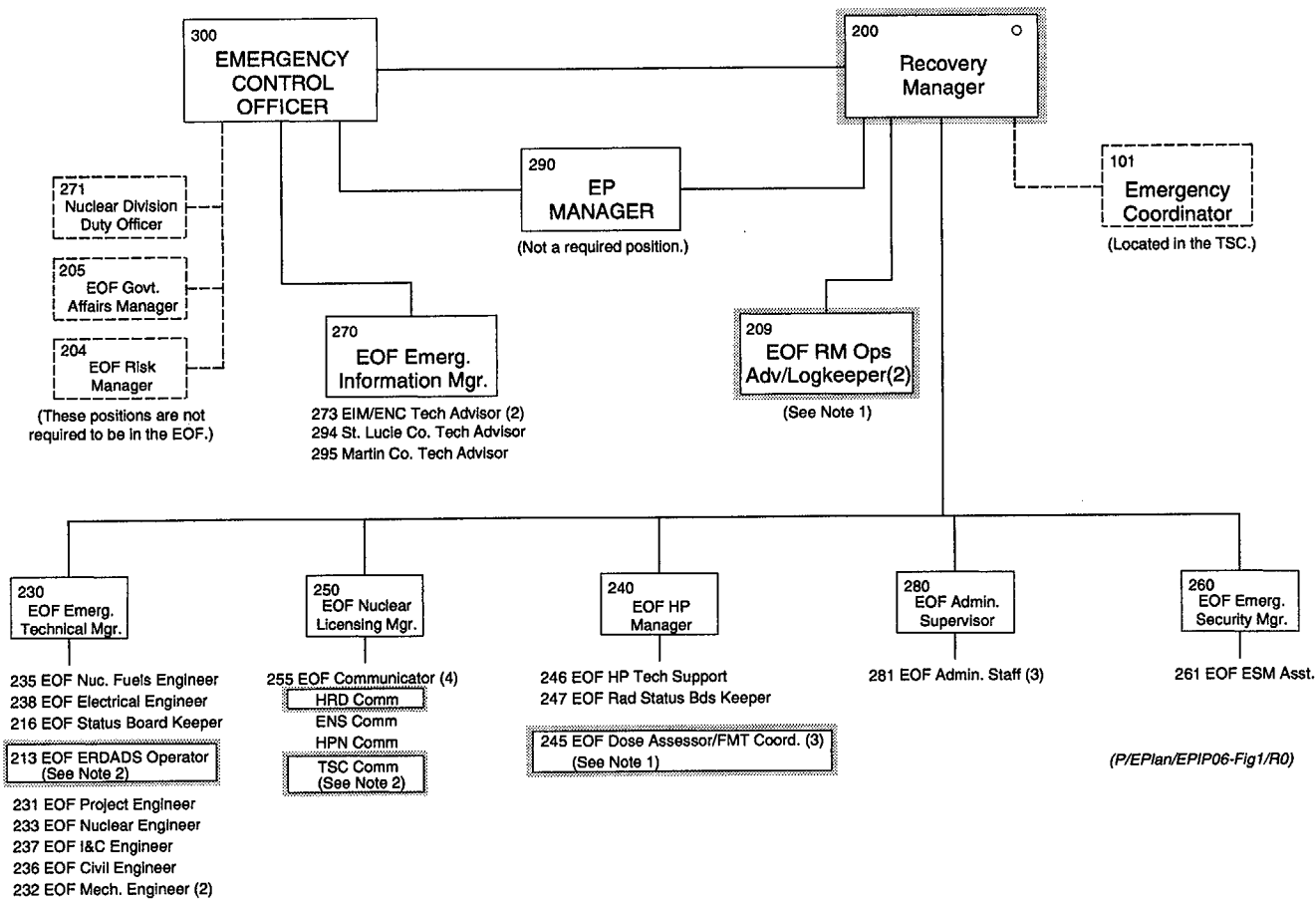
5.0 INSTRUCTIONS (continued)

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 EIPs and attachments, logs, notification forms and other notes and data sheets, and forward this material to Emergency Planning.

EOF EMERGENCY RESPONSE ORGANIZATION
ATTACHMENT 1
(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.

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ATTACHMENT 2
RECOVERY MANAGER CHECKLIST
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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. <u>FACILITY ACTIVATION</u>	<u>INITIAL</u>
1. Refer to section 5.0 of this procedure (included in the position notebook) and review the general instructions.	_____
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 _____.	_____

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ATTACHMENT 2
RECOVERY MANAGER CHECKLIST
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- | | | |
|-----------|--|-----------------------|
| A. | <u>FACILITY ACTIVATION</u> (continued) | <u>INITIAL</u> |
| | 6. Notify the following that the EOF is operational: | |
| | a. EC | _____ |
| | b. EOF staff | _____ |
| | c. State and local authorities | _____ |
| | d. NRC | _____ |
| | e. ECO | _____ |
| | 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. | <u>FACILITY OPERATION</u> | |
| | 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. | |

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ATTACHMENT 2
RECOVERY MANAGER CHECKLIST
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B. FACILITY OPERATION (continued)

3. (continued)

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".
- 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, Basis for 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.

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ATTACHMENT 2
RECOVERY MANAGER CHECKLIST
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B. FACILITY OPERATION (continued) INITIAL

3. (continued)

n. Expend funds as necessary to cope with emergency situations. (Solicit authorization from the President Nuclear Division)

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

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 to Emergency Planning. _____

ATTACHMENT 2A
EOF ERO SHIFT STAFFING
(Page 1 of 1)

SHIFT: _____

***RECOVERY MANAGER**

*Ops Advisor	HP Manager	Emergency Technical Manager
Ops Advisor	HP Tech Support	Project Eng
Nuclear Licensing Manager	*Dose Assessor/FMT Coord	Nuclear Eng
*EOF Communicator (HRD)	Dose Assessor/FMT Coord	I&C Eng
EOF Communicator (ENS)	Dose Assessor/FMT Coord	Civil Eng
EOF Communicator (HPN)	Rad Status Brd Kpr	Mechanical Eng
*EOF Communicator (TSC)	Admin Supervisor	Mechanical Eng
	Admin Staff	Nuc Fuels Eng
	Admin Staff	Electrical Eng
** EP Manager	Admin Staff	

EMERGENCY CONTROL OFFICER

Emergency Info. Manager

**Nuclear Division Duty Officer	ENC Manager	Plant Status Brd Kpr
**Risk Manager	EIM/ENC Tech Adv	*ERDADS Oper
**Gov. Affairs Manager	EIM/ENC Tech Adv	
**Gov. Adv - Tallahassee	St. Lucie County Tech Adv	
**Gov. Affairs Asst	Martin County Tech Adv Corp Comm / ENC Staff	Emergency Security Manager

- * Recommended Minimum Staffing
- ** Optional Staffing (not typically EOF responders)

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.

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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.

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ATTACHMENT 2B
EOF STAFF BRIEFING/UPDATE AGENDA
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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:

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ATTACHMENT 2C
STATE AND COUNTY PAR BRIEFING GUIDELINE

(Page 1 of 2)

The following information should be provided to representatives from the State of Florida and St. Lucie and Martin Counties during each PAR briefing. Following initial review and discussion, the OPS Advisor, HP Manager, and others as needed should remain to answer any technical questions or to provide additional clarification.

1. Affected Unit(s): PSL 1 PSL 2 Both Units

2. Current Emergency Classification: _____

3. Time when the current emergency classification was made: _____

4. Reason for the emergency declaration (in layman's terms):

5. Release Status: None / Occurred, but Stopped / Is Occurring
If a release is Occurring, then is it?
 - Within Normal Operating Limits
 - Non-significant fraction of PAG range
 - PAG range (protective actions required)

6. Weather:
Wind Direction (from) _____ Sectors Affected _____

7. Status of Reactor:
Shutdown / Core Adequately Cooled / Fuel Cladding Intact

8. Electrical Power Available: Yes No

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ATTACHMENT 2C
STATE AND COUNTY PAR BRIEFING GUIDELINE
(Page 2 of 2)

9. Affected Reactor(s) Core Condition:
Getting Better / No Change / Worsening

10. Relevant Plant Equipment Issues (if any):

11. Protective Action Recommendations:

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

Protective Actions - Implementation

- The State and Counties will determine resulting protective actions to implement.
- As soon as practical after the briefing of any PARs to the State and Counties, the RM shall consult with DEM and County representatives in the EOF concerning the actual Protective Actions Implemented (PAIs).
- When notified, record the results (using "areas") on the PAR Worksheet.
- Request that the Governor's Authorized Representative (GAR) announce the Protective Actions Implemented to the EOF staff (the RM should make the announcement if the GAR is unavailable).
- Notify the EC of the PAIs.

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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.

- §₂ 5. Verify that the Emergency Coordinator, Emergency Control Officer, DEM Governor's Authorized Representative, County Emergency Management Directors and the NRC are informed that de-escalation of the emergency classification is in order.

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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.

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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.

- | <u>A. FACILITY ACTIVATION</u> | <u>INITIAL</u> |
|--|----------------|
| 1. Refer to section 5.0 of this procedure (included in the position notebook) and review the general instructions. | _____ |
| 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 | _____ |
|
<u>B. FACILITY OPERATION</u> | |
| 1. Initiate the RM Logbook (use Attachment 3A, Typical Information to be Included in the RM Logbook). | _____ |
| 2. Review Attachment 2, Recovery Manager Checklist. | _____ |

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ATTACHMENT 3
EOF RM OPS ADVISOR/LOGKEEPER CHECKLIST
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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 completing the State Notification Form 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

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ATTACHMENT 3
EOF RM OPS ADVISOR/LOGKEEPER CHECKLIST
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C. FACILITY CLOSEOUT AND RESTORATION INITIAL

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

- | | | |
|----|--|-------|
| 1. | 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. | Returned position notebook to RM office. | _____ |
| 5. | Provided all completed paperwork to Emergency Planning. | _____ |

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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.

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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. <u>FACILITY ACTIVATION</u> | <u>INITIAL</u> |
|--|-----------------------|
| 1. Refer to section 5.0 of this procedure (included in the position notebook) and review the general instructions. | _____ |
| 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 | _____ |

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

B. <u>FACILITY OPERATION</u>	<u>INITIAL</u>
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.	

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ATTACHMENT 4
EOF EMERGENCY TECHNICAL MANAGER CHECKLIST
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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. Returned position notebook to the RM office. _____
- 6. Provided all completed paperwork to the RM. _____

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**ATTACHMENT 4A
ETM ACTIVITIES LIST**

Status					
EMT Recommendation					
Probable Cause					
Problem Description					
Item					

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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.

- | <u>A. FACILITY ACTIVATION</u> | <u>INITIAL</u> |
|---|----------------|
| 1. Refer to section 5.0 of this procedure (included in the position notebook) and review the general instructions. | _____ |
| 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. | |

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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.

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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. | Returned position notebook to the RM office. | _____ |
| 4. | Provided all completed paperwork to the ETM. | _____ |

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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:	

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

To: Recovery Manager

Date: ___/___/___

From: Emergency Technical Manager

Time: _____

TASK NO.	TASK TITLE	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: _____			

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

Emergency Technical Manager Approved: _____

	<u>SHIFT 1</u>	<u>SHIFT 2</u>	<u>SHIFT 3</u>
	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 # _____	_____	_____	_____
	_____	_____	_____

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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.

- | | | |
|-----------|---|-----------------------|
| A. | <u>FACILITY ACTIVATION</u> | <u>INITIAL</u> |
| | 1. Refer to section 5.0 of this procedure (included in the position notebook) and review the general instructions. | _____ |
| | 2. Identify availability to the EOF Project Engineer. | _____ |
| B. | <u>FACILITY OPERATION</u> | |
| | 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 appraised of status of working tasks/projects. | |

REVISION NO.: 3	PROCEDURE TITLE: ACTIVATION AND OPERATION OF THE EMERGENCY OPERATIONS FACILITY	PAGE: 46 of 117
PROCEDURE NO.: EPIP-06	ST. LUCIE PLANT	

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. Returned position notebook to the RM office. _____
4. Provided all completed paperwork to the EOF Project Engineer. _____

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PROCEDURE NO.: EPIP-06	ST. LUCIE PLANT	

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. | <u>FACILITY ACTIVATION</u> | <u>INITIAL</u> |
| | 1. Refer to section 5.0 of this procedure (included in the position notebook) and review the general instructions. | _____ |
| | 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. | _____ |
| | <u>If</u> ERDADS is inoperable or printouts are not available, <u>Then</u> : | |
| | a. Assist the EOF Communicator (to TSC) in collecting plant parameter and radiological data by completing Attachment 11 (Plant Data Sheet and Radioactive Gaseous Source Terms). | _____ |
| | b. Contact TSC ERDADS Tech to report the problem. | _____ |

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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. Returned position notebook to the RM office. _____

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**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)

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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: all fans for Unit 1; fans 6, 7, 8, 15, 16, and 17 for Unit 2.

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

II. ERDADS - COLOR/SYMBOL CONVENTIONS

<u>Color/Symbol</u>	<u>Explanation¹</u>
Numeric value in white on dark green background	Data Value is valid and within the instrument range
Numeric value blinking (yellow on blue/red on white)	Value may be yellow on blue background (urgent alarm) or red on white background (critical alarm), indicates an alarm setting has been exceeded, the alarm must be acknowledged in the Control Room (operators are unable to acknowledge ERDADS alarms in the Simulator Control Room), the value will continue to blink until acknowledged; the value will continue to update
"BAD" (blue on white)	Preceded by a numeric value in white on a blue background signifying a suspect value indicating that one or several inputs to this composite point is/are out of instrument range, when all inputs to the point are out of range the word "BAD" replaces the numeric value
"FAILED"	Point is from a single instrument and the value is out of range
"NO DATA"	Point does not have input to ERDADS, usually point available on one unit, but not the other

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

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ATTACHMENT 7B
 $\frac{1}{2}$ **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: <ul style="list-style-type: none"> • Greater than 50% of inputs have good status, result is good. • Only one good value and the total inputs are 3 or more, the result is poor. • When there are no good data values, but there are some with poor or suspect, the result is poor. • The result is suspect for all other cases except all bad, in this case the result is bad.

REVISION NO.: 3	PROCEDURE TITLE: ACTIVATION AND OPERATION OF THE EMERGENCY OPERATIONS FACILITY	PAGE: 53 of 117
PROCEDURE NO.: EPIP-06	ST. LUCIE PLANT	

ATTACHMENT 7B
1/2 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	<p>This parameter is pressurizer level. It is derived from Pressurizer Level control signals LT1110X-2 and LT1110Y-2 which are linear. These two signals are processed by an average with expanded quality algorithm. This function obtains the average of all values with a good status. It also sets the quality of the result based on the number of values with good status, versus the total number of inputs. The possible status values are:</p> <ul style="list-style-type: none"> • Greater than 50% of all inputs have good status, result is good. • Only one good value and the total inputs are 3 or more, the result is poor. • When there are no good data values, but there are some with poor or suspect, the result is poor. • The result is suspect for all other cases except all bad, in this case the result is bad. <p>The top of the heaters is 73.98 inches above the lower top centerline.</p>
Charging Flow to Regen Hx (GPM)	FT2212-1/2	RCS CHG/MU	N/A	This parameter is reactor coolant system makeup flow. It is converted to engineering units using a linear equation.
Subcooling Margin (deg. F)	QA0005-1/2	Submargin	Minimal	<p>This parameter is derived from eight subcooled values, TMARHEAD-A-1/2, TMARRCS-B-1/2, TMARUR-A-1/2, TMARHEAD-B-1/2, TMARCET-A-1/2, TMARUR-B-1/2, TMARRCS-A-1/2, and TMARCET-B-1/2, which are provided by the Qualified Safety Parameter Display System (QSPDS). They are processed by a signal auctioneering minimum algorithm. This function finds the highest usable data value in a specified group. Each data value of the group and its quality is examined and the following quantities are obtained:</p> <ol style="list-style-type: none"> 1. Lowest usable data value., 2. Point number of the lowest usable data value, 3. Number of usable data values, and 4. Lowest quality of the usable data. <ul style="list-style-type: none"> • For two or more usable data values, the result is the highest usable value and the quality is the lowest quality of the usable data. • For only one usable data value, the result is set to that value and the quality is poor. • For no usable data, the value of the result is set to the highest of all the (bad) data and the quality is bad.

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ATTACHMENT 7B
 $\frac{1}{2}$ **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	<p>This parameter is derived from 45 Unit 1 detectors, or 56 Unit 2 detectors located just above the upper fuel alignment plate. The Qualified Safety Parameter Display System (QSPDS) provides the values. They are processed by an average with expanded quality algorithm. This function obtains the average of all values with a good status. It also sets the quality of the result based on the number of values with good status, versus the total number of inputs. The possible status values are:</p> <ul style="list-style-type: none"> • Greater than 50% of inputs have good status, result is good. • Only one good value and the total inputs are 3 or more, the result is poor. • When there are no good data values, but there are some with poor or suspect, the result is poor. • The result is suspect for all other cases except all bad, in this case the result is bad.
Reactor Vessel Level (%)	Unit 1: QA0004-1 Unit 2: RLEV H-2 RLEV P-2		Minimum	<p>The reactor vessel level for Unit 1 QA0004-1 is derived from the reactor vessel levels RLEV-A-1 and RLEV-B-1 which are provided by the Qualified Safety Parameter Display System. The ERDADS select the lowest of the two values. For only one good data value, the result is set to that value and the quality is poor.</p> <p>The reactor vessel level for Unit 2 is displayed as reactor plenum level RLEV PB-2 and reactor head level RLEV HB-2 which is provided by the "B" side Qualified Safety Parameter Display System (QSPDS). These two parameters are displayed with no calculations being performed by the ERDADS computer system.</p> <p>The QSPDS obtains these values from the heated and unheated junction thermocouples located inside the reactor. They are positioned between the head and upper fuel alignment plate in the reactor internals.</p>

REVISION NO.: 3	PROCEDURE TITLE: ACTIVATION AND OPERATION OF THE EMERGENCY OPERATIONS FACILITY	PAGE: 55 of 117
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ATTACHMENT 7B
1/2 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																																												
				<table border="1"> <thead> <tr> <th>Sensor</th> <th>Location* (* in. to fuel alignment plate)</th> <th>Level Segment (%)</th> <th>Value if Uncovered (%)</th> </tr> </thead> <tbody> <tr><td>None</td><td></td><td></td><td>100</td></tr> <tr><td>1</td><td>186 1/4</td><td>20</td><td>80</td></tr> <tr><td>2</td><td>144 3/8</td><td>19</td><td>61</td></tr> <tr><td>3</td><td>108</td><td>18</td><td>43</td></tr> <tr><td>4</td><td>71 5/8</td><td>14</td><td>29</td></tr> <tr><td>5</td><td>50 5/8</td><td>10</td><td>19</td></tr> <tr><td>6</td><td>29 5/8</td><td>7</td><td>12</td></tr> <tr><td>7</td><td>19 5/8</td><td>5</td><td>7</td></tr> <tr><td>8</td><td>10 5/8</td><td>7</td><td>0</td></tr> </tbody> </table>	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	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																																													
				Unit 2 Level Information: Head separate from Plenum																																												
				<table border="1"> <thead> <tr> <th>Sensor</th> <th>Location* (* in. to fuel alignment plate)</th> <th>Level Segment (%)</th> <th>Value if Uncovered (%)</th> </tr> </thead> <tbody> <tr><td>None</td><td></td><td></td><td>100</td></tr> <tr><td>1</td><td>170 1/2</td><td>52</td><td>48</td></tr> <tr><td>2</td><td>140 3/4</td><td>28</td><td>20</td></tr> <tr><td>3</td><td>111 1/8</td><td>20</td><td>0</td></tr> <tr><td>None</td><td></td><td></td><td>100</td></tr> <tr><td>4</td><td>98 5/8</td><td>18</td><td>82</td></tr> <tr><td>5</td><td>74 5/8</td><td>21</td><td>61</td></tr> <tr><td>6</td><td>53 5/8</td><td>20</td><td>41</td></tr> <tr><td>7</td><td>32 5/8</td><td>19</td><td>22</td></tr> <tr><td>8</td><td>12 5/8</td><td>22</td><td>0</td></tr> </tbody> </table>	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
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																																													

REVISION NO.: 3	PROCEDURE TITLE: ACTIVATION AND OPERATION OF THE EMERGENCY OPERATIONS FACILITY	PAGE: 56 of 117
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ATTACHMENT 7B
 $\frac{1}{2}$ **ERDADS DATA POINTS**
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POINT DESCRIPTION	PT ID	POINT NAME	TYPE CALCULATION	NOTES
HPSI Total Flow (GPM)	HSITTLF-1/2	HPSI Flow	Sum	This parameter measures total HPSI flow and is derived from HPSI Header Flow signals FT3311-1/2, FT3321-1/2, FT3331-1/2 and FT3341-1/2 which are square roots. The signals are processed with a sum of inputs algorithm. This function obtains the algebraic sum of values with a good status.
LPSI Total Flow (GPM)	QA0908-1/2	LPSI Flow	Sum	This parameter measures total LPSI flow and is derived from LPSI Header Flow signals FT3312-1/2, FT3322-1/2, FT3332-1/2 and FT3342-1/2 which are square roots. These signals are processed by an algorithm which provides a sum of the inputs. This function obtains the algebraic sum of values with a good status.
Containment Temp. (deg. F)	TE07-3B-1/2	Cntmnt Temp	N/A	This parameter is a containment temperature instrument. It is converted to engineering units using a linear equation.
Containment Pressure WR (psig)	QA0507-1/2	Ctmnt Press	Average	<p>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:</p> <ul style="list-style-type: none"> • Greater than 50% of all inputs have good status, result is good. • Only one good value and the total inputs are 3 or more, the result is poor. • When there are no good data values, but there are some with poor or suspect, the result is poor. • The result is suspect for all other cases except all bad, in this case the result is bad.

REVISION NO.: 3	PROCEDURE TITLE: ACTIVATION AND OPERATION OF THE EMERGENCY OPERATIONS FACILITY	PAGE: 57 of 117
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ATTACHMENT 7B
 $\frac{1}{2}$ **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	<p>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.</p> <ul style="list-style-type: none"> • For two or more usable data values, the result is the highest usable data value and the quality is the lowest quality of the usable data. • For only one usable data value, the result is set to that value and the quality is poor. • For no usable data, the value of the result is set to the highest of all the (bad) data and the quality is bad.
Containment Hydrogen (%)	CH2-1/2	H2 Conc.	Average	<p>This parameter is a containment hydrogen average concentration measurement. It is derived from Hydrogen Concentration signals A-HYDROGEN-1/2 and B-HYDROGEN-1/2 which are linear. These signals are processed by an average with expanded quality algorithm. This function obtains the average of all values with a good status. It also sets the quality of the result based on the number of values with good status, versus the total number of inputs. The possible status values are:</p> <ul style="list-style-type: none"> • Greater than 50% of all inputs have good status, result is good. • Only one good value and the total inputs are 3 or more, the result is poor.
SG Level A WR (%)	LT9012-1/2	SG Level A	N/A	<p>This parameter is the "A" steam generator wide range level instrument. It is converted to engineering units using a linear equation. LTCL = Lower Tap Center Line. The lower tap is 21 inches above the bottom of the U tubes.</p>
SG Level B WR (%)	LT9022-1/2	SG Level B	N/A	<p>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.</p>

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ATTACHMENT 7B
1/2 ERDADS DATA POINTS
(Page 7 of 8)

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

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ATTACHMENT 7B
 $\frac{1}{2}$ **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.

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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.

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

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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. Returned position notebook to the RM office. _____
3. Provided all completed paperwork to the EOF Project Engineer. _____

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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. | <u>FACILITY ACTIVATION</u> | <u>INITIAL</u> |
| | 1. Refer to section 5.0 of this procedure (included in the position notebook) and review the general instructions. | _____ |
| | 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)
4. Health Physics Network (HPN)

- | | | |
|-----------|---|-------|
| B. | <u>FACILITY OPERATION</u> | |
| | 1. Initiate the Licensing Logbook (use Attachment 9A, Typical Information to be included in the Logbook). | _____ |
| | 1 ₃ 2. Verify INPO was notified. | _____ |
| | 3. Ensure backup communications devices are available and operable (work with the EOF Administrative Supervisor). | |

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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. _____

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ATTACHMENT 9
EOF NUCLEAR LICENSING MANAGER CHECKLIST
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- | | | |
|----|--|----------------|
| C. | <u>FACILITY CLOSEOUT AND RESTORATION</u> (continued) | <u>INITIAL</u> |
| 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. | Returned position notebook to the RM office. | _____ |
| 7. | Provided all completed paperwork to the RM. | _____ |

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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.

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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 and checklists, and other pertinent information be transmitted to the EOF. _____

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ATTACHMENT 10
EOF COMMUNICATOR CHECKLIST
(Page 2 of 4)

B.	<u>FACILITY OPERATION</u>	<u>INITIAL</u>
-----------	----------------------------------	-----------------------

- | | | |
|----|--|-------|
| 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 Form for completeness. | |
| 2. | As necessary, ensuring Protective Action Recommendations (PARs) match the PARs Worksheet (see Notification from the Emergency Operations Facility in EPIP-08, Off-site Notifications and Protective Action Recommendations). | |
| 3. | Ensuring the RM has approved the form. | |
| b. | Transmit the notification from in accordance with EPIP-08. | |
| c. | Request the EOF RM OPS Advisor/Logkeeper log notification times. | |

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ATTACHMENT 10
EOF COMMUNICATOR CHECKLIST
(Page 3 of 4)

B. FACILITY OPERATION (continued)

5. (continued)

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

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ATTACHMENT 10
EOF COMMUNICATOR CHECKLIST
(Page 4 of 4)

C. FACILITY CLOSEOUT AND RESTORATION INITIAL

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

1. All communication links (HRD, ENS, HPN, TSC) terminated. _____
2. All communications paperwork collected. _____
3. All phone equipment returned to pre-activation condition. _____
4. Returned position notebook to the RM office. _____
5. Provided all completed paperwork to the EOF Nuclear Licensing Manager. _____

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**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 Epsilon	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.

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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.

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ATTACHMENT 10A
COMMUNICATIONS GUIDELINES
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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.

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ATTACHMENT 10A
COMMUNICATIONS GUIDELINES
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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.

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**ATTACHMENT 10A
COMMUNICATIONS GUIDELINES**

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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 FTS 2000 phone system. 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.

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ATTACHMENT 10A
COMMUNICATIONS GUIDELINES

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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 FTS 2000 phone system. 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.

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ATTACHMENT 10A
COMMUNICATIONS GUIDELINES
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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

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ATTACHMENT 10A
COMMUNICATIONS GUIDELINES

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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.

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**ATTACHMENT 10B
PLANT DATA SHEET**
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ERDADS RG1 Screen Mimic

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

<u>CHANNEL</u>	<u>MAIN STEAM</u>	<u>VALUE</u>	<u>UNITS</u>	<u>CHANNEL</u>	<u>CONTAINMENT</u>	<u>VALUE</u>	<u>UNITS</u>
05-01	A MAIN STM	_____	MR/HR	58	A HI RANGE	_____	R/HR
05-02	B MAIN STM	_____	MR/HR	59	B HI RANGE	_____	R/HR
					PRESSURE	_____	PSIG

<u>CHANNEL</u>	<u>ECCS 1A</u>	<u>VALUE</u>	<u>UNITS</u>	<u>CHANNEL</u>	<u>PLANT VENT</u>	<u>VALUE</u>	<u>UNITS</u>
02-05	LOW RANGE	_____	uC/cc	01-05	LOW RANGE	_____	uC/cc
02-07	MID RANGE	_____	uC/cc	01-07	MID RANGE	_____	uC/cc
02-09	HI RANGE	_____	uC/cc	01-09	HI RANGE	_____	uC/cc
02-10	FLOW	_____	SCFM	01-10	FLOW	_____	SCFM

<u>CHANNEL</u>	<u>ECCS 1B</u>	<u>VALUE</u>	<u>UNITS</u>	<u>CHANNEL</u>	<u>FUEL BLDG</u>	<u>VALUE</u>	<u>UNITS</u>
03-05	LOW RANGE	_____	uC/cc	04-05	LOW RANGE	_____	uC/cc
03-07	MID RANGE	_____	uC/cc	04-07	MID RANGE	_____	uC/cc
03-09	HI RANGE	_____	uC/cc	04-09	HI RANGE	_____	uC/cc
03-10	FLOW	_____	SCFM	04-10	FLOW	_____	SCFM

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**ATTACHMENT 10B
PLANT DATA SHEET**
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ERDADS RG2 Screen Mimic

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

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

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

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

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ATTACHMENT 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. _____

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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.

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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.

- | | | | <u>INITIAL</u> |
|-----------|---|--|----------------|
| A. | <u>FACILITY ACTIVATION</u> | | |
| 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. | <u>FACILITY OPERATION</u> | | |
| 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. | | |

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ATTACHMENT 12
EOF HEALTH PHYSICS MANAGER CHECKLIST
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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 EPIP-08, Off-site Notifications and Protective Action Recommendations).
- e. Review emergency dose extensions with the RM and the EC (use Attachment 12A, Basis for Exposure Limits for Emergency Response Personnel).
- f. Provide technical support to EOF Communicators.
- g. Interface with the EOF ETM to resolve issues involving plant components affecting plant releases.
- h. Provide radiological information to support the EOF EIM and the Emergency News Center (ENC).
- i. Interface with the State Bureau of Radiation Control.
- j. Keep the RM abreast of the status of Bureau of Radiation Control activities.
- k. Interface with the NRC Protective Measures Coordinator when the NRC Site Team arrives onsite.
- l. Support recovery planning as requested by the RM.

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ATTACHMENT 12
EOF HEALTH PHYSICS MANAGER CHECKLIST
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C. FACILITY CLOSEOUT AND RESTORATION INITIAL

NOTE

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

- | | |
|---|-------|
| 1. 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. Returned position notebook to the RM office. | _____ |
| 6. Provided all completed paperwork to the RM. | _____ |

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ATTACHMENT 12A
§_{2,14} BASIS FOR EXPOSURE LIMITS FOR
EMERGENCY RESPONSE PERSONNEL

(Page 1 of 3)

Exposure to emergency response personnel should be maintained As Low As Reasonably Achievable (ALARA). Actions taken during an emergency should take into consideration the amount of exposure required to accomplish the task versus the potential benefit to the public health and safety.

Conditions may warrant re-entry into high radiation areas leading to exposure in excess of the regulatory limit. Except for rescue of personnel (life-saving only), authorization must be given in advance by the Emergency Coordinator (EC) in consultation with the TSC Health Physics Supervisor (or alternate). If time permits, the EC should obtain concurrence from the Recovery Manager if the EOF is operational. In any case, where regulatory limits have been exceeded the EC shall notify the RM of the event.

For those remote circumstances involving an event in progress and obtaining EC approval will result in leaving the accident scene or decrease the victim(s) chance of survival, lifesaving actions may be performed without obtaining EC approval. The EC shall be notified immediately following the rescue operation.

Re-entry personnel that have been selected/chosen to exceed regulatory exposure limits should be volunteers⁽⁴⁾, broadly familiar with the risks involved (radiosensitivity of fetuses, effects of acute exposures, etc.), whose normal duties have trained them for such missions.

EPA 400 Manual of Protective Action Guides and Protective Actions for Nuclear Incidents, EPA 400-R-92-001 states that "To assure adequate protection of minors and the unborn during emergencies, the performance of emergency services should be limited to non-pregnant adults". FPL endorses this guidance; however, FPL recognizes that it is the right of the worker to make the decision to perform as an on-site emergency worker, understanding the potential risks involved.

Since, by their very nature, emergency exposures requiring immediate action are not planned, they are not controlled as a Planned Special Exposure. Dose received from exposure under emergency conditions will be added to the dose received during the current year, prior to the emergency, to determine compliance with the occupational dose limits in 10 CFR 20.

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ATTACHMENT 12A
§2, 14 BASIS FOR EXPOSURE LIMITS FOR
EMERGENCY RESPONSE PERSONNEL
 (Page 2 of 3)

Doses above regulatory limits will require reporting pursuant to 10 CFR 20.2202 and 20.2203. Any dose in excess of the annual limits specified in Section 20.1201(a) will be accounted for in accordance with 10 CFR 20.1206(e). If an individual exceeds any of these limits, then the individual will not be available for additional dose under 20.1201(a).

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 <u>non-life</u> threatening situation, minimize exposures or minimize effluent releases.	10 REM	100 REM
Performance of actions that decrease the severity of the event or terminate the processes causing the event in an attempt to control effluent releases to avoid extensive exposure of large populations. Also, rescue of persons from a <u>life-threatening</u> situation.	25 REM	250 REM
Rescue of person from a <u>life-threatening</u> situation. (Volunteers ⁽⁴⁾ should be above the age of 45.)	(5)	(5)

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ATTACHMENT 12A

**§_{2, 14} BASIS FOR EXPOSURE LIMITS FOR
EMERGENCY RESPONSE PERSONNEL**

(Page 3 of 3)

- (1) Exposure limits to the lens of the eye are 3 times the Total Dose (TEDE) values listed.
- (2) Total Dose (TEDE) is the total whole body exposure from both external and internal (weighted) sources - Total Effective Dose Equivalent.
- (3) Thyroid Dose (CDE) commitment from internal sources - Committed Dose Equivalent. The same dose limits also apply to other organs (CDE), skin (Shallow Dose Equivalent) and extremities (Extremity Dose Equivalent).
- (4) Volunteers with full awareness of risks involved including numerical levels of dose at which acute effects of radiation will be incurred and numerical estimates of the risk of delayed effects.
- (5) No upper limit for Total Dose (TEDE) and/or Thyroid Dose (CDE) exposure has been established because it is not possible to prejudge the risks that one person should be allowed to take to save the life of another. Also, no specific limit is given for thyroid exposure since in the extreme case, complete thyroid loss might be an acceptable sacrifice for a life saved. This should not be necessary if respirators and/or thyroid protection for rescue personnel are available as the result of adequate planning.

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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. _____

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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. Returned position notebook to the RM office. _____
6. Provided all completed paperwork to EOF HP Manager. _____

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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. | <u>FACILITY ACTIVATION</u> | <u>INITIAL</u> |
| | 1. Refer to section 5.0 of this procedure (included in the position notebook) and review the general instructions. | _____ |
| | 2. Identify availability to EOF Health Physics Manager. | _____ |
| B. | <u>FACILITY OPERATION</u> | |
| | 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. | |

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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. Returned position notebook to the RM office. _____
4. Provided all completed paperwork to the EOF HP Manager. _____

REVISION NO.: 3	PROCEDURE TITLE: ACTIVATION AND OPERATION OF THE EMERGENCY OPERATIONS FACILITY	PAGE: 93 of 117
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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. | <u>FACILITY ACTIVATION</u> | <u>INITIAL</u> |
| | 1. Refer to section 5.0 of this procedure (included in the position notebook) and review the general instructions. | _____ |
| | 2. Identify availability to the EOF Health Physics Manager. | _____ |
| B. | <u>FACILITY OPERATION</u> | |
| | 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. | |

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ATTACHMENT 15
EOF RAD STATUS BOARD KEEPER CHECKLIST
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C. FACILITY CLOSEOUT AND RESTORATION INITIAL

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

- | | | |
|----|---|-------|
| 1. | Status boards have been cleared and returned to pre-activation condition. | _____ |
| 2. | Equipment and supplies have been returned to the HP Emergency Kit. | _____ |
| 3. | Returned position notebook to the RM office. | _____ |
| 4. | Provided all completed paperwork to the EOF HP Manager. | _____ |

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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. <u>FACILITY ACTIVATION</u> | <u>INITIAL</u> |
|---|-----------------------|
| 1. Refer to section 5.0 of this procedure (included in the position notebook) and review the general instructions. | _____ |
| 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. | |

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

B. <u>FACILITY OPERATION</u>	<u>INITIAL</u>
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.	

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ATTACHMENT 16
EOF ADMINISTRATIVE SUPERVISOR CHECKLIST
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C. FACILITY CLOSEOUT AND RESTORATION INITIAL

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

1. Supervised facility walkthrough to ensure all documents, equipment, and supplies were returned to pre-activation condition and/or location. _____
2. Returned position notebook to the RM office. _____
3. Provided all completed paperwork to the RM. _____

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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. | <u>FACILITY ACTIVATION</u> | <u>INITIAL</u> |
| 1. | Refer to section 5.0 of this procedure (included in the position notebook) and review the general instructions. | _____ |
| 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. In Lotus Notes, click on the PSL Procedures Icon. | |
| | b. On the Search line toolbar, click the far right button (with 2 circles and a down arrow). | |
| | c. Select Group Search from the drop down menu. | |
| | d. In the Search line type "EP" (where the "XX" is). | |
| | e. Click Search or hit Enter. | |
| | f. EPIP list is now displayed (not in any particular order). | |
| | g. To print the list: | |
| | - Click File. | |
| | - Select Print from the drop down menu. | |
| | - Select View Options in the dialogue box. | |
| | - Click OK. | |

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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.

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ATTACHMENT 17
EOF ADMINISTRATIVE STAFF CHECKLIST
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C. FACILITY CLOSEOUT AND RESTORATION INITIAL

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

1. 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. Returned position notebook to the RM office. _____
5. Provided completed paperwork to the EOF Administrative Supervisor. _____

REVISION NO.: 3	PROCEDURE TITLE: ACTIVATION AND OPERATION OF THE EMERGENCY OPERATIONS FACILITY	PAGE: 102 of 117
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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.

- | | <u>FACILITY ACTIVATION</u> | <u>INITIAL</u> |
|----------------|--|----------------|
| | 1. Refer to section 5.0 of this procedure (included in the position notebook) and review the general instructions. | _____ |
| | 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. | _____ |
| |
<u>FACILITY OPERATION</u> | |
| | 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. | |

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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. _____

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ATTACHMENT 18
EOF EMERGENCY SECURITY MANAGER CHECKLIST
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- | C. <u>FACILITY CLOSEOUT AND RESTORATION</u> | <u>INITIAL</u> |
|---|-----------------------|
| 4. Returned position notebook to the RM office. | _____ |
| 5. Provided all completed paperwork to the RM. | _____ |
| 6. All access badges returned to pre-activation location. | _____ |
| 7. Facility sweep completed. | _____ |
| 8. Facility locked and alarm set. | _____ |

REVISION NO.: 3	PROCEDURE TITLE: ACTIVATION AND OPERATION OF THE EMERGENCY OPERATIONS FACILITY	PAGE: 105 of 117
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**ATTACHMENT 18A
INJURED PERSON REPORT
(Page 1 of 1)**

NAME:		EMPLOYER: <input type="checkbox"/> FPL <input type="checkbox"/> OTHER (list company name)	JOB DESCRIPTION:
TIME INJURED:	TIME REPORTED:	NATURE OF INJURY:	LOCATION WHERE INJURY OCCURRED:
IS THE VICTIM CONTAMINATED? <input type="checkbox"/> NO <input type="checkbox"/> YES		WHAT BODY PARTS CONTAMINATED?	LEVEL OF CONTAMINATION AREA _____ LEVEL _____ DPM _____ CPM AREA _____ LEVEL _____ DPM _____ CPM AREA _____ LEVEL _____ DPM _____ CPM
TRANSPORTED TO HOSPITAL? <input type="checkbox"/> NO <input type="checkbox"/> YES		HOW TRANSPORTED?	NAME OF HOSPITAL OR OTHER LOCATION
ACTIVITY AT THE TIME INJURY OCCURRED		CURRENT MEDICAL CONDITION	
MISC. INFO.			

NAME:		EMPLOYER: <input type="checkbox"/> FPL <input type="checkbox"/> OTHER (list company name)	JOB DESCRIPTION:
TIME INJURED:	TIME REPORTED:	NATURE OF INJURY:	LOCATION WHERE INJURY OCCURRED:
IS THE VICTIM CONTAMINATED? <input type="checkbox"/> NO <input type="checkbox"/> YES		WHAT BODY PARTS CONTAMINATED?	LEVEL OF CONTAMINATION AREA _____ LEVEL _____ DPM _____ CPM AREA _____ LEVEL _____ DPM _____ CPM AREA _____ LEVEL _____ DPM _____ CPM
TRANSPORTED TO HOSPITAL? <input type="checkbox"/> NO <input type="checkbox"/> YES		HOW TRANSPORTED?	NAME OF HOSPITAL OR OTHER LOCATION
ACTIVITY AT THE TIME INJURY OCCURRED		CURRENT MEDICAL CONDITION	
MISC. INFO.			

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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.

- | <u>A. FACILITY ACTIVATION</u> | <u>INITIAL</u> |
|--|----------------|
| 1. Refer to section 5.0 of this procedure (included in the position notebook) and review the general instructions. | _____ |
| <u>B. FACILITY OPERATION</u> | |
| 1. 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. | |

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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. Returned position notebook to the RM office. _____
- 5. Provided all completed paperwork to the RM. _____

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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 President - Nuclear Division.

Do not remove pages from the Logbook.

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

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.

C. FACILITY CLOSEOUT AND RESTORATION

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 to the RM. _____

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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.

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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. _____

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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. <u>FACILITY ACTIVATION</u> | <u>INITIAL</u> |
|--|-----------------------|
| 1. Refer to section 5.0 of this procedure (included in the position notebook) and review the general instructions. | _____ |
| 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. <u>FACILITY OPERATION</u> | |
| 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. | _____ |

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ATTACHMENT 22
EMERGENCY INFORMATION MANAGER CHECKLIST
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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.

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ATTACHMENT 22
EMERGENCY INFORMATION MANAGER CHECKLIST
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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 to the RM. _____

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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 preceded 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.

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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. | <u>FACILITY ACTIVATION</u> | <u>INITIAL</u> |
| | 1. Refer to section 5.0 of this procedure (included in the position notebook) and review the general instructions. | _____ |
| B. | <u>FACILITY OPERATION</u> | |
| | 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). | |

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ATTACHMENT 23
EIM/ENC TECHNICAL ADVISOR CHECKLIST
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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. Returned position notebook to RM office. _____
5. Provided all completed paperwork to the EIM. _____



FPL

ST. LUCIE PLANT

EMERGENCY PLAN IMPLEMENTATION PROCEDURE

SAFETY RELATED

Procedure No.

EPIP-08

Current Revision No.

0

Effective Date

06/01/00

Title:

OFF-SITE NOTIFICATIONS AND PROTECTIVE ACTION RECOMMENDATIONS

Responsible Department: **EMERGENCY PLANNING**

REVISION SUMMARY:

Revision 0 – This procedure provides information and instructions for the completion of off-site notifications and Protective Action Recommendations (PARS).
(Steve Knapp, 05/31/00)



Revision <u>0</u>	FRG Review Date <u>05/30/00</u>	Approved By <u>R. G. West</u> Plant General Manager	Approval Date <u>05/31/00</u>	S__ OPS
Revision _____	FRG Review Date _____	Approved By _____	Approval Date _____	DATE
		Plant General Manager		DOCT
				DOCN
				SYS
				COM
				ITM
		Designated Approver		PROCEDURE
				EPIP-08
				COMPLETED
				0

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1.0 PURPOSE

1.1 Discussion

1. This procedure provides information and instructions for the completion of off-site notifications and Protective Action Recommendations (PARS).
2. This procedure is applicable to both Unit 1 and Unit 2.
3. This procedure is for use in the Control Room, Technical Support Center (TSC) and Emergency Operations Center (EOF).
4. Upon initial Declaration of an emergency classification the NPS assumes the duties of the Emergency Coordinator (EC). The EC position remains initially in the affected Control Room and then transfers to the Technical Support Center (TSC) if the TSC goes Operational. The TSC is required to be activated at an Alert or higher Emergency Class. The duties of the EC are turned over to an EC qualified member of plant management when the TSC goes Operational in accordance with EPIP-02, Duties And Responsibilities Of The Emergency Coordinator. The duties may also be turned over to another EC qualified individual in cases when there is a prolonged event such as a hurricane.
5. To meet responsibilities the EC will likely need to delegate many tasks. Although delegated, the completion of these tasks is still the responsibility of the EC. The EC shall not delegate the following responsibilities prior to the Emergency Operations Facility (EOF) being declared operational:
 - A. Classification of the emergency.
 - B. The decision to notify state and local agencies and the content of those notifications.
 - C. The decision to issue Protective Action Recommendations (PARs) for the public.

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1.1 Discussion (continued)

NOTE

Once the EOF is operational and proper turnover has been conducted, the Recovery Manager (RM) will assume responsibility for notifications to State and local agencies, the NRC and for Protective Action Recommendations.

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.

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

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 assumes responsibility for notifying their duty officer.

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1.1 Discussion (continued)

7. B. (continued)

1. State and Local Agencies are notified by using the Hot Ring Down (HRD) telephone. The HRD rings the State Warning Point. The State Warning Point puts the other agencies on line and reduces the need for individual calls. The NRC is notified using the Emergency Notification System (ENS) telephone. See Attachment 1 for information about Primary Emergency Communications Systems.
2. ¶4 After the State Coordinating Officer arrives in the EOF, he / she can transfer "NET Control" to the EOF. When this occurs, the Recovery Manager's briefing becomes the primary notification method for the State and Counties. The Florida Nuclear Plant Emergency Notification Form (form similar to Attachment 2) and the Supplemental Data Sheet (form similar to Attachment 2A) should still be completed and provided to the State Coordinating Officer or his / her designee in the EOF. Calls by FPL personnel over the Hot Ring Down telephone should no longer be made.
3. NRC notifications occur through an open line of communication in the TSC and, when operational, the EOF.

8. Protective Action Recommendations

- A. Initial notification from the Control Room will utilize PARs based on plant conditions. Once dose assessment begins, (PARs) should be made utilizing all of the available data including plant conditions, field monitoring data or off-site dose projections. **Both plant conditions AND off-site doses shall be considered for PARs.** The most conservative (extensive) 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.

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1.1 Discussion (continued)

8. (continued)

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. (Sectors affected are at least three, including 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.

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.

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2.0 REFERENCES / RECORDS REQUIRED / COMMITMENT DOCUMENTS

NOTE

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

- § Indicates a Regulatory commitment made by Technical Specifications, Condition of License, Audit, LER, Bulletin, 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. § St. Lucie Plant Radiological Emergency Plan (E-Plan)
4. E-Plan Implementing Procedures (EPIP-00 – 13)
5. QI-17-PSL-1, Quality Assurance Records

2.2 Records Required

1. All PAR worksheets and notifications forms (Attachment 2 and 2A) 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)
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)

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2.3 Commitment Documents (continued)

- 5. ¶₅ PMAI PM00-03-121 (Incorporate Wind Shift Guidance for PARs)
- 6. ¶₆ PMAI PM96-05-233 (Off-site Notification Process)
- 7. ¶₇ PMAI PM99-09-016 (PARs Based on FMT Data, Completion of NRC Notification Form)

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 EC with forms and notifications.
- 3.4 TSC EC Assistant / Logkeeper or TSC OPS Coordinator – Prepares notification forms for EC approval when the TSC is operational.
- 3.5 EOF RM OPS Advisor – Prepares notification forms for RM approval when the EOF is operational.
- 3.6 TSC HRD Communicator – Assists TSC EC Assistant / Logkeeper or TSC OPS Coordinator with form preparation and makes calls to complete notifications.
- 3.7 EOF HRD Communicator – Assists EOF RM OPS Advisor with form preparation and makes calls to complete notifications.
- 3.8 TSC Chemistry Supervisor (in his absence, TSC Dose Assessor) – Assists EC with radiological dose assessment data and PARS.
- 3.9 HP Manager (in his absence, EOF Dose Assessor) – Assists RM with radiological dose assessment data and PARS.
- 3.10 Licensing Manager – Oversees EOF communications performed by HRD Communicator, ENS Communicator, HPN Communicator and TSC Communicator.

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4.0 DEFINITIONS

- 4.1 Emergency** – Any off-normal event or condition which is classified into one of the four event categories (Unusual Event, Alert, Site Area Emergency, or General Emergency) by the NPS in accordance with EPIP-01, Classification of Emergencies.
- 4.2 Emergency Coordinator** – The title assumed by the NPS, until relieved by plant management through proper turnover, in the event of plant conditions that trigger the Emergency Plan. The Emergency Coordinator (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.
- 4.3 Florida Nuclear Plant Emergency Notification Form** = State Notification Form (SNF).
- 4.4 Operational** (status for an emergency facility) – The mandatory minimum staff is present and the facility has taken responsibility for its procedurally assigned functions.
- 4.5 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.
- 4.6 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.
- 4.7 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.

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4.8 Notification Process – defined to include the following steps:

1. Declaration of the Emergency Class by the Emergency Coordinator.
2. Completion of the notification forms with the required information consistent with the declared Emergency Class.
3. Approval of the information by the Emergency Coordinator (Recovery Manager when EOF is Operational).
4. Transmission of the information on the notification forms within the time limits mandated by the regulations.

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5.0 INSTRUCTIONS

5.1 NONE

END OF SECTION 5.0

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APPENDIX A
NOTIFICATIONS FROM THE AFFECTED CONTROL ROOM
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- The EC has responsibility for notifications and PARs. The Duty Call Supervisor (DCS), or other personnel in the Control Room designated by the EC, shall assist. When the TSC becomes operational, TSC personnel take over this function. The DCS should provide the EC with documentation of any notifications made from the Control Room.
- The Duty Call Supervisor should make a mental note of the time when the notification is due and ensure that it is done within 15 minutes of classification.
- Off-site Communication Content and Protocol
 1. Complete the Florida Nuclear Plant Emergency Notification Form (form similar to Attachment 2 of this procedure). The Supplemental Data Sheet (form similar to Attachment 2A) is not for use in the Control Room.
 2. When describing the emergency. It should be clear from the "Reason For Emergency Declaration" which Emergency Action Level (EAL) required the emergency declaration. Wording should be non-technical with no acronyms or abbreviations (e.g., reactor coolant pump instead of RCP).

NOTE

If, due to rapidly degrading conditions, Emergency Class escalation is known to be necessary, and the new notification might not be ready within the original fifteen-minute requirement, then provide the state and local agencies with the prepared notification by completing items 1-6 of the Florida Nuclear Plant Emergency Notification Form and telling them a new notification will follow within fifteen minutes.

3. A classification made by the EC can be skipped during notifications only if the new higher classification will be transmitted within 15 minutes of the declaration that is to be skipped.

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APPENDIX A
NOTIFICATIONS FROM THE AFFECTED CONTROL ROOM
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4. Determining Downwind Sectors Affected
- A. 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.
 - B. If the indication 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.), an additional (fourth) sector should be added.

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	

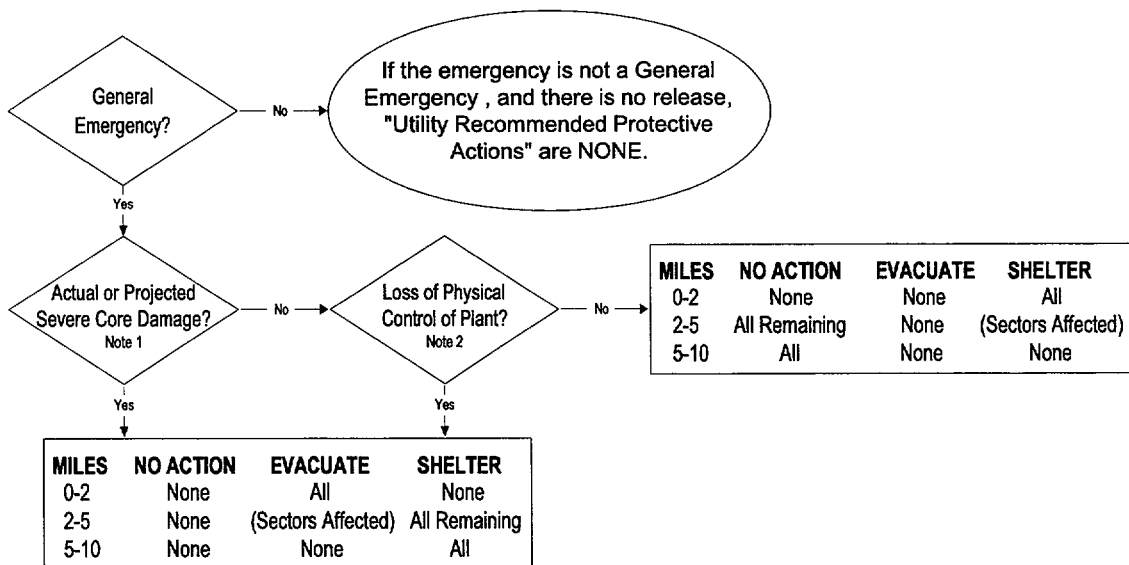
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5. PARs Based on Plant Conditions.

CAUTION

If a release occurs, notify the EC that a dose assessor is required and follow the EC's directions for PARs. The EC should use the guidance in Appendix B of this procedure for determining PARs in the event of a release.

- A.** Beginning at the top left of the PAR flowchart below, answer the General Emergency question.
- B.** If the emergency is not a General Emergency (GE), and there is no release, "Utility Recommended Protective Actions" are NONE. If it is a GE, continue using the flowchart.
- C.** Use the appropriate answer to each question to continue until you reach one of the two boxes that provide PAR information based on plant conditions.



- 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 (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.

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5. (continued)

D. Transfer the correct PARs information to the Florida Nuclear Plant Emergency Notification Form using the **actual letters of the sectors affected** where "(Sectors Affected)" is indicated in the flowchart's PARs box.

6. Off-site Communication Protocol

CAUTION

- ¶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.
- ¶₁ 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.
- ¶₃ A new Florida Nuclear Plant Emergency Notification Form shall be completed for all updates.

A. **Obtain the Emergency Coordinator Approval signature prior to any off-site communication.** _____

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

C. 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 answers, announce "This is St. Lucie Nuclear Plant [as applicable (Unit 1, 2)] with an emergency declaration. I am standing by to transmit Florida Nuclear Plant Emergency Notification Form information when you are ready to copy." Allow the State Warning Point to contact St. Lucie County, Martin County and the Bureau of Radiation Control prior to transmitting the information from the Florida Nuclear Plant Emergency Notification Form. When the parties are on line, provide the information slowly and deliberately with time for the duty officers to write the data. _____

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6. (continued)

D. Alternate Communications if Hot Ring Down is not Available (If HRD is used, skip to section E, NRC Notification).

1. Alternate 1 – Commercial Phone

NOTE

Use of the commercial telephone as an alternate notification method requires callback verification from the State Warning Point. Use of ESATCOM or Local Government Radio as an alternate notification method should include a callback verification number if available (e.g., cellular phone).

a. 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, TSC or EOF)] 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.

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6. 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 [as applicable (Unit 1, 2, TSC or EOF)] 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, TSC or EOF)] declaring 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. _____

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6. D. (continued)

NOTE

Use local government radio 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, TSC or EOF)] 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, TSC or EOF)] declaring 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, TSC or EOF)], KNGR 874, over and out." _____

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6. (continued)

E. § NRC Notification

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. The initial contact with the NRC will include use of the NRC Event Notification Worksheet (Attachment 3). The Duty Call Supervisor (DCS), or other personnel in the Control Room designated by the EC, may assist with this function.

1. Prepare the NRC Event Notification Worksheet. _____

2. Notify the NRC via the Emergency Notification System (ENS) telephone 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)). The NRC Emergency Notification System (ENS) is the primary communications pathway to the NRC. ENS is part of the NRC FTS 2000 phone system. Initiate contact by dialing (direct, no access code needed) one of the phone numbers provided on the phone or in the ERD. This will become an open line of communication at the Alert or higher emergency class. _____

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6. (continued)

F. When State, Local and NRC Notifications Are Required

1. If one unit is in a classified event and the same or the other unit enters into an event where the same or lesser emergency class would apply, a new classification should NOT be declared. The event should be reported as an update at the earliest practicable time.
2. If one unit is in a classified event and the other unit enters into a more severe event in which a higher emergency class applies, the new classification would be declared and promptly reported, within 15 minutes, to the State and counties and immediately afterward (within 60 minutes) to the NRC.
3. Additional Guidance on When to Make Notifications

CAUTION

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

Within 15 minutes:

- Initial Emergency Classification
- Reclassification
- Issue of PARs
- PAR change

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6. F. 3. (continued)

Within 60 minutes:

- Termination of the emergency
- Start of a release
- Termination of a release
- Significant change in plant conditions
- Loss or restoration of major plant equipment
- Loss or restoration of off-site or on-site power
- If notification has not been made within an hour, routine update should be made unless other frequency is agreed to by off-site agencies and FPL in advance.

END OF APPENDIX A

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- During the initial stages of an emergency the EC has responsibility for notifications and PARs. When the TSC becomes operational the TSC EC Assistant / Logkeeper should prepare the notification forms. The TSC OPS Coordinator is his alternate. The TSC Communicator makes calls to complete notifications.
- A TSC Communicator should forward documentation from any notifications made from the Control Room, and the TSC, to the EOF.
- When the EOF becomes operational the Recovery Manager has responsibility for notifications and PARs. The TSC Communicator is no longer required to make notification calls but the Communicator, who is on the open line with the NRC, should remain on the line with the EOF taking the lead.
- The TSC EC Assistant / Logkeeper should make a mental note of the time when the notification is due and ensure that it is done within 15 minutes of classification.
- Off-site Communication Content and Protocol
 1. When notifications are necessary provide the state and local agencies with notification information by completing both the Florida Nuclear Plant Emergency Notification Form (form similar to Attachment 2) and, when time permits, the Supplemental Data Sheet (form similar to Attachment 2A).

NOTE

If, due to rapidly degrading conditions, Emergency Class escalation is known to be necessary, and the new notification might not be ready within the original fifteen-minute requirement, then provide the state and local agencies with the prepared notification by completing items 1-6 of the Florida Nuclear Plant Emergency Notification Form and telling them a new notification will follow within fifteen minutes.

2. It is not necessary to complete a Supplemental Data Sheet to make a notification.
3. A classification made by the EC can be skipped during notifications only if the new higher classification will be transmitted within 15 minutes of the declaration which is to be skipped.

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4. It should be clear from the "Reason For Emergency Declaration" which Emergency Action Level (EAL) required the emergency declaration. Wording should be non-technical with no acronyms or abbreviations (e.g., reactor coolant pump instead of RCP).
5. Determining "Downwind Sectors Affected"
 - A. Wind direction can be obtained from the TSC ERDADS Operator or directly 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.
 - B. If the indication 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.), an additional (fourth) sector should be added.

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 <u>no</u> "O" sector		There is <u>no</u> "I" sector	

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6. PARs Based on Plant Conditions

NOTE

Initial notification from the Control Room may utilize PARs based on plant conditions. Once dose assessment begins, (PARs) should be made utilizing all of the available data including plant conditions, field monitoring data or off-site dose projections. **Both plant conditions AND off-site doses shall be considered for PARs.** The most conservative (extensive) 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.

- A. Beginning at the top left of the PAR flowchart below, answer the General Emergency question.
- B. If the emergency is not a General Emergency (GE), and there is no release, "Utility Recommended Protective Actions" are NONE.
- C. If it is a GE, or there is a release involved, continue using the flowchart.
- D. Use the appropriate answer to each question until you reach one of the two boxes that provide PAR information based on plant conditions.
- E. If there is no release, skip to the TSC PAR worksheet and fill it out based on plant conditions PARs.
- F. If a release has occurred, get information about the release from the TSC Chemistry Supervisor or TSC HP Supervisor.
 1. Obtain the TEDE Dose (NOT dose rate) and the CDE Dose (NOT dose rate) forecasts for your use.
 2. Follow the directions below, PARs Based On Off-Site Dose, and compare the results to find the most conservative (extensive) PARs recommendations.

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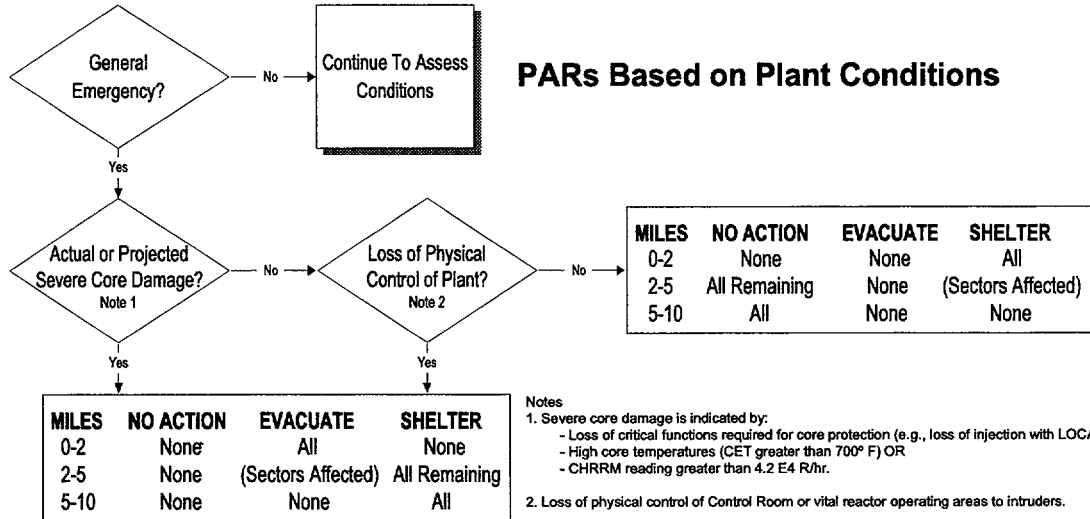
7. PARs Based On Off-Site Dose Calculations

CAUTION

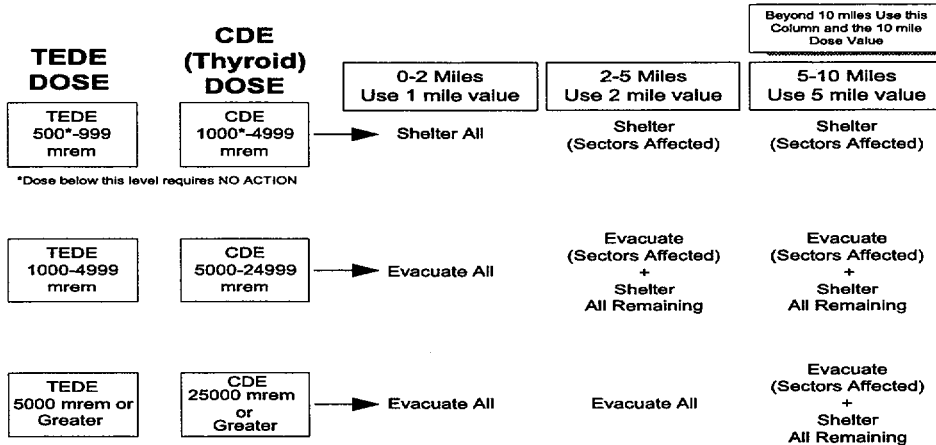
Evaluate each dose separately. Use the actual dose at each mile value and move right to the corresponding distance. The PAR is at the intersection. Do NOT use the 1 Mile Value (dose) to attempt finding PARs for 2-5, 5-10 or 10 mile distances.

- A.** Follow these steps to determine PARs Based on Dose:
1. PARs are based on the Total Dose (TEDE) and/or the Thyroid Dose (CDE) from the Dose Calculation Worksheet in EPIP-09, Off-Site Dose Calculations. This same information is available, when using the Class A Model dose program, on the 10 Mile Standard Report in the Forecast Mode.
 2. Using the information acquired in Step 1, start by finding the box, on the PARs flowchart, that corresponds with the projected TEDE dose at 1 mile.
 3. Move across right to the first column, which indicates the 0-2 Mile PAR for that dose.
 4. Write that PAR in the corresponding 0-2 Mile block on the TEDE DOSE table.
 5. Complete the process for both TEDE and CDE.

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PARs Based on Off-Site Dose



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			

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8. Selecting the Most Conservative PAR
 - A. Fill out the TSC PAR WORKSHEET below by evaluating the PARs from the PAR flowchart just completed.
 - B. Write the most conservative (extensive) in the section titled Protective Actions Recommended by FPL (using only the words NONE, ALL, ALL REMAINING or by listing the letters of the sectors affected).
 - C. Obtain approval and signature of the Emergency Coordinator.
 - D. The completed form should be used to transfer approved PARs to the Florida Nuclear Plant Emergency Notification Form.

9. ¶₅ Determining affected sectors for wind shift conditions.
 - A. PARs provide early warning to allow government officials to take actions to protect the public.
 - B. More than the usual three or four sectors should be listed when PARs have been made to State or County representatives and wind shift creates new sectors affected.
 1. Sheltering or evacuation recommendations should not be withdrawn, once made, except as part of approved recovery actions authorized by the Recovery Manager.
 2. If dose forecasts indicate new sectors affected, add them to the previously reported sectors on the PAR Worksheet and the Florida Nuclear Plant Emergency Notification Form.
 3. Severe wind shifts could occur, which skip over sectors. Severe weather fluctuations require evaluation and should be reported to the TSC HP Supervisor or TSC Chemistry Supervisor.
 - a. Do not include skipped sectors in PARs.
 - b. Notify TSC HP Supervisor or TSC Chemistry Supervisor.

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TSC PAR WORKSHEET

Time / Date _____ Emergency Class: SAE GE

A. PAR Comparison

After comparing the three possible recommendations from the PARs flowchart.

The most extensive PARs are based on: (circle one)

PLANT CONDITIONS TEDE DOSE THYROID DOSE - CDE

Were field monitoring results used for projection? _____ (yes / no)

¶₅ Sectors affected (include previously listed) _____

Signature _____
TSC EC Assistant / Logkeeper HP Supervisor or Chemistry Supervisor

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.

Approval: _____
Emergency Coordinator

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10. PARs Based on Field Monitoring Data ¶7

CAUTION

DO NOT mix doses based on dose calculations with doses based on field measurements when determining PARs.

- A.** PARs are based on Thyroid Dose Rate and/or the Total Dose Rate measured in the field. Field monitoring dose rates need to be multiplied times the expected duration of the release (default value is 2 hours) in order to determine projected doses.
1. Thyroid Dose (CDE) = Field measured thyroid dose rate x expected duration of release.
 2. Total Dose Rate (TEDE) = Field measured Deep Dose Equivalent (DDE) + (0.04 x Thyroid Dose (CDE)).
- B.** Field monitoring results from near site sample locations need to be adjusted/extrapolated to the 1 mile distance. Sample results between 1 to 2 miles need to be adjusted/extrapolated to the 2 mile distance and results between 2 to 5 miles adjusted/extrapolated to the 5 mile distance.
- C.** For each downwind distance, enter the PAR table at the appropriate dose level and determine the PAR for that distance.
- D.** When available, both plume calculations and off-site monitoring results should be evaluated when making PARs. If significant discrepancies exist between field monitoring results and plume dispersion calculations, Then an evaluation of the discrepancy should be made, and the appropriate value should be selected in the determination of PARs.
- E.** PARs have been developed based on guidance in NUREG/BR-150, Vol. 1 and EPA 400-R-92-001.

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11. Off-site Communication Protocol

CAUTION

- ¶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.
- ¶₁ 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.
- ¶₃ A new Florida Nuclear Plant Emergency Notification Form shall be completed for all updates.

NOTE

§ Time Limits for Notification of State and Local Agencies

Notifications shall be made as soon as practicable within 15 minutes of Emergency classification.

- A. Obtain the Emergency Coordinator Approval signature prior to any off-site communication.** _____
- B. Using the State HOT RING DOWN (HRD) Phone, dial 100.** _____
- C. 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 answers, announce "This is St. Lucie Nuclear Plant Technical Support Center with an emergency declaration. I am standing by to transmit Florida Nuclear Plant Emergency Notification Form information when you are ready to copy." Allow the State Warning Point to contact St. Lucie County, Martin County and the Bureau of Radiation Control prior to transmitting the information from the Florida Nuclear Plant Emergency Notification Form. When the parties are on line, provide the information slowly and deliberately with time for the duty officers to write the data.** _____

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11. (continued)

D. Alternate Communications if Hot Ring Down is not Available (If HRD is used, skip to section E, Follow-up Information Requests from State and Local Agencies). _____

1. Alternate 1 – Commercial Phone

NOTE

Use of the commercial telephone as an alternate notification method requires callback verification from the State Warning Point. Use of ESATCOM or Local Government Radio as an alternate notification method should include a callback verification number if available (e.g., cellular phone).

a. 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, TSC or EOF)] 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. _____

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11. 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 [as applicable (Unit 1, 2, TSC or EOF)] 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, TSC or EOF)] declaring 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. _____

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11. D. (continued)

3. Alternate 3 – Local Government Radio

NOTE

Use local government radio 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.

- 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, TSC or EOF)] 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, TSC or EOF)] declaring 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, TSC or EOF)], KNGR 874, over and out." _____

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11. (continued)

E. Emergency Follow-up Information Requests from State and Local Agencies

1. Incoming calls should come via the State Warning Point (SWP) over the HOT RING DOWN (HRD) phone. If the HRD is inoperable, the SWP may use commercial telephone or ESATCOM. If an off-site authority contacts the Plant without going through the SWP, request that they contact 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, refer him to the Nuclear Division Duty Officer (NDDO).

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INITIAL

11. (continued)

F. § NRC Notification

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.

1. The initial contact with the NRC will include use of the NRC Event Notification Worksheet (Attachment 3). The Duty Call Supervisor (DCS), or other personnel in the Control Room, may have performed this function. The Communicator will need to ensure that an initial NRC Event Notification Worksheet has been completed. If not yet done, request that the TSC EC Assistant / Logkeeper, or TSC OPS Coordinator, complete one prior to establishing the open line with the NRC. Once the open line is established the Communicator will log questions but not generate more NRC Event Notification Worksheets. _____

2. Notify the NRC via the Emergency Notification System (ENS) telephone 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)). The NRC Emergency Notification System (ENS) is the primary communications pathway to the NRC. ENS is part of the NRC FTS 2000 phone system. Initiate contact by dialing (direct, no access code needed) one of the phone numbers provided on the phone or in the ERD. This will become an open line of communication at the Alert or higher emergency class. _____

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11. (continued)

NOTE

When the EOF becomes operational the TSC no longer has responsibility for notifications but the Communicator, on the open line with the NRC, should remain on the line with the EOF taking the lead. The EOF will then log questions from the NRC.

G. When State, Local and NRC Notifications Are Required

1. If one unit is in a classified event and the same or the other unit enters into an event where the same or lesser emergency class would apply, a new classification should NOT be declared. The event should be reported as an update at the earliest practicable time.
2. If one unit is in a classified event and the other unit enters into a more severe event in which a higher emergency class applies, the new classification would be declared and promptly reported, within 15 minutes, to the State, counties and immediately afterward (within 60 minutes) to the NRC.

CAUTION

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

3. Additional Guidance on When to Make Notifications

Within 15 minutes:

- Initial Emergency Classification
- Reclassification
- Issue of PARs
- PAR change

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11. G. 3. (continued)

Within 60 minutes:

- Termination of the emergency
- Start of a release
- Termination of a release
- Significant change in plant conditions
- Loss or restoration of major plant equipment
- Loss or restoration of off-site or on-site power
- If notification has not been made within an hour, routine update should be made unless other frequency is agreed to by off-site agencies and FPL in advance.
- At the occurrence of any other significant event potentially affecting public safety:
 - Dose increase > several orders of magnitude
 - Release rate increase >25%
 - Wind speed decrease to less than half previous value
 - Atmospheric stability change > one class
 - Wind direction change >22.5° [more than one sector]
 - Other weather changes affecting release

END OF APPENDIX B

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- When the EOF becomes operational the Recovery Manager has responsibility for notifications and PARs. An EOF RM OPS Advisor should prepare the notification forms and the EOF Communicator makes calls to complete notifications.
- An EOF Communicator should receive documentation from the TSC of any notifications that were made from the Control Room and TSC. These documents can be received by FAX.
- An EOF Communicator will take the lead on the open line with the NRC. The TSC Communicator should remain on the line to provide information from sources available in the TSC.
- The EOF RM OPS Advisor should make a mental note of the time when the notification is due and ensure that it is done within 15 minutes of classification.
- Off-site Communication Content and Protocol
 1. When notifications are necessary, provide the state and local agencies with notification information by completing both the Florida Nuclear Plant Emergency Notification Form (form similar to Attachment 2) and, when time permits, the Supplemental Data Sheet (form similar to Attachment 2B).

NOTE

If, due to rapidly degrading conditions, Emergency Class escalation is known to be necessary, and the new notification might not be ready within the original fifteen-minute requirement, then provide the state and local agencies with the prepared notification by completing items 1-6 of the Florida Nuclear Plant Emergency Notification Form and telling them a new notification will follow within fifteen minutes.

2. It is not necessary to complete a Supplemental Data Sheet to make a notification.
3. A classification made by the EC can be skipped during notifications only if the new higher classification will be transmitted within 15 minutes of the declaration which is to be skipped.

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4. ¶₄ After the State Coordinating Officer arrives in the EOF, this individual can transfer "NET Control" to the EOF. When this occurs the Recovery Manager's briefings become the primary notification method for the State and Counties. The Florida Nuclear Plant Emergency Notification Form (including Supplemental Data Sheet) should still be completed and provided to the State Coordinating Officer or his / her designee in the EOF. Calls by FPL personnel over the Hot Ring Down telephone would no longer be made.

5. It should be clear from the "Reason For Emergency Declaration" which Emergency Action Level (EAL) required the emergency declaration. Wording should be non-technical with no acronyms or abbreviations (e.g., reactor coolant pump instead of RCP).

6. Determining "Downwind Sectors Affected"
 - A. Wind direction can be obtained from the EOF ERDADS Operator or directly from ERDADS by depressing the "EPIP" key on the top row of the keyboard. If ERDADS is unavailable, the information can be obtained from the TSC.

 - B. If the indication 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.), an additional (fourth) sector should be added.

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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 <u>no</u> "O" sector		There is <u>no</u> "I" sector	

7. PARs Based on Plant Conditions

NOTE

Initial notification from the Control Room may utilize PARs based on plant conditions. Once dose assessment begins, (PARs) should be made utilizing all of the available data including plant conditions, field monitoring data or off-site dose projections. **Both plant conditions AND off-site doses shall be considered for PARs.** The most conservative (extensive) 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.

- A. Beginning at the top left of the PAR flowchart below, answer the General Emergency question.
- B. If the emergency is not a General Emergency (GE), and there is no release, "Utility Recommended Protective Actions" are NONE.
- C. If it is a GE, or there is a release involved, continue using the flowchart.
- D. Use the appropriate answer to each question until you reach one of the two boxes that provide PAR information based on plant conditions.
- E. If there is no release, skip to the EOF PAR Worksheet and fill it out based on plant conditions PARs.

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7. (continued)

F. If a release has occurred, get the information about the release from the EOF HP Manager or Dose Assessor.

1. Obtain the TEDE Dose (NOT dose rate) and the CDE Dose (NOT dose rate) forecasts for your use.
2. Follow the directions below, PARs Based On Off-Site Dose, and compare the results to find the most conservative (extensive) PARs recommendations.

8. PARs Based On Off-Site Dose Calculations

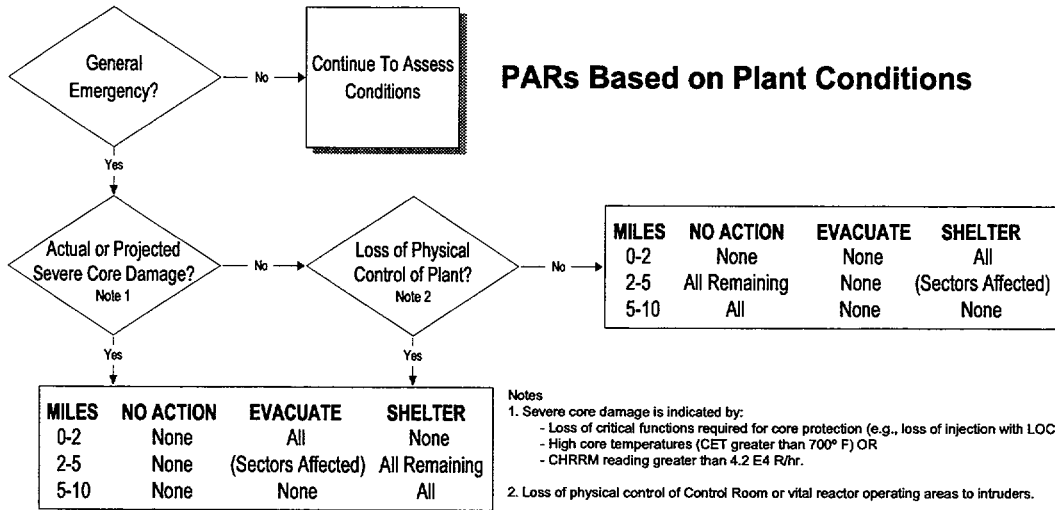
CAUTION

Evaluate each dose separately. Use the actual dose at each mile value and move right to the corresponding distance. The PAR is at the intersection. Do NOT use the 1 Mile Value (dose) to attempt finding PARs for 2-5, 5-10 or 10 mile distances.

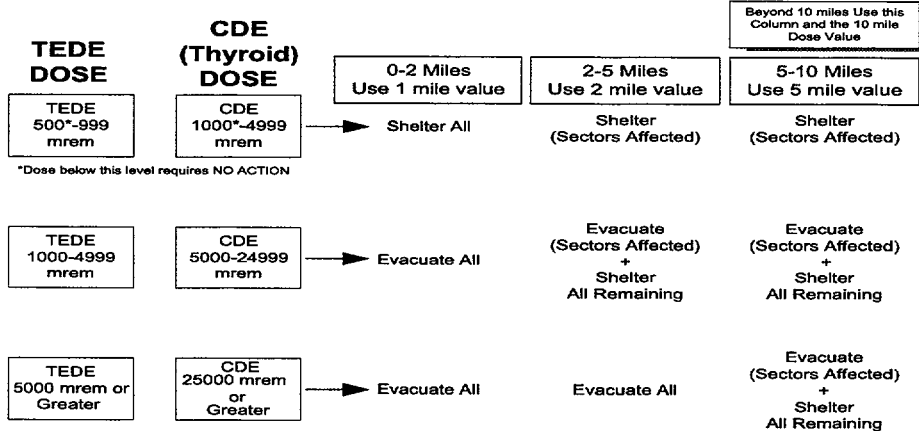
A. Follow these steps to determine PARs Based on Dose:

1. PARs are based on the Total Dose (TEDE) and/or the Thyroid Dose (CDE) from the Dose Calculation Worksheet in EPIP-09, Off-Site Dose Calculations. This same information is available, when using the Class A Model dose program, on the 10 Mile Standard Report in the Forecast Mode.
2. Using the information acquired in Step 1, start by finding the box, on the PARs flowchart, that corresponds with the projected TEDE dose at 1 mile.
3. Move across right to the first column, which indicates the 0-2 Mile PAR for that dose.
4. Write that PAR in the corresponding 0-2 Mile block on the TEDE DOSE table.
5. Complete the process for both TEDE and CDE.

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PARs Based on Off-Site Dose



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			

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9. Selecting the Most Conservative PAR
 - A. Fill out the EOF PAR WORKSHEET below by evaluating the PARs from the PAR flowchart just completed.
 - B. Write the most conservative (extensive) in the section titled Protective Actions Recommended by FPL (using only the words NONE, ALL, ALL REMAINING or by listing the letters of the sectors affected).
 - C. Obtain approval and signature of the Recovery Manager.
 - D. The completed form should be used to transfer approved PARs to the Florida Nuclear Plant Emergency Notification Form.

10. ¶₅ Determining affected sectors for wind shift conditions.
 - A. PARs provide early warning to allow government officials to take actions to protect the public.
 - B. More than the usual three or four sectors should be listed when PARs have been made to State or County representatives and wind shift creates new sectors affected.
 1. Sheltering or evacuation recommendations should not be withdrawn, once made, except as part of recovery actions coordinated with the State and counties.
 2. If dose forecasts indicate new sectors affected, add them to the previously reported sectors on the PAR Worksheet and the Florida Nuclear Plant Emergency Notification Form.
 3. Severe wind shifts could occur, which skip over sectors. Severe weather fluctuations require evaluation and should be reported to the EOF HP Manager, or Dose Assessor, if HP Manager is not yet in facility.
 - a. Do not include skipped sectors.
 - b. Notify the HP Manager or Dose Assessor.

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11. PARs Based on Field Monitoring Data

CAUTION

DO NOT mix doses based on dose calculations with doses based on field measurements when determining PARs.

- A.** PARs are based on Thyroid Dose Rate and/or the Total Dose Rate measured in the field. Field monitoring dose rates need to be multiplied times the expected duration of the release (default value is 2 hours) in order to determine projected doses.
1. Thyroid Dose (CDE) = Field measured thyroid dose rate x expected duration of release.
 2. Total Dose Rate (TEDE) = Field measured Deep Dose Equivalent (DDE) + (0.04 x Thyroid Dose (CDE)).
- B.** Field monitoring results from near site sample locations need to be adjusted/extrapolated to the 1 mile distance. Sample results between 1 to 2 miles need to be adjusted/extrapolated to the 2 mile distance and results between 2 to 5 miles adjusted/extrapolated to the 5 mile distance.
- C.** For each downwind distance, enter the PAR table at the appropriate dose level and determine the PAR for that distance.
- D.** When available, both plume calculations and off-site monitoring results should be evaluated when making PARs. If significant discrepancies exist between field monitoring results and plume dispersion calculations, Then an evaluation of the discrepancy should be made, and the appropriate value should be selected in the determination of PARs.
- E.** PARs have been developed based on guidance in NUREG/BR-150, Vol. 1 and EPA 400-R-92-001.

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12. Off-site Communication Protocol

CAUTION

- ¶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.
- ¶₁ 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.
- ¶₃ A new Florida Nuclear Plant Emergency Notification Form shall be completed for all updates.

NOTE

§ Time Limits for Notification of State and Local Agencies

Notifications shall be made as soon as practicable within 15 minutes of Emergency classification.

- A. Obtain the Recovery Manager Approval signature prior to any off-site communication.** _____
- B. ¶₄** If the State Coordinating Officer has transferred NET Control to the EOF, the RM shall do the communication face-to-face. The Florida Nuclear Plant Emergency Notification Form (form similar to Attachment 2) and the Supplemental Data Sheet (form similar to Attachment 2A) should still be completed and provided to the State Coordinating Officer or his / her designee in the EOF. Calls by FPL personnel over Hot Ring telephone should no longer be made. _____
- C.** If NET Control has not been transferred to the EOF, then, using the State HOT RING DOWN (HRD) phone, dial 100. _____

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12. (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 answers, announce "This is St. Lucie Nuclear Plant Emergency Operations Facility with an emergency declaration. I am standing by to transmit Florida Nuclear Plant Emergency Notification Form information when you are ready to copy." Allow the State Warning Point to contact St. Lucie County, Martin County and the Bureau of Radiation Control prior to transmitting the information from the Florida Nuclear Plant Emergency Notification Form. When the parties are on line, provide the information slowly and deliberately with time for the duty officers to write the data.

E. Alternate Communications if Hot Ring Down is not Available (If HRD is used or NET Control has been transferred to the EOF, skip to section F, NRC Notification).

1. Alternate 1 – Commercial Phone

NOTE

Use of the commercial telephone as an alternate notification method requires callback verification from the State Warning Point. Use of ESATCOM or Local Government Radio as an alternate notification method should include a callback verification number if available (e.g., cellular phone).

a. 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, TSC or EOF)] with an emergency declaration. My callback number is _____."

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12. E. 1. (continued)

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. _____

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, TSC or EOF)] 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, TSC or EOF)] declaring 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. _____

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12. E. (continued)

3. Alternate 3 – Local Government Radio

NOTE

Use local government radio 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.

- 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, TSC or EOF)] 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, TSC or EOF)] declaring 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, TSC or EOF)], KNGR 874, over and out." _____

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12. (continued)

F. § NRC Notification

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.

1. The initial contact with the NRC will include use of the NRC Event Notification Worksheet (Attachment 3). Control Room or TSC personnel may have performed this function. The Communicator will need to ensure that an initial NRC Event Notification Worksheet has been completed. The EOF Communicator should request documentation of any notification(s), state or NRC, made prior to this point if they have not yet been received. If NRC notification has not been made, the EOF RM OPS Advisor shall complete a Worksheet, prior to establishing the open line with the NRC. Once the open line is established the Communicator will log questions but not generate more Worksheets.

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12. F. (continued)

2. Notify the NRC via the Emergency Notification System (ENS) telephone 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)). The NRC Emergency Notification System (ENS) is the primary communications pathway to the NRC. ENS is part of the NRC FTS 2000 phone system. Initiate contact by dialing (direct, no access code needed) one of the phone numbers provided on the phone or in the ERD. This becomes an open line of communication at the Alert or higher emergency class. The TSC is likely to have already established this open line. The EOF Communicator should call the NRC and request to be put on the conference bridge with the NRC and St. Lucie Technical Support Center. The EOF should take the lead and log questions from the NRC.

NOTE

When the EOF is operational the TSC no longer has responsibility for notifications but the TSC Communicator, on the open line with the NRC, will remain on the line.

G. When State, Local and NRC Notifications Are Required

1. If one unit is in a classified event and the same or the other unit enters into an event where the same or lesser emergency class would apply, a new classification should NOT be declared. The event should be reported as an update at the earliest practicable time.

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12. G. (continued)

2. If one unit is in a classified event and the other unit enters into a more severe event in which a higher emergency class applies, the new classification would be declared and promptly reported, within 15 minutes, to the State, counties and immediately afterward (within 60 minutes) to the NRC.

CAUTION

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

3. Additional Guidance on When to Make Notifications

Within 15 minutes:

- Initial Emergency Classification
- Reclassification
- Issue of PARs
- PAR change

Within 60 minutes:

- Termination of the emergency
- Start of a release
- Termination of a release
- Significant change in plant conditions
- Loss or restoration of major plant equipment
- Loss or restoration of off-site or on-site power
- If notification has not been made within an hour, routine update should be made unless other frequency is agreed to by off-site agencies and FPL in advance.

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12. G. 3. (continued)

- At the occurrence of any other significant event potentially affecting public safety:

Dose increase > several orders of magnitude

Release rate increase >25%

Wind speed decrease to less than half previous value

Atmospheric stability change > one class

Wind direction change >22.5° [more than one sector]

Other weather changes affecting release

END OF APPENDIX C

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ATTACHMENT 1
PRIMARY EMERGENCY COMMUNICATIONS SYSTEMS
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1. COMMUNICATIONS SYSTEMS

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

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

B. NRC Emergency Notification System (ENS)

1. **This is the primary communications pathway to the NRC.**
2. Part of the NRC FTS 2000 phone system. Initiate contact by dialing (direct, no access code needed) one of the phone numbers provided on the phone or in the ERD. This will become an open line of communication at the Alert or higher emergency class. The EOF will join the conference bridge if it becomes operational.

C. Direct-line Telephone

1. **This is a direct line between the TSC and the EOF.** Initiate contact by removing the handset from the cradle, which will cause the phone to ring in the other facility. When the phone is answered you can begin transmission.

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1. (continued)
 - D. Sound-powered Phone
 1. **This is a link between the Control Room and the TSC.** These phone (headsets) are powered by sound.
 2. In the TSC the Unit 1 phone jack is located near the Dose Assessment Status Board; the Unit 2 phone jack is located next to the Chronology Status Board in the rear of the room.
 3. Once the headsets have been connected in both the affected Control Room and the TSC, transmission can begin by speaking into the mouthpiece.
 - E. Commercial Telephone
 1. **This is the first alternate communications pathway to the State Warning Point, St. Lucie County, Martin County, the Bureau of Radiation Control and the NRC.**
 2. Dial 9 for a Fort Pierce exchange; dial 8-1-Area Code for all other numbers. An authorization code is needed for long distance calls.
 - F. Emergency Satellite Communications System (ESATCOM)
 1. **This is a second alternate communications pathway to the State Warning Point, St. Lucie County, Martin County and the Bureau of Radiation Control.**
 2. To initiate transmission, lift the handset and depress the "push-to-talk" bar in the handset. Wait 3-5 seconds to hear a beep before starting to talk. The red light on the phone is a power indicator, when lit, power is available.

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1. (continued)

G. 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, St. Lucie County, Martin County and the Bureau of Radiation Control.**
2. The LGR serves as a backup communications system to the counties and indirectly to State agencies. A table radio, Motorola Command Series, provides two channels, the primary F2 (39.180 MHz, State Channel 1) and the secondary F1 (39.100 MHz, State Channel 2). Channel selection can be made by depressing the "F1 / F2" button (the radio is set to monitor F2). The radio can be operated either by depressing the "transmit" button on the console or by removing the handset and depressing the "push-to-talk" bar in the handset. The "xmit" light is lit during transmission. (Preference should be given to using the handset).

H. Satellite Telephone

1. Instructions for use of the satellite telephone are provided in the phone's briefcase.
2. The phone is stored in a supply cabinet in the TSC.

END OF ATTACHMENT 1

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¶₆ ATTACHMENT 2B
DIRECTIONS FOR COMPLETING THE FLORIDA NUCLEAR PLANT EMERGENCY
NOTIFICATION FORM

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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 Risk County. 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.)

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DIRECTIONS FOR COMPLETING THE FLORIDA NUCLEAR PLANT EMERGENCY
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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

- A. Check the appropriate box. Check box for "Yes" only if injuries occurred that involve off-site support (EMS, hospital). Check "Unknown" if the extent of the injuries are 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 injuries have prevented thorough monitoring on-site or if there is any doubt whether contamination is present.

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.

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ATTACHMENT 2B
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9. Weather Data

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

NOTE

The wind direction can be obtained from ERDADS by depressing the "EPIP" key, on the top row of the keyboard, or by checking the Met Tower Indicator Panel on Unit 1. If the indication is greater than 360° the wind direction would be determined by subtracting 360° from the indicated number. Wind direction can be rounded to the nearest whole number.

B. 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 <u>no</u> "O" sector		There is <u>no</u> "I" sector	

10. Release Status

A. If there are no indications of a radioactive release, check box "A" and go to item 12.

A release (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 is occurring, even though it may be less than normal operating limits, check box "B."

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10. (continued)

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.

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 $\leq 3.5 \text{ E}+5 \text{ uci/sec}$ ($3.5 \text{ E}-1 \text{ ci/sec}$)

Iodine release $\leq 4.6 \text{ E}+1 \text{ uci/sec}$ ($4.6 \text{ E}-5 \text{ ci/sec}$)

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.

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ATTACHMENT 2B
DIRECTIONS FOR COMPLETING THE FLORIDA NUCLEAR PLANT EMERGENCY
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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." PARs shall be included if the emergency is a GE or dose assessment outcome, in the event of a release, requires PARs. Obtain the completed results from dose assessment, if done, or else determine appropriate PARs using the guidance in your facility's appendix in 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).

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?

- A. Check box "A" unless a Supplemental Form has been completed for this particular message.
- B. Check box "B" if a Supplemental Form 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.

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ATTACHMENT 2B
DIRECTIONS FOR COMPLETING THE FLORIDA NUCLEAR PLANT EMERGENCY
NOTIFICATION FORM

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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.

NOTE

When making notifications ensure that you complete the checklist, in this procedure, found in Section 5.0 INSTRUCTIONS.

END OF ATTACHMENT 2B

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ATTACHMENT 2C
DIRECTIONS FOR COMPLETING THE SUPPLEMENTAL DATA SHEET
(Page 1 of 3)

“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 or signing this line. This is unnecessary if the same person will complete the next section and print or sign that section. **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 line.

Radiological Dose Assessment Data (To Be Obtained from Dose Assessment Personnel)

1. **Release Status**

- A. If there are no indications of a radioactive release, check box “A.”
- B. If a release 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.”

A release (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.

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ATTACHMENT 2C
DIRECTIONS FOR COMPLETING THE SUPPLEMENTAL DATA SHEET
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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.
5. Weather Data
- A. Wind Direction From – Enter the wind direction used by Dose Assessor.

NOTE

The wind direction can be obtained from ERDADS by depressing the "EPIP" key, on the top row of the keyboard, or by checking the Met Tower Indicator Panel on Unit 1. If the indication is greater than 360° the wind direction would be determined by subtracting 360° from the indicated number. Wind direction can be rounded to the nearest whole number.

- B. Wind Speed – Enter the wind direction used by Dose Assessor. The wind speed can be read from ERDADS (or the MET Tower Indicator Panel on Unit 1).
- C. Stability Class – Enter the stability class determined by Dose Assessor. Figure below shows the Delta-T (60 meter temperature minus 10 meter temperature) used to find stability class.

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ATTACHMENT 2C
DIRECTIONS FOR COMPLETING THE SUPPLEMENTAL DATA SHEET
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5. (continued)

Delta - T	Stability Class
Is less than or equal to -1.7	A
-1.69 To -1.5	B
-1.49 To -1.4	C
-1.39 To -0.5	D
-0.49 To +1.4	E
+1.39 To +3.6	F
Is greater than +3.6	G

Completing the Supplemental Data Sheet

Completed By: The person completing the form should print their name or sign 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. Both the "Completed by" and 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 2C

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ATTACHMENT 3
NRC EVENT NOTIFICATION WORKSHEET
(Page 1 of 2)

Contact's Name: _____

NRC Contact's Name: _____

EVENT NOTIFICATION WORKSHEET			
Notification Time	Facility or Organization FPL - St. Lucie Plant	Unit	Caller's Name
			Callback #: ENS _____ or (561) _____ - _____
Event Time & Zone	Event Date	1 Hr. Non-Emergency 10 CFR 50.72 (b)(1)	(v) Lost Off-site Comms
		(i)(A) TS Required S/D	(vi) Fire
Power/Mode Before	Power/Mode After	(i)(B) TS Deviation	(vi) Toxic Gas
		(ii) Degraded Condition	(vi) Rad Release
		(ii)(A) Unanalyzed Condition	(vi) Other Hampering Safe Op.
EVENT CLASSIFICATIONS		(ii)(B) Outside Design Basis	4-hr. Non-Emergency 10 CFR 50.72(b)(2)
		(ii)(C) Not Covered by OPs/EPs	
General Emergency		(iii) Earthquake	(i) Degrade While S/D
Site Area Emergency		(iii) Flood	(ii) RPS Actuation (scram)
Alert		(iii) Hurricane	(ii) ESF Actuation
Unusual Event		(iii) Ice/Hail	(iii)(A) Safe S/D Capability
50.72 Non-Emergency		(iii) Lightning	(iii)(B) RHR Capability
Physical Security (73.71)		(iii) Tornado	(iii)(C) Control of Rad Release
Transportation		(iii) Other Natural Phenomenon	(iii)(D) Accident Mitigation
20.403 Material/Exposure		(iv) ECCS Discharge to RCS	(iv)(A) Air Release > 2X App B
Other		(v) Lost ENS	(iv)(B) Liq Release > 2X App B
		(v) Lost Emerg. Assessment	(v) Off-site Medical
			(vi) Off-site Notification

DESCRIPTION

Include: Systems affected, actuations & their initiating signals, causes, effect of event on plant, actions taken or planned, etc.

Notifications NRC Resident	Yes	No	Will Be	Anything unusual or not understood?	Yes (Explain above)	No
State(s)				Did all systems function as required?	Yes	No (Explain above)
Local						
Other gov agencies				Mode of operation until corrected	Estimate for restart date:	Additional info on back?
Media press release						

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ATTACHMENT 3
NRC EVENT NOTIFICATION WORKSHEET
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ADDITIONAL INFORMATION

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 µCi/sec			0.01 Ci
Particulate			1 µCi/sec			1 mCi
Liquid (excluding tritium and dissolved noble gases)			10 µCi/min			0.1 Ci
Liquid (tritium)			0.2 Ci/min			5 Ci
Total Activity						

	Plant Stack	Condenser/Air Ejector	Main Steam Line	SG Blowdown	Other
RAD monitor readings:					
Alarm setpoints:					
% T.S. Limit (if applicable)					

RCS or SG tube leaks: Check or fill in applicable items: (specific details/explanations should be covered in event description)

Location of the leak (e.g., SG #, valve, pipe, etc.):

Leak Rate	Units: gpm/gpd	T.S. Limits:	Sudden or Long Term Development:
Leak Start Date:	Time:	Coolant Activity & Units: Primary -	Secondary -

List of Safety Related Equipment Not Operational:

EVENT DESCRIPTION (continued from front)

E.C. Approval: _____ Time: _____ Date: ____/____/____

END OF ATTACHMENT 3

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¶7 ATTACHMENT 3A
GUIDELINE FOR COMPLETING THE NRC 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.** Event Notification Worksheet, Page 1
1. Notification Time - enter the time contact is made.
 2. Unit - enter the appropriate unit number: Enter "0" for a classification common to both units.
 3. Callers Name - enter the name of the person making the call.
 4. 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 Eastern Standard Time or "EDT" for Eastern Daylight-savings Time.
 6. Event Date - enter the date the event is occurring.
 7. Power / Mode Before & Power / Mode After - enter the power in percent and the mode number (1-6) before and after the event.
 8. Event Classifications - check on of the four blocks for General Emergency, Site Area Emergency, Alert, or Notification of Unusual Event.

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¶7 ATTACHMENT 3A
GUIDELINE FOR COMPLETING THE NRC EVENT NOTIFICATION WORKSHEET
(Page 2 of 2)

B. (continued)

NOTE
No other blocks in the upper half of the form are required.

9. Description - provide a written description of the event.

NOTE
Check the blocks in the lower portion of the form based on current conditions.

10. Mode of operation until corrected - provided if known.

11. Estimate for restart date - enter "unknown".

12. Additional info on Page 2 - enter yes or no.

C. Event Notification Worksheet, Page 2

1. Fill in as much of the information on the 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.

END OF ATTACHMENT 3A