FPL

MAR 1 2 2001

L-2001-062
10 CFR 50.54(q)
10 CFR 50 Appendix E

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

Re: Turkey Point Units 3 and 4
Docket Nos. 50-250 and 50-251
Emergency Plan Implementing Procedure Changes

The following Emergency Plan Implementing Procedures have been revised:

0-EPIP-20133, Operations Support Center (OSC) Activation and Operation
Implementation date: February 16, 2001
0-EPIP-20129, Emergency Response Team - Radiological Monitoring
Implementation date: February 22, 2001
0-EPIP-1212, Emergency Operation Facility (EOF) Activation and Operation
Implementation date: March 1, 2001

Pursuant to the requirements of 10 CFR 50.54(q) and 10 CFR 50 Appendix E, one copy of each of the revised procedures is enclosed. A summary of changes to each procedure is attached. FPL has determined that the changes described do not result in a decrease in the effectiveness of the Emergency Plan.

Very truly yours,

R. J. Hovey
Vice President
Turkey Point Plant

CLM

Attachment, enclosures

cc: Regional Administrator, Region II, USNRC (2 copies)
Senior Resident Inspector, USNRC, Turkey Point Plant (w/o enclosure)

A045

SUMMMARY OF CHANGES

Changes to 0-EPIP-20133

1. Move all OSC responder required activities from section 5 to their respective sign-off attachments.
2. Add guidance to section 5 for responders to obtain their sign-off attachment.
3. Delete the OSC Plant Status Board position, and add those individuals to Status Board Keeper position.
4. Delete the OSC Team Status Board position, and add those individuals to Status Board Keeper position.
5. Add sign-off section for each OSC responder: Attachments 5 thru 24.
6. Change OSC Layout.

Changes 1, 2, and 5 are format only. Each sign-off attachment will help ensure that each responder's required activities are complete and documented. Changes 3 and 4 combine both of the OSC Status Board Keepers into one position. Although the two positions are now incorporated into one, the utilization of new computers and projector will enable one person to accomplish both tasks. With Change 6, the OSC has now become a dedicated facility. There have been enhancements made to the facility such as Briefing and De-Briefing rooms, new furniture, new phones, computers, and projectors. The OSC facility is permanently set up and in ready status. Since the facility is now dedicated, there is no longer a need to set up the facility during activation.

Changes to 0-EPIP-20129

1. Add new instructions for the Offsite Field Monitoring Teams to obtain vehicles (keys) for Offsite Field Monitoring.

2. Enhance communication between the offsite team and the TSC Offsite Team Leader. Multifunctional radios are installed in all the Emergency Response Vehicles and should be the primary method for communication with the site. In addition, handheld radios have been placed in the Offsite Health Physics Equipment Locker as a backup method for communicating.

Changes to 0-EPIP-1212

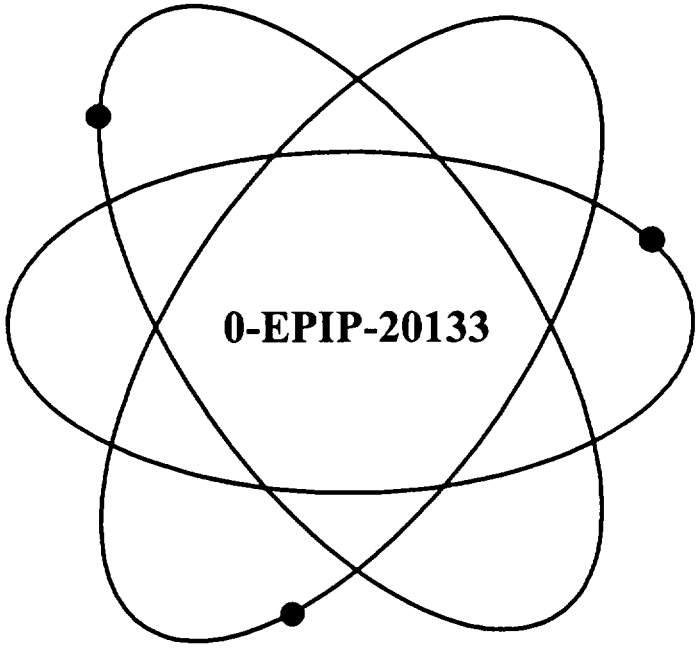
1. Move all EOF responders required activities from the body of the procedure to an attachment. Add guidance to each EOF responder's responsibilities in the body of the procedure to refer them to their respective sign-off attachments..

2. Add a sign-off section (Attachment 8-28) for each responder to assist them during activation and operation of the EOF. Each sign-off attachment will help ensure that each responder's required activities are complete and documented.

3. Exchange old NRC Notification Worksheet with new NRC Reactor Plant Event Notification Worksheet (Attachment 2).

Florida Power & Light Company

Turkey Point Nuclear Plant



Title:

Operations Support Center (OSC) Activation and Operation

Safety Related Procedure	
Responsible Department:	Emergency Preparedness
Revision Approval Date:	2/15/01
Periodic Review Due:	9/28/04

***RTSs** 97-0329P, 99-0258P, 00-0201, 00-0465P*

W97:KP/ev/ev/ev

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1.0 PURPOSE

1.1 This procedure provides guidance for the activation and operation of the Operations Support Center (OSC).

2.0 REFERENCES/RECORDS REQUIRED/COMMITMENT DOCUMENTS

2.1 References

2.1.1 Emergency Plan Implementing Procedures

1. 0-EPIP-20101, Duties of Emergency Coordinator
2. 0-EPIP-20104, Emergency Response Organization Notifications/Staff Augmentation
3. 0-EPIP-20111, Re-Entry
4. 0-EPIP-20129, Emergency Response Team - Radiological Monitoring
5. 0-EPIP-20132, Technical Support Center (TSC) Activation and Operation

2.1.2 Miscellaneous Documents

1. Turkey Point Plant Radiological Emergency Plan
2. Security Force Instruction 6307, Emergency Evacuation and Accountability

2.2 Records Required

2.2.1 Completed copies of the below listed item(s) constitute Quality Assurance Records and shall be transmitted to QA Records for retention in accordance with Quality Assurance Records Program requirements.

1. None

2.2.2 Upon deactivation of the OSC, the following completed documents shall be transmitted to the Emergency Preparedness Coordinator who shall review and retain for archival purposes:

1. The OSC Manager and Supervisors/Coordinators in the OSC shall each maintain a logbook of activities performed during a plant emergency.
2. Form similar to Attachment 1
3. Form similar to Attachment 2
4. All OSC Position Check-off Sheets (Attachments 5 through 23)

2.2.3 The briefing of all OSC Emergency Response Teams required to be dispatched or re-directed to perform tasks shall be documented by the completion of a form similar to Attachment 1, Team Briefing/Debriefing Form, of 0-EPIP-20111, Re-Entry.

3.0 RESPONSIBILITIES

3.1 The OSC Security Officer is responsible for:

3.1.1 Establishing an access/egress point at the door of the OSC.

3.1.2 Maintaining accountability of the OSC

3.1.3 Providing the TSC with a list of personnel in the OSC within 30 minutes of a site evacuation.

3.2 The OSC Manager is responsible for:

3.2.1 Ensuring accountability and minimum staffing of applicable personnel in the OSC.

3.2.2 Maintaining control and directing OSC activation, operation, and deactivation.

3.2.3 Coordinating and directing OSC activation, operation, and deactivation.

3.2.4 Directing implementation of Enclosure 1 if radiological hazards exist in the facility.

3.2.5 Ensuring that briefings are conducted to update personnel in the OSC on the status of the emergency.

3.2.6 Coordinating emergency worker exposures with the TSC as required.

3.2.7 Ensuring a log of activities is maintained.

3.2.8 Approving the formation of OSC Emergency Response Teams.

3.3 The OSC Supervisor is responsible for:

3.3.1 Maintaining accountability within the OSC.

3.3.2 Coordinating and verifying facility operational readiness.

3.3.3 Ensuring timely and accurate updates of the OSC status boards.

3.3.4 Ensuring communication links are established and updates are made to the TSC.

3.3.5 Assisting the OSC Manager in monitoring the phone tie to the TSC.

3.3.6 Ensuring personnel are provided with assistance in obtaining documents and prints.

3.3.7 Ensuring materials management personnel are assisting teams with obtaining necessary parts and materials.

3.3.8 Coordinating and directing shift turnover of the OSC.

3.3.9 Ensuring dispatch of the Assembly Area Supervisor.

3.3.10 Ensuring a log of activities is maintained.

3.3.11 Initiating the TSC requests for the formation of OSC Emergency Response Teams.

3.4 The OSC Re-Entry Coordinator is responsible for:

3.4.1 Directing formation, dispatching, and maintaining accountability of OSC Emergency Response Teams.

3.4.2 Ensuring teams are tracked in the field and on the team tracking board.

3.4.3 Ensuring teams are debriefed and information is made available to the OSC Manager.

3.4.4 Acting as the liaison in the OSC for the TSC Technical Support Group.

3.4.5 Implementing 0-EPIP-20111, Re-Entry.

3.4.6 Ensuring the OSC Manager is aware of all Emergency Response Team activities.

3.4.7 Maintaining a log of activities.

3.5 The OSC Operations Supervisor is responsible for:

3.5.1 Ensuring accountability and minimum staffing of applicable personnel in the OSC.

3.5.2 Implementing 0-EPIP-20111, Re-Entry.

3.5.3 Ensuring the OSC Manager is aware of all Emergency Response Team activities.

3.5.4 Providing emergency status updates to personnel in the field.

3.5.5 Providing briefings to teams if being redirected in the field.

3.5.6 Maintaining the Plant Data Status Board.

3.5.7 Maintaining a log of activities.

3.5.8 Requesting assistance from any available Senior Reactor Operator (SRO).

3.6 The OSC Health Physics Supervisor is responsible for:

3.6.1 Ensuring accountability and minimum staffing of Health Physics personnel in the OSC.

3.6.2 Coordinating Health Physics coverage with the discipline Supervisors/Coordinators in the OSC for Emergency Response Teams and field personnel.

3.6.3 Coordinating radiological monitoring (surveys and dosimetry) based on plant radiological conditions as directed by the TSC Health Physics Supervisor.

3.6.4 Ensuring dosimetry is distributed and the required paperwork is completed for OSC personnel and Emergency Response Teams.

3.6.5 If radiological conditions warrant (e.g., release in progress, Control Room Radiation Monitor Alarm) and sufficient OSC HP personnel are available, ensuring that coverage is provided to the Control Rooms for contamination control and exposure monitoring.

3.6.6 Dispatching off-site Emergency Response Teams for radiological monitoring in accordance with 0-EPIP-20129, Emergency Response Team – Radiological Monitoring.

3.6.7 Implementing 0-EPIP-20111, Re-Entry.

3.6.8 Ensuring the OSC Manager is aware of all ERT activities.

3.6.9 Conducting habitability surveys.

3.6.10 Coordinating emergency exposures with the OSC Manager, TSC Health Physics Supervisor, and the Emergency Coordinator.

3.6.11 Providing emergency status updates to personnel in the field.

3.6.12 Ensuring that personnel are aware of the release status and impact on the field teams. Evaluation of release on the teams should be performed.

3.6.13 Ensuring the HP communicator is interacting with the TSC.

3.6.14 Providing briefings to teams if being redirected in the field.

3.6.15 Maintaining a log of activities.

3.7 The OSC Chemistry Supervisor is responsible for:

3.7.1 Ensuring accountability and minimum staffing of applicable personnel in the OSC.

3.7.2 Implementing 0-EPIP-20111, Re-Entry.

3.7.3 Ensuring the OSC Manager is aware of all Emergency Response Team activities.

3.7.4 Ensuring medical assistance is available.

3.7.5 Providing emergency status updates to personnel in the field.

3.7.6 Providing briefings to teams if being redirected in the field.

3.7.7 Maintaining a log of activities.

3.8 The OSC Mechanical Coordinator is responsible for:

3.8.1 Ensuring accountability and minimum staffing of applicable personnel in the OSC.

3.8.2 Implementing 0-EPIP-20111, Re-Entry.

3.8.3 Ensuring the OSC Manager and Re-Entry Coordinator are aware of all Emergency Response Team activities.

3.8.4 Providing emergency status updates to personnel in the field.

3.8.5 Providing briefings to teams if being redirected in the field.

3.8.6 Maintaining a log of daily activities.

3.9 The OSC Electrical Coordinator is responsible for:

3.9.1 Ensuring accountability and minimum staffing of applicable personnel in the OSC.

3.9.2 Implementing 0-EPIP-20111, Re-Entry.

3.9.3 Ensuring the OSC Manager and OSC Re-Entry Coordinator are aware of all Emergency Response Team activities.

3.9.4 Providing emergency status updates to personnel in the field.

3.9.5 Providing briefings to teams if being redirected in the field.

3.9.6 Maintaining a log of activities.

3.10 The OSC I&C Coordinator is responsible for:

3.10.1 Ensuring accountability and minimum staffing of applicable personnel in the OSC.

3.10.2 Implementing 0-EPIP-20111, Re-Entry.

3.10.3 Ensuring the OSC Manager and OSC Re-Entry Coordinator are aware of all Emergency Response Team activities.

3.10.4 Providing emergency status updates to personnel in the field.

3.10.5 Providing briefings to teams if being redirected in the field.

3.10.6 Maintaining a log of activities.

3.11 Emergency Response Team Members are responsible for:

3.11.1 Bringing radios to the OSC.

3.11.2 Performing tasks as requested by their supervisor/coordinator.

3.11.3 Maintaining communications with the OSC.

4.0 DEFINITIONS

4.1 Radiological Hazard - Any radiation monitors 100 mrem/hr over normal readings or airborne radioactivity at DAC levels.

4.2 Emergency Response Team - A team of selected, qualified individuals comprised of Health Physics Radiation Protection Technologists, Chemistry Technicians, Journeymen from Mechanical, I&C, and Electrical Maintenance, Contract Medical Response Personnel, and Plant Operators utilized to respond to an emergency situation and conduct re-entry, mitigation, and radiological monitoring activities, also known as Re-Entry Team, or Field Monitoring Team.

4.3 Essential Personnel - Personnel assigned to fill positions in the Turkey Point Emergency Response Organization as listed in the Emergency Response Directory.

4.4 Non-Essential Personnel - Personnel not preassigned specific emergency response duties.

5.0 PROCEDURE

NOTES

- *The OSC is a staging area for emergency response team personnel involved in re-entry and field monitoring activities.*
- *The OSC is normally located on the second floor, west end of the Nuclear Maintenance Building. If radiological conditions make this area uninhabitable, the OSC may be relocated to another area. One such area is the second floor of the TSC Building. For severe weather disturbances, the Cable Spreading Room may be utilized as an alternate OSC location.*
- *Personnel may use the restroom facilities next to the OSC for a dress-out area.*
- *Enclosure 1 provides instructions for minimizing potential radiological hazards, but does not isolate the facility. Alternate facility locations should be considered if hazardous conditions persist.*
- *The OSC is a designated non-smoking facility. Eating and drinking shall be controlled and limited by the OSC Manager. Eating and drinking is prohibited whenever habitability surveys reveal any surface or airborne contamination activity.*
- *When disposing of silver zeolite cartridges, they are characterized as a characteristic hazardous waste (D0110), and if contaminated by radioactive by-product material, are characterized as a mixed waste.*
- *Whenever possible and as conditions warrant, security cameras located around the plant may be used to investigate problems during an emergency. Requests should be made through the TSC Security Supervisor.*
- *An instant camera is provided in the OSC supply cabinet. The camera may be utilized by teams investigating problems.*
- *If additional equipment or supplies are needed, the OSC Health Physics Supervisor should evaluate the radiological conditions before personnel are dispatched to obtain the needed materials.*
- *Additional radios may be obtained from plant departments for re-entry and field monitoring use, as required.*
- *Two fax machines are available in the OSC. The OSC Operations fax machine will be used primarily for communications with the TSC. The OSC Chemistry fax machine will be used primarily for communications with the Health Physics and/or Chemistry count rooms.*

  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 OSC.

NOTE

To ensure all position responsibilities are completed, appropriate ERO staff shall complete applicable Check-Off attachments.

5.1 Activation of the OSC

5.1.1 When notified, OSC emergency responders are to report to the facility as quickly as possible.

5.1.2 The first responders to the OSC should do the following:

NOTE

Normally, Security will have the OSC door unlocked prior to responders arriving in order to expedite the activation process. If the door is locked upon arrival, any emergency responder may unlock the OSC by using the key in the break glass box located outside the OSC.

1. Acquire a copy of Attachment 5, OSC First Responder Check-Off Sheet from the Document Control File to ensure all required activities are completed.

2. Ensure all steps in Attachment 5, OSC First Responder Check-Off Sheet have been completed and initialed. Forward the completed Attachment 5 to the Emergency Preparedness Coordinator upon conclusion of the event.

5.1.3 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 OSC.

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

5.2 The following OSC positions shall acquire a copy of their associated Check-Off attachment and ensure all steps are completed (document exceptions on form), all attachments are signed and dated and all completed attachments are forwarded to the Emergency Preparedness Coordinator at the conclusion of the event:

NOTE

OSC personnel can acquire associated attachments from the Document Control File.

OSC POSITION	ATTACHMENT NO.
OSC FIRST RESPONDER	5
OSC MANAGER	6
OSC SUPERVISOR	7
OSC RE-ENTRY COORDINATOR	8
OSC OPERATIONS SUPERVISOR	9
OSC HEALTH PHYSICS SUPERVISOR	10
OSC CHEMISTRY SUPERVISOR	11
OSC MECHANICAL COORDINATOR	12
OSC ELECTRICAL COORDINATOR	13
OSC I&C COORDINATOR	14
OSC EMERGENCY RESPONSE TEAM MEMBERS	15
CONTRACT MEDICAL PERSONNEL	16
OSC DOSE RECORDERS	17
OSC MATERIALS MANAGEMENT PERSONNEL	18
OSC RECORDER	19
OSC HP COMMUNICATOR	20
OSC STATUS BOARD KEEPER	21
OSC DOCUMENT CONTROL PERSONNEL	22
OSC SECURITY OFFICER	23

END OF TEXT

FIGURE 1
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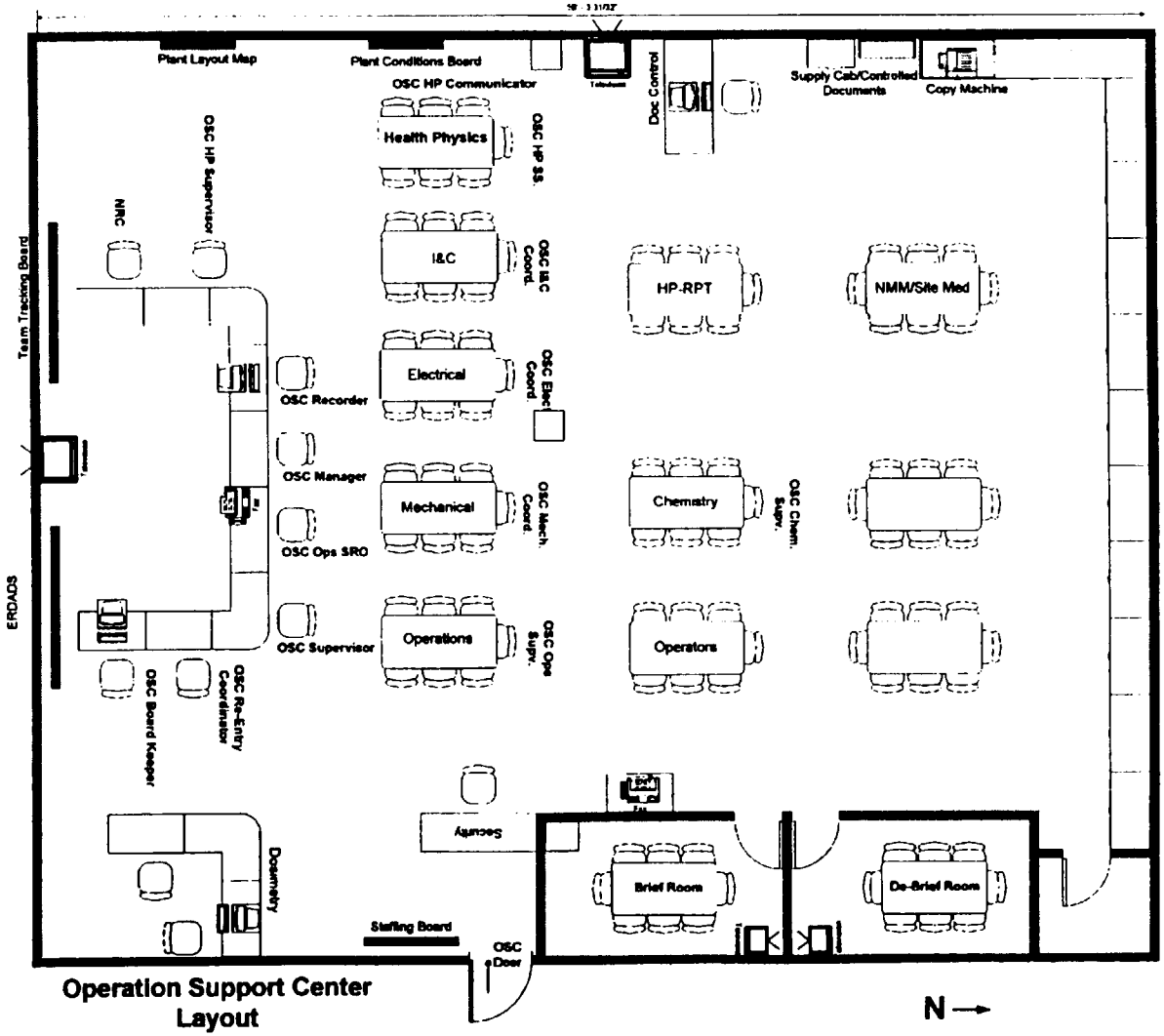
TYPICAL OSC LAYOUT



ENCLOSURE 1
(Page 1 of 1)

SECURING OSC VENTILATION

NOTES

- *Auxiliary equipment (e.g., compressors, chill water pumps) does not need to be shutdown in order to stop air movement within the building.*
- *Even with all the air handlers shutdown, outside air is still present to the system through a common duct from the roof. The system is NOT designed to provide isolation, and will not prevent free flow of air into the building.*
- *The NMB will not have a positive pressure within the structure with the NMB ventilation system secured.*

The following instructions are to be used to secure all the air handlers supplying the Nuclear Maintenance Building in the event that the OSC ventilation must be secured for radiological hazards:

1. In Room 116 (located outside on the north side of the NMB) on the west wall by the entrance, position the Hand/Auto switch for AHU1 and AHU2 to the OFF (center) position.

2. In Room 207 (located on the second floor of the NMB) position the AHU3 Hand/Auto switch (on the west wall near the back of the room) and AHU4 Hand/Auto switch on the north wall (in the back of the room) to the OFF (center) position.

3. In Room 304 (located on the third floor of the NMB) position the Hand/Auto switch for AHU5 (on the west wall near the back of the room) and AHU6 Hand/Auto switch (on the north wall in the back of the room) to the OFF (center) position.

ENCLOSURE 2
(Page 1 of 1)

ANTICIPATED EMERGENCY RESPONSE TEAM TASKS

CAUTION

The immediate dispatch of teams is dependent on the type of emergency occurring. The situation should be assessed and the existing or potential hazards (electricity, toxic gases, obstructions, security situation, radiological conditions) to the Emergency Response Team members should be addressed.

1. Review the following suggested list for possible activities in which a team could be pre-staged:

   a. Emergency Response Teams to perform lineups in response to ECCS equipment failures, i.e., AFW, SI malfunction, etc.
   b. Containment Air Sampling
   c. In-plant/onsite radiological monitoring
   d. Offsite radiological monitoring
   e. RCS sample team
   f. Breaker alignment for Cold Leg Recirc

2. If conditions change, then the OSC Manager is responsible for ensuring that the pre-staged teams are notified, as deemed necessary.

   a. Turbine Deck
   b. Auxiliary Building
   c. 18 Foot Elevation of the Turbine Building
   d. EDG Buildings

3. Assess plant conditions.

4. Considering plant conditions, determine the potential requests for teams.

5. **IF** the decision is made to immediately dispatch team(s), **THEN** accountability and dose must be tracked by the OSC.

6. Inform the TSC of the dispatched team.

7. **IF** plant conditions do not pose a potential hazard to the team, **THEN** dispatch teams to prestaged locations to await further instructions.

ATTACHMENT 1
(Page 1 of 3)

OSC STAFF ACCOUNTABILITY LOG

DATE: _____

POSITION	NAME	BADGE NO.
OSC Manager		
OSC Supervisor		
OSC Re-Entry Coordinator		
OSC Materials Management Personnel		
OSC Recorder		
OSC Document Control Personnel		
OSC Security Officer		
OSC Status Board Keeper		
OSC Operations SRO		
OSC Operations Supervisor		
Plant Operators		
OSC Health Physics Supervisor		
OSC Health Physics Communicator		
OSC Dose Recorder		
OSC Health Physics Technicians		

ATTACHMENT 1
(Page 2 of 3)

OSC STAFF ACCOUNTABILITY LOG

DATE:_____

POSITION	NAME	BADGE NO.
OSC Health Physics Technicians		
(Cont'd)		
OSC Chemistry Supervisor		
OSC Chemistry Technicians		
Contract Medical Personnel		
(First Aid)		
OSC Mechanical Coordinator		
Mechanical Maintenance Personnel		
OSC Electrical Coordinator		
Electrical Maintenance Personnel		
OSC I&C Coordinator		
I&C Maintenance Personnel		

ATTACHMENT 1
(Page 3 of 3)

OSC STAFF ACCOUNTABILITY LOG

DATE:_____

POSITION	NAME	BADGE NO.
Miscellaneous Positions/Additions:		

ATTACHMENT 2
(Page 1 of 1)

OSC ACCESS LOG

OSC ACCESS LOG					
BADGE #	**Time Out**	**Time In**	**BADGE #**	**Time Out**	**Time In**

ATTACHMENT 3
(Page 1 of 1)

KEY CHARGE OUT LOG

POST MTG **SHIFT:** ________ **DATE:** ________________

KEY #	DATE & TIME		ISSUED TO	INITIALS	
	OUT	IN		ISSUED BY	RETRIEVED BY

ATTACHMENT 4
(Page 1 of 1)

SECURITY ACCOUNTABILITY SHEET

Badge #'s 1-500	Badge #'s 501-1000	Badge #'s 1001-1500	Badge #'s 1501-2000	Badge #'s 2001-2500	Badge #'s 2501-3000
Badge #'s 3001-3500	Badge #'s 3501-4000	Badge #'s 4001-4500	Badge #'s 4501-5000	Badge #'s 5001-5500	Badge #'s 5501-5599

ATTACHMENT 5
(Page 1 of 1)

OSC FIRST RESPONDER CHECK-OFF SHEET

NOTES

- *The following attachment steps may be performed out of sequence.*
- *These instructions assume that the OSC is being set up in its normal location (NMB second Floor OSC). However, the OSC may need to be set up in another location if radiological conditions threaten the safety of OSC responders. Movement of the equipment in the OSC cabinets to a location directed by the EC or the OSC Manager needs to be coordinated through Maintenance. The set up diagrams and directions provided in the OSC should be brought to the new facility. The OSC should be set up as close to the normal fashion as possible utilizing Figure 1 under the direction of the OSC Manager, if this move is required.*

☐ If not already unlocked by Security, unlock the OSC using the OSC key located in the break glass box at the door to the OSC.

☐ Turn on the OSC lighting.

☐ Sign in on the OSC Accountability Board and record badge number.

☐ If not already performed, open all cabinets/lockers in the OSC.

☐ a. The key to the OSC keybox may be obtained from the breakglass box at the door to the OSC or on the west wall of the OSC, as necessary.

☐ b. Obtain cabinet/locker keys for the HP, Chemistry, supply and document cabinets from the OSC keybox.

☐ c. Unlock and open all cabinets/lockers.

☐ Verify audibility of the Plant Page System throughout the OSC.

☐ Ensure the PA amplifier control switch, located on the support column in the center of the OSC, is placed in ON (up) position.

☐ Test the PA microphone and adjust the volume as necessary using the volume control knob located next to the PA microphone plug.

☐ Turn copy machines, computers, and fax machines **ON** and check machines for operability.

Completed by:_____ Date:_____

ATTACHMENT 6
(Page 1 of 2)

OSC MANAGER
CHECK-OFF SHEET

Facility Activation

NOTE

The following attachment steps may be performed out of sequence.

- ☐ Sign in on the Accountability Board, name and badge number.
- ☐ Determine from the OSC Supervisor when the OSC can be activated.
- ☐ Provide updates to OSC personnel and teams in the plant (classification changes, status of release, etc), approximately every 30 minutes, or as significant changes occur. Consider using other facility supervisors/coordinators in these updates.
- ☐ Ensure the Re-entry Coordinator is ready for the dispatch and tracking of teams.
- ☐ Contact the TSC Maintenance Manager using the speakerphone, or cordless headset phone, and maintain an open line.
- ☐ a. Make an announcement, as necessary, to keep the noise levels down so the speakerphone may be easily heard.
- ☐ Ensure all discipline Supervisors and team coordinators are implementing 0-EPIP-20111, Re-Entry.
- ☐ Upon receiving notice from the OSC Supervisor that the OSC is ready for operation, announce operational readiness to OSC personnel and inform the TSC.
- ☐ Acquire equipment out of service and status of the plant from the TSC Maintenance Manager and provide to the OSC Operations Supervisor if ERDADS is not available. Consider utilizing discipline leads to provide update in their areas.
- ☐ Brief the OSC personnel on the status of the emergency.
- ☐ Direct the OSC Recorder to maintain time and event information in the OSC Manager Logbook.
- ☐ Obtain personal dosimetry and ensure OSC personnel are obtaining dosimetry as directed by the OSC HP Supervisor.

ATTACHMENT 6
(Page 2 of 2)

OSC MANAGER
CHECK-OFF SHEET

Facility Operation

- ☐ Provide updates to OSC personnel and teams in the plant (classification changes, status of release, plant status, etc), approximately every 30 minutes or sooner, if necessary.
- ☐ Utilizing the OSC Supervisor, provide updates to the TSC Maintenance Manager of team activities and verify priorities.
- ☐ Direct and approve all Team formation through the Re-entry Coordinator based on requests from the TSC.
- ☐ Coordinate approval of exposures exceeding 10 CFR 20 exposure limits with the Emergency Coordinator and using 0-EPIP-20111, RE-ENTRY.
- ☐ Ensure all discipline Supervisors and team coordinators are implementing 0-EPIP-20111, Re-Entry.
- ☐ Prior to an evacuation of the Protected Area, ascertain the need to activate the assembly area and ensure Health Physics personnel are dispatched accordingly.
- ☐ **IF** the habitability of the OSC requires OSC evacuation, **THEN** contact the Emergency Coordinator to discuss relocation of the OSC.
- ☐ **IF** the OSC ventilation should be secured, **THEN** direct the OSC Team Coordinators to implement Enclosure 1, and to set up fans in the OSC for ventilation.
- ☐ Coordinate the need for Potassium Iodine (KI) with the TSC Health Physics Supervisor, as required.

Facility Closeout and Restoration

- ☐ Coordinate OSC deactivation with the Emergency Coordinator.
- ☐ Direct OSC deactivation with all OSC personnel.
- ☐ Ensure the OSC Recorder collects all OSC generated paperwork.
- ☐ Release OSC personnel, as appropriate

Completed by:_____ Date:_____

ATTACHMENT 7
(Page 1 of 4)

OSC SUPERVISOR CHECK-OFF SHEET

Facility Activation

NOTE

The following attachment steps may be performed out of sequence.

- ☐ Sign in on the Accountability Board, name and badge number.
- ☐ Ensure the OSC Security personnel are initiating the accountability process and have begun to control access/egress of the OSC.
- ☐ Ensure all discipline Supervisors and team coordinators are accounting for personnel presently working on tasks for the Control Room and are entering information on the Accountability Board and Team Status Board.
- ☐ Ensure all personnel are performing activation steps as outlined in this procedure.
- ☐ Ensure the Status Board Keeper is obtaining the details of the event from the TSC and has begun to update the boards.
- ☐ Ensure the Status Board Keeper and Materials Management Personnel have reported to the OSC, signed in, and are performing activation steps and prepared for assignment.
- ☐ Determine need to dress out teams in advance if plant conditions show signs of a potential radiological release.
- ☐ Ensure medical facility personnel are responding to the OSC.
- ☐ Ensure the following communication links with the TSC are established:
  - ☐ a. Health Physics (OSC HP Communicator)
  - ☐ b. Chemistry (OSC Chemistry Supervisor)
  - ☐ c. TSC Maintenance Manager (OSC Re-entry Coordinator)
- ☐ Monitor the phone tie to the TSC and periodically update the OSC Manager as necessary.

ATTACHMENT 7
(Page 2 of 4)

OSC SUPERVISOR CHECK-OFF SHEET

Facility Activation (Cont'd)

NOTES

- *The numbers marked in red next to the various positions on the Accountability Board indicate the minimum number of personnel required in that position. If that number is not present, the OSC can NOT be activated.*
- *If personnel are in the field performing actions needed to mitigate the emergency or are dispatched prior to the facility being activated, their names and badge numbers should be recorded on the Accountability Board. These personnel count toward minimum staffing.*
- *If personnel are available on site who can fill positions on the OSC Accountability Board, they should be contacted and asked to report to the OSC.*

Ensure the following OSC positions are filled to satisfy minimum staffing requirements prior to declaring the OSC operational:

☐ a. OSC Manager (1)

☐ b. Mechanical Maintenance Journeymen (2)

☐ c. Electrical Maintenance Journeymen (3)

☐ d. I&C Maintenance Journeymen (1)

☐ e. Radiation Protection Personnel (12)

☐ f. Chemistry Technicians (2)

NOTE

The Emergency Coordinator has the authority to waive individual's emergency response training requirements.

☐ If adequate staffing is not established in a timely manner in the OSC, then immediately initiate corrective actions to fill vacant positions, as necessary.

☐ Coordinate the support of the assembly area with the TSC Health Physics Supervisor.

☐ a. If the emergency may require the use of the assembly areas, dispatch the assembly area supervisor to the designated assembly area prior to the initiation of a site evacuation/site emergency declaration.

ATTACHMENT 7
(Page 3 of 4)

OSC SUPERVISOR CHECK-OFF SHEET

Facility Operation

- ☐ Ensure accountability (access/egress) is being maintained by Security.
- ☐ Ensure that the list of OSC personnel is transmitted to the TSC Security Supervisor for accountability.
- ☐ Check personal dosimetry and ensure OSC staff check personal dosimetry approximately every thirty minutes or as directed by the OSC HP Supervisor.
- ☐ Ensure that the Sequence of Events Status Board is visible through the TSC camera system in the TSC.
- ☐ Periodically verify the information on the Team Status Board and the Plant Data Board (ERDADS).
- ☐ Determine OSC manpower requirements for extended operations, as necessary.
- ☐ a. Establish a shift relief schedule.
- ☐ b. Transmit the shift relief schedule to the OSC Manager for approval by the Emergency Coordinator.
- ☐ c. Direct shift turnover of OSC personnel, when appropriate.
- ☐ d. Perform shift turnover to alternate OSC Supervisor.
- ☐ Ensure the communication link between the OSC Manager and the TSC Maintenance Manager is maintained.
- ☐ Notify the OSC Manager of all requests from the TSC to form OSC Emergency Response Teams.
- ☐ Enter information for OSC team formation on the type of team needed and the task to be performed on a form similar to Attachment 1, Team Briefing/Debriefing Form, of 0-EPIP-20111, Re-Entry.
- ☐ Observe Emergency Coordinator Briefings on the monitors and ensure facility attentiveness to the briefings.

ATTACHMENT 7
(Page 4 of 4)

OSC SUPERVISOR CHECK-OFF SHEET

Facility Closeout and Restoration

- ☐ Ensure a printout of the Accountability Board or a form similar to Attachment 1 has been completed by OSC Security personnel and relayed to the OSC Recorder.
- ☐ Ensure the status boards are copied and saved.
- ☐ Ensure the OSC has been returned to its original condition and an inventory of equipment has been completed.
- ☐ Forward all documentation to the Emergency Preparedness Coordinator.

Completed by:_____ Date:_____

ATTACHMENT 8
(Page 1 of 3)

RE-ENTRY COORDINATOR CHECK-OFF SHEET

Facility Activation

NOTE

The following attachment steps may be performed out of sequence.

☐ Sign in on the OSC Accountability Board, name and badge number.

☐ Ensure all available departmental radios are brought to the OSC.

☐ Verify all team coordinators and discipline supervisors, as needed, are planning for typical accident team tasks by dispatching teams as described in Enclosure 2.

☐ Ensure all OSC discipline supervisors/coordinators are accounting for personnel presently working on tasks in the plant for the Control Room and are entering information on the Accountability Board and Team Status Board.

NOTE

Contact with the TSC Engineering/Maintenance Liaison is for exchange of information between the Engineering Group in the TSC and the Maintenance Personnel in the OSC. Requests for teams must be initiated through the Emergency Coordinator.

☐ Establish contact with the OSC Manager and the TSC Maintenance Manager.

☐ Notify the OSC Supervisor you have completed your activation steps.

ATTACHMENT 8
(Page 2 of 3)

RE-ENTRY COORDINATOR CHECK-OFF SHEET

Facility Operation

☐ Direct the formation of, dispatch and maintain accountability of OSC Emergency Response Teams.

NOTE

Teams redirected in the field should receive a briefing prior to being redirected. Briefings should commensurate with the conditions in the plant and the necessity to expedite the action of the team.

☐ Ensure all OSC Emergency Response Teams are properly briefed using Attachment 1 of 0-EPIP-20111, RE-ENTRY and discipline supervisors/coordinators are implementing 0-EPIP-20111, RE-ENTRY.

☐ a. Ensure all briefing forms are completed and signed

☐ b. Ensure teams are provided with copies of the briefing/debriefing forms, as necessary.

☐ c. Ensure the Status Board Keeper is provided with the completed briefing forms so the information may be recorded on the board.

☐ Non-ERO personnel who may be requested to perform damage assessments, QC verifications, etc., should be utilized as part of an ERO-qualified team whose members can provide appropriate radiological monitoring support, as necessary, and are familiar with plant layout.

☐ Keep the OSC Manager informed of the status of all OSC Emergency Response Teams.

☐ Ensure OSC Emergency Response Teams are properly debriefed using Attachment 1 of 0-EPIP-20111, RE-ENTRY.

☐ a. De-Briefing forms should be given to the Status Board Keeper so the information may be recorded on the board.

☐ b. Ensure all de-briefing forms are completed and signed

☐ Ensure updates are provided to field personnel performing re-entry activities.

☐ a. Updates should include release status and impact on the team, as applicable.

ATTACHMENT 8
(Page 3 of 3)

RE-ENTRY COORDINATOR CHECK-OFF SHEET

Facility Operation (Cont'd)

If it becomes necessary to re-direct a team while they are out in the field, the Re-entry Coordinator should ensure the following or have the team return to the OSC:

- ☐ a. The team is de-briefed on previous task and information is documented on de-briefing form.
- ☐ b. The team is briefed on the new task
- ☐ c. Current radiological conditions are provided
- ☐ d. Dose received from previous task is considered before re-assignment
- ☐ e. Team members have proper protective clothing and equipment for performance of the task
- ☐ f. Briefing form is completed to document transmitted information.
- ☐ g. Ensure Status Board is updated with the new assignments.

Completed by:_____ Date:_____

ATTACHMENT 9
(Page 1 of 4)

OSC OPERATIONS SUPERVISOR CHECK-OFF SHEET

Facility Activation

NOTE

The following attachment steps may be performed out of sequence.

☐ Sign in on the Accountability Board, name and badge number.

☐ Obtain personal dosimetry, as directed by the OSC HP Supervisor.

☐ Obtain copies of the Team Briefing/Debriefing Form stored in the OSC Document Cabinet (form similar to Attachment 1 in 0-EPIP-20111, Re-Entry).

NOTES

- *The names and badge numbers of plant operators remaining in the plant need to be relayed from the Control Room to the OSC or acquired from the operators using other communication paths (i.e., radio, plant page, etc.)*
- *Any operators performing mitigation activities will continue their assigned tasks, as long as those activities can be performed without seriously jeopardizing their health and safety.*
- *Plant operators should remain in the plant UNLESS there is a radiological hazard (an area radiation monitor reading 100 mrem/hr or more above normal, or airborne activity at or above DAC levels).*
- *If there is a radiological hazard, plant operators should obtain radiological monitoring coverage and withdraw to a safe location. Dosimetry and monitoring personnel may need to be sent out to them.*
- *No one should remain in an area where they may exceed their allowed dose margin without the permission of the Emergency Coordinator.*
- *Plant operators should follow directions from the Control Room until the OSC and TSC are activated. Upon TSC and OSC activation, plant operators should be directed by the TSC through the OSC Operations Supervisor.*
- *Plant operators receive Advanced Radiation Worker Training and are therefore not required to be with an RPT unless there is a radiological event in progress.*

☐ Establish communications with the Control Room to obtain status of operations actions in the field and accountability information.

☐ a. Determine status of current and past plant operator activities and assign a team number to each operator currently in the plant.

☐ b. Ensure each plant operator team is logged on the Team Status Board.

ATTACHMENT 9
(Page 2 of 4)

OSC OPERATIONS SUPERVISOR CHECK-OFF SHEET

Facility Activation (Cont'd)

☐ c. Obtain accountability information (name, badge number) of plant operators currently working in the plant and enter on the OSC Staff Accountability Board.

☐ d. Verify those present in the OSC have signed in on the OSC Staff Accountability Board.

☐ e. Obtain emergency information status (equipment status, radiological hazards, etc.) and update the Status Board.

☐ Direct any available Senior Reactor Operator (SRO) to report to the OSC to assist the OSC Operations Supervisor.

☐ Ensure that each operator or team of operators is assigned a hand-held radio.

☐ Ensure proper dosimetry is assigned and provided to the NLO's, as necessary.

☐ Ensure the Control Room staff and OSC Manager are notified of the plant operator team assignments.

☐ Refer to Enclosure 2 for a guide to anticipate and plan for the request of typical accident response / EOP team tasks.

IF a radiological release is in progress, adverse radiological conditions exist, or other conditions warrant, **THEN** perform the following:

☐ a. Ensure plant operators have or obtain personal dosimetry.

☐ b. Ensure plant operators have radiological monitoring coverage.

☐ c. Obtain necessary radiological coverage by discussing radiological conditions with the OSC HP Supervisor.

NOTE

During emergency situations, the plant operator prior to reporting to the OSC should obtain ICCS keys from the break glass boxes in the plant operator shacks.

☐ Ensure the ICCS keys and all available department radios are obtained by the Plant Operators prior to them reporting to the OSC.

ATTACHMENT 9
(Page 3 of 4)

OSC OPERATIONS SUPERVISOR CHECK-OFF SHEET

Facility Operation

☐ Initiate a log of activities.

☐ Inform the OSC Supervisor that you have completed your activation steps.

☐ Assume control of the NLO's from the Control Room once the TSC and OSC are activated.

☐ a. Notify the TSC, NLO's, and the Control Room that you have assumed control.

☐ Maintain an adequate number of qualified team personnel for re-entry assignments.

☐ a. Request additional support as necessary.

☐ Coordinate the formation of OSC Emergency Response Teams with the Re-entry Coordinator.

☐ a. Assign tasks to teams in the plant.

☐ b. Ensure teams are provided with adequate task and radiological briefings.

☐ (1) Briefings should commensurate with the conditions in the plant and the necessity to expedite the action of the team (i.e., trip the reactor).

☐ c. Ensure Team Status Board accurately reflects status of team.

☐ Ensure team dose is being tracked and recorded.

☐ Ensure time and manpower constraints are enforced for teams utilizing SCBAs and track the airtime remaining in each SCBA throughout SCBA use.

If it becomes necessary to re-direct a team while they are out in the field, the Re-entry Coordinator should ensure the following or have the team return to the OSC:

☐ a. The team is de-briefed on previous task and information is documented on de-briefing form.

☐ b. The team is briefed on the new task

☐ c. Current radiological conditions are provided

☐ d. Dose received from previous task is considered before re-assignment

ATTACHMENT 9
(Page 4 of 4)

OSC OPERATIONS SUPERVISOR
CHECK-OFF SHEET

Facility Operation (Cont'd)

- ☐ e. Team members have proper protective clothing and equipment for performance of the task
- ☐ f. Briefing form is completed to document transmitted information.
- ☐ g. Ensure Team Status Board is updated with the new assignments.
- ☐ Maintain communications with team personnel performing re-entry activities.
- ☐ a. Updates should include release status and impact on the team, as applicable.
- ☐ Check personal dosimetry and ensure operators check personal dosimetry approximately every thirty minutes, or as required by plant radiological conditions.
- ☐ Maintain applicable OSC documentation (as neat and complete as possible, limit abbreviations).
- ☐ Brief the OSC Manager on OSC Emergency Response Team status, as necessary.
- ☐ Coordinate shift relief with the OSC Supervisor, as necessary.

Completed by:_____ Date:_____

ATTACHMENT 10
(Page 1 of 5)

OSC HEALTH PHYSICS SUPERVISOR CHECK-OFF SHEET

Facility Activation

NOTE

The following attachment steps may be performed out of sequence.

☐ Sign in on the OSC Staff Accountability Board, name and badge number.

Ensure accountability of Health Physics personnel:

☐ a. **IF** all on shift Health Physics personnel are present in the OSC, **THEN** verify that they have signed in on the Accountability Board.

☐ b. **IF** all on shift Health Physics personnel are not present in the OSC, **THEN** establish contact (radio or plant page) with them to acquire accountability information (name, badge number) and enter on the OSC Staff Accountability Board.

☐ Initiate corrective actions, as necessary, to fill open Health Physics positions needed for activation of the OSC.

☐ a. If available, qualified Operations Department fire brigade members should relieve Health Physics Department fire brigade members to ensure Health Physics personnel are available for re-entry and field monitoring activities.

☐ Obtain emergency status information from shift personnel.

☐ Ascertain the status of and secure the RCA Control Point.

☐ a. Maintain the RCA Checkpoint open if the Emergency Coordinator deems it necessary.

☐ b. Support the RCA Checkpoint until all non-essential personnel have left the RCA and accountability is established.

☐ c. Prior to leaving the HP Control Point, ensure the phones are forwarded to the OSC.

☐ Ensure all available HP Department hand held radios are brought to the OSC.

☐ Ensure the OSC Health Physics Communicator has established the telephone link to the TSC.

☐ 9. Assign a qualified RPT to issue respirators to OSC personnel as necessary.

ATTACHMENT 10
(Page 2 of 5)

OSC HEALTH PHYSICS SUPERVISOR CHECK-OFF SHEET

Facility Activation (Cont'd)

☐ Contact the TSC HP Supervisor and determine the personal dosimetry requirements based on plant radiological conditions.

☐ a. Obtain personal dosimetry and instruct the Dose Recorders to distribute dosimetry to OSC personnel in accordance with 0-EPIP-20111, Re-Entry.

☐ b. Ensure the Dose Recorders initiate all required dosimetry paperwork.

☐ c. Personnel required to remain in the plant may need to have dosimetry brought out to them.

☐ d. NRC personnel will bring government issued dosimetry with them.

NOTE

During any declared emergency with radiological hazards, no OSC personnel should be in the field without dedicated HP coverage. For example, if only one RPT is attached to a team, that team should not break up until another RPT joins the team to provide necessary coverage.

☐ Determine the need to send Health Physics coverage and dosimetry to personnel presently in the plant (operators, maintenance personnel, etc. currently involved in mitigating the event). Ascertain the tasks being performed in the plant.

☐ Ensure the keys to the OSC HP equipment lockers have been obtained from the HPSS Office or the OSC emergency key box.

☐ a. Ensure that the Health Physics Emergency Equipment Lockers have been opened

☐ b. Ensure equipment has been checked for operability.

☐ Ensure that the OSC radiological control point (usually established on the ground floor at the NE end of the NMB) has been established and is properly posted.

☐ a. Ensure all remaining first floor entrance doors and the second floor exit doors are blocked by the stanchions stored in the OSC cabinets.

☐ b. Ensure communications are established with the control point personnel by means of radio, phone or otherwise.

ATTACHMENT 10
(Page 3 of 5)

OSC HEALTH PHYSICS SUPERVISOR CHECK-OFF SHEET

Facility Activation (Cont'd)

☐ Ensure habitability surveys of the OSC are initiated, as necessary and results are provided to the OSC Manager.

☐ If abnormal radiological conditions threaten the facility, then evaluate securing OSC ventilation using Enclosure 1 and make appropriate recommendations to the OSC Manager.

☐ Refer to Enclosure 2 as a guide to anticipate and plan for the request of typical accident team tasks.

☐ **IF** a radiological release is occurring or expected, **THEN** anticipate the dispatch of field monitoring teams (onsite teams to perform in-plant radiological monitoring and offsite teams to perform offsite radiological monitoring).

☐ a. Ensure the offsite field monitoring teams are prepared to perform radiological monitoring using 0-EPIP-20129, EMERGENCY RESPONSE TEAM - RADIOLOGICAL MONITORING.

☐ b. Inform the TSC Offsite Team Leader that the offsite teams may be dispatched when needed.

NOTE

If the below mentioned emergency response vehicles are unavailable, any suitable alternate vehicle may be used.

☐ c. For off-site field monitoring activities, obtain the keys from security for the emergency response vehicles at the exit window in the Nuclear Entrance Building. Two of the following vehicles shall be available for off-site field monitoring activities: Security Van (4389), Security SUV (4342), and Security SUV (4346)

☐ d. Coordinate the acquisition of other company vehicles, as needed with the Re-Entry Coordinator or TSC Security Supervisor.

☐ **IF** radiological conditions warrant, **AND** sufficient personnel are available, **THEN** dispatch HP coverage to the Control Rooms, and to CAS/SAS, as needed.

ATTACHMENT 10
(Page 4 of 5)

OSC HEALTH PHYSICS SUPERVISOR CHECK-OFF SHEET

Facility Activation (Cont'd)

- ☐ If necessary, access to individual control points should be tracked using form HP-2, Area Access Log.
- ☐ If necessary, ensure steps are being taken to make operable the portable multi-channel analyzer.
- ☐ Initiate a log of activities.
- ☐ Notify the OSC Supervisor you have completed your activation steps.

Facility Operation

- ☐ Check personal dosimetry and ensure OSC staff check personal dosimetry approximately every thirty minutes, or as required by plant radiological conditions.
- ☐ Maintain an adequate number of qualified team personnel for re-entry assignments.
- ☐ a. Request additional support as necessary.
- ☐ Ensure radiological briefings are being conducted for teams dispatched from the OSC or redirected in the field in accordance with 0-EPIP-20111, RE-ENTRY.
- ☐ a. Briefings should be commensurate with the conditions in the plant and the necessity to expedite the action of the team.
- ☐ Ensure radiological conditions are posted on the Plant Diagrams Board, as necessary.
- ☐ Evaluate an actual or potential release impact on the teams in the plant.
- ☐ Maintain communications with team personnel performing re-entry activities.
- ☐ a. Updates should include release status and impact on the team, as applicable.
- ☐ Ensure dose received by team members is being tracked and recorded by the Dose Recorders and on the Team Status Board.
- ☐ Ensure time and manpower constraints are enforced for Emergency Response Teams utilizing SCBAs and track the airtime remaining in each SCBA throughout SCBA use.

ATTACHMENT 10
(Page 5 of 5)

OSC HEALTH PHYSICS SUPERVISOR CHECK-OFF SHEET

Facility Operation (Cont'd)

- ☐ Maintain communications with the TSC HP Supervisor through the OSC HP Communicator.
- ☐ Ensure coordination with the Re-Entry Coordinator is accomplished in the event that field teams need to be re-directed.
- ☐ Brief the OSC Manager on significant radiological changes in the plant.
- ☐ Maintain applicable OSC documentation (as neat and complete as possible, limit abbreviations).
- ☐ Coordinate shift relief with the OSC Supervisor, as necessary.

Completed by:_____ Date:_____

ATTACHMENT 11
(Page 1 of 3)

OSC CHEMISTRY SUPERVISOR CHECK-OFF SHEET

Facility Activation

NOTE

The following attachment steps may be performed out of sequence.

☐ Ensure all available departmental radios are brought to the OSC.

☐ Sign in on the OSC Accountability Board, name and badge number.

Ensure accountability of Chemistry and Contract Medical Response Personnel.

☐ a. **IF** all Chemistry and Contract Medical Response Personnel are present in the OSC, **THEN** verify that they have signed in (name and badge number) on the OSC Staff Accountability Board.

☐ b. **IF** all Chemistry and Contract Medical Response Personnel are not present in the OSC, **THEN** establish contact (radio or plant page) with them to acquire accountability information (name, badge number) and enter required information on the OSC Staff Accountability Board.

☐ Initiate corrective actions to fill open positions.

☐ Ensure the Emergency Medical Vehicle is staged inside the Protected Area.

☐ Obtain emergency status information from shift personnel regarding tasks previously performed.

☐ Ensure that the Chemistry communication link to the TSC has been established.

NOTE

Two Fax Machines are available in the OSC. The OSC Operations Fax Machine is used primarily for communications with the TSC. The OSC Chemistry Fax Machine is used primarily for communication with the Health Physics and/or Chemistry Count Rooms.

☐ Verify operability of the OSC Chemistry Fax Machine and the Chemistry Count Room Fax Machine.

☐ Obtain personal dosimetry, as directed by the OSC HP Supervisor.

☐ a. Instruct Chemistry and Contract Medical personnel to obtain dosimetry.

☐ Obtain HP coverage for Chemistry personnel in the plant, as required by the OSC Health Physics Supervisor.

ATTACHMENT 11
(Page 2 of 3)

OSC CHEMISTRY SUPERVISOR CHECK-OFF SHEET

Facility Activation

Prepare for re-entry activities.

☐ a. From the OSC Document Cabinets, obtain copies of the Team Briefing/Debriefing Form, a form similar to Attachment 1 in 0-EPIP-20111, Re-Entry.

☐ b. Refer to Enclosure 2 of this procedure for a guide in anticipating and planning for the request of Containment Air Sampling, and other accident team tasks, as necessary.

☐ Initiate a log of activities.

☐ Notify the OSC Supervisor you have completed your activation steps.

Facility Operation

☐ Check personal dosimetry and ensure Chemistry and Contract Medical personnel check personal dosimetry approximately every thirty minutes, or as required by plant radiological conditions.

☐ Maintain an adequate number of qualified team personnel for re-entry assignments.

☐ a. Request additional support as necessary.

☐ Coordinate the formation of Emergency Response Teams with the OSC Manager.

☐ a. Ensure teams are provided with adequate task and radiological briefings.

☐ (1) Briefings should be commensurate with the conditioning in the plant and the necessity to expedite the action of the team.

☐ b. Ensure Team Status Board accurately reflects status of team.

☐ Maintain communications with team personnel performing re-entry activities.

☐ a. Updates should include release status and impact on the team, as applicable.

ATTACHMENT 11
(Page 3 of 3)

OSC CHEMISTRY SUPERVISOR CHECK-OFF SHEET

Facility Operation (Cont'd

If it becomes necessary to re-direct a team while they are out in the field, the Re-entry Coordinator should ensure the following or have the team return to the OSC:

- ☐ a. The team is de-briefed on previous task and information is documented on de-briefing form.
- ☐ b. The team is briefed on the new task
- ☐ c. Current radiological conditions are provided
- ☐ d. Dose received from previous task is considered before re-assignment
- ☐ e. Team members have proper protective clothing and equipment for performance of the task
- ☐ f. Briefing form is completed to document transmitted information.
- ☐ g. Ensure Team Status Board is updated with the new assignments.
- ☐ Ensure dose received by team members is tracked by Dose Recorders and on the Team Status Board.
- ☐ Ensure time and manpower constraints are enforced for Emergency Response Teams utilizing SCBAs and track the airtime remaining in each SCBA throughout SCBA use.
- ☐ **IF** Medical Facility personnel are dispatched from the OSC, **THEN** ensure they return to the OSC after completing assigned tasks.
- ☐ Maintain communications with counterparts in the TSC, as necessary.
- ☐ Maintain applicable OSC documentation (as neat and complete as possible, limit abbreviations).
- ☐ Coordinate shift relief with the OSC Supervisor, as necessary.

Completed by:_____ Date:_____

ATTACHMENT 12
(Page 1 of 3)

OSC MECHANICAL COORDINATOR CHECK-OFF SHEET

Facility Activation

NOTE

The following attachment steps may be performed out of sequence.

☐ Ensure all available departmental radios are brought to the OSC.

☐ Sign in on the OSC Accountability Board, name and badge number.

Ensure accountability of Mechanical personnel.

☐ a. **IF** all Mechanical personnel are present in the OSC, **THEN** verify they have signed in on the OSC Staff Accountability Board.

☐ b. **IF** all Mechanical personnel are not present in the OSC, **THEN** establish contact (radio or plant page) with them to acquire accountability information (name, badge number) and enter required information on the OSC Staff Accountability Board.

☐ Initiate corrective actions to fill open positions.

☐ Obtain personal dosimetry and complete associated documentation, as directed by the OSC HP Supervisor.

☐ Obtain Health Physics coverage for Mechanical Maintenance personnel in the plant, as required by the OSC Health Physics Supervisor.

☐ Synchronize the OSC clock with ERDADS time.

Prepare for re-entry activities.

☐ a. From the OSC Document Cabinets, obtain copies of the Briefing/Debriefing Form, a form similar to Attachment 1 in 0-EPIP-20111, Re-entry.

☐ **IF** directed by the OSC Manager, **THEN** dispatch personnel to secure OSC ventilation using Enclosure 1, and obtain fans to circulate air within the facility.

☐ Initiate a log of activities.

☐ Notify the OSC Supervisor you have completed your activation steps.

ATTACHMENT 12
(Page 2 of 3)

OSC MECHANICAL COORDINATOR
CHECK-OFF SHEET

Facility Operation

☐ Check personal dosimetry and ensure responsible OSC staff check personal dosimetry approximately every thirty minutes, or as required by plant radiological conditions.

☐ Maintain an adequate number of qualified team personnel for re-entry assignments.

☐ a. Request additional support as necessary.

☐ Coordinate formation of Emergency Response Teams with the Re-entry Coordinator.

☐ a. Ensure teams are provided with adequate task and radiological briefings.

☐ (1) Briefing should be commensurate with the conditions in the plant and the necessity to expedite the action of the team.

☐ b. Ensure Team Status Board accurately reflects status of teams.

☐ Maintain communications with team personnel performing re-entry activities.

☐ a. Updates should include release status and impact on the team, as applicable.

If it becomes necessary to re-direct a team while they are out in the field, the Re-entry Coordinator should ensure the following or have the team return to the OSC:

☐ a. The team is de-briefed on previous task and information is documented on de-briefing form.

☐ b. The team is briefed on the new task

☐ c. Current radiological conditions are provided

☐ d. Dose received from previous task is considered before re-assignment

☐ e. Team members have proper protective clothing and equipment for performance of the task

☐ f. Briefing form is completed to document transmitted information.

☐ g. Ensure Team Status Board is updated with the new assignments.

ATTACHMENT 12
(Page 3 of 3)

OSC MECHANICAL COORDINATOR CHECK-OFF SHEET

Facility Operation (Cont'd)

- ☐ Ensure dose received by team members is tracked by Dose Recorders and on the Team Status Board.
- ☐ Ensure time and manpower constraints are enforced for Emergency Response Teams utilizing SCBAs and track the airtime remaining in each SCBA throughout SCBA use.
- ☐ Provide mechanical expertise to assist the TSC Technical Support Group as necessary.
- ☐ Maintain applicable OSC documentation (as neat and complete as possible, limit abbreviations).
- ☐ Coordinate shift relief with the OSC Supervisor, as necessary.

Completed by:_____ Date:_____

ATTACHMENT 13
(Page 1 of 3)

OSC ELECTRICAL COORDINATOR CHECK-OFF SHEET

Facility Activation

NOTE

The following attachment steps may be performed out of sequence.

☐ Ensure all available departmental radios are brought to the OSC.

☐ Sign in on the OSC Accountability Board, name and badge number.

Ensure accountability of Electrical Maintenance Personnel.

☐ a. **IF** all Electrical personnel are present in the OSC, **THEN** verify that they have signed in on the OSC Staff Accountability Board.

☐ b. **IF** all Electrical personnel are not present in the OSC, **THEN** establish contact (radio or plant page) with them to acquire accountability information (name, badge number) and enter required information on the OSC Staff Accountability Board.

☐ Initiate corrective actions to fill open positions.

☐ Obtain personal dosimetry and complete associated documentation, as directed by the OSC HP Supervisor.

☐ Obtain Health Physics coverage for the Electrical Maintenance personnel in the plant, as required by the OSC Health Physics Supervisor.

☐ Verify audibility of the plant page system in the OSC.

Prepare for re-entry activities.

☐ a. From the Document Cabinets, obtain copies of Team Briefing/Debriefing Form, a form similar to Attachment 1 in 0-EPIP-20111, Re-entry.

☐ **IF** directed by the OSC Manager, **THEN** dispatch personnel to secure OSC ventilation using Enclosure1, and obtain fans to circulate air within the facility.

☐ Initiate a log of activities.

☐ Notify the OSC Supervisor you have completed your activation steps.

ATTACHMENT 13
(Page 2 of 3)

OSC ELECTRICAL COORDINATOR CHECK-OFF SHEET

Facility Operation

☐ Check personal dosimetry and ensure responsible OSC staff check personal dosimetry approximately every thirty minutes, or as required by plant radiological conditions.

☐ Maintain an adequate number of qualified team personnel for re-entry assignments.

☐ a. Request additional support as necessary.

☐ Coordinate formation of Emergency Response Teams with the Re-entry Coordinator.

☐ a. Ensure teams are provided with adequate task and radiological briefings.

☐ (1) Briefings should be commensurate with the conditions in the plant and the necessity to expedite the action of the team.

☐ b. Ensure Team Status Board accurately reflects status of teams.

☐ Maintain communications with team personnel performing re-entry activities.

☐ a. Updates should include release status and impact on the team, as applicable.

If it becomes necessary to re-direct a team while they are out in the field, the Re-entry Coordinator should ensure the following or have the team return to the OSC:

☐ a. The team is de-briefed on previous task and information is documented on de-briefing form.

☐ b. The team is briefed on the new task

☐ c. Current radiological conditions are provided

☐ d. Dose received from previous task is considered before re-assignment

☐ e. Team members have proper protective clothing and equipment for performance of the task

☐ f. Briefing form is completed to document transmitted information.

☐ g. Ensure Team Status Board is updated with the new assignments.

ATTACHMENT 13
(Page 3 of 3)

OSC ELECTRICAL COORDINATOR CHECK-OFF SHEET

Facility Operation (Cont'd)

- ☐ Ensure dose received by team members is tracked by Dose Recorders and on the Team Status Board.
- ☐ Ensure time and manpower constraints are enforced for Emergency Response Teams utilizing SCBAs and track the airtime remaining in each SCBA throughout SCBA use.
- ☐ Provide electrical expertise to assist the TSC Technical Support Group as necessary.
- ☐ Maintain applicable OSC documentation (as neat and complete as possible, limit abbreviations).
- ☐ Coordinate shift relief with the OSC Supervisor, as necessary.

Completed by:_____ Date:_____

ATTACHMENT 14
(Page 1 of 3)

OSC I&C COORDINATOR CHECK-OFF SHEET

Facility Activation

NOTE

The following attachment steps may be performed out of sequence.

☐ Ensure all available departmental radios are brought to the OSC.

☐ Sign in on the OSC Accountability Board, name and badge number.

Ensure accountability of I&C Maintenance personnel.

☐ a. **IF** all I&C Maintenance personnel are present in the OSC, **THEN** verify they have signed in on the OSC Staff Accountability Board.

☐ b. **IF** all I&C Maintenance personnel are not present in the OSC, **THEN** establish contact (radio or plant page) with them to acquire accountability information (name, badge number) and enter required information on the OSC Staff Accountability Board.

☐ Initiate corrective actions to fill open positions.

☐ Obtain personal dosimetry and complete associated documentation, as directed by the OSC HP Supervisor.

☐ Obtain Health Physics coverage for the I&C Maintenance personnel in the plant, as required by the OSC Health Physics Supervisor.

☐ Ensure the TV System is on and turned to the Emergency Information Channel (usually Channel 8).

Prepare for re-entry activities.

☐ a. From the OSC Document Cabinets, obtain copies of the Briefing/Debriefing Form, a form similar to Attachment 1 in 0-EPIP-20111, Re-entry.

☐ **IF** directed by the OSC Manager, **THEN** dispatch personnel to secure OSC ventilation using Enclosure 1, and obtain fans to circulate air within the facility.

☐ Initiate a log of activities.

☐ Notify the OSC Supervisor you have completed your activation steps.

ATTACHMENT 14
(Page 2 of 3)

OSC I&C COORDINATOR CHECK-OFF SHEET

Facility Operation

☐ Check personal dosimetry and ensure responsible OSC staff check personal dosimetry approximately every thirty minutes, or as required by plant radiological conditions.

☐ Maintain an adequate number of qualified team personnel for re-entry assignments.

☐ a. Request additional support as necessary.

☐ Coordinate formation of Emergency Response Teams with the Re-entry Coordinator.

☐ a. Ensure teams are provided with adequate task and radiological briefings.

☐ (1) Briefings should be commensurate with the conditions in the plant and the necessity to expedite the action of the team.

☐ b. Ensure Team Status Board accurately reflects status of teams.

☐ Maintain communications with team personnel performing re-entry activities.

☐ a. Updates should include release status and impact on the team, as applicable.

If it becomes necessary to re-direct a team while they are out in the field, the Re-entry Coordinator should ensure the following or have the team return to the OSC:

☐ a. The team is de-briefed on previous task and information is documented on de-briefing form.

☐ b. The team is briefed on the new task

☐ c. Current radiological conditions are provided

☐ d. Dose received from previous task is considered before re-assignment

☐ e. Team members have proper protective clothing and equipment for performance of the task

☐ f. Briefing form is completed to document transmitted information.

☐ g. Ensure Team Status Board is updated with the new assignments.

ATTACHMENT 14
(Page 3 of 3)

OSC I&C COORDINATOR
CHECK-OFF SHEET

Facility Operation (Cont'd)

- ☐ Ensure dose received by team members is tracked by Dose Recorders and on the Team Status Board.
- ☐ Ensure time and manpower constraints are enforced for Emergency Response Teams utilizing SCBAs and track the airtime remaining in each SCBA throughout SCBA use.
- ☐ Provide I&C expertise to assist the TSC Technical Support Group as necessary.
- ☐ Maintain applicable OSC documentation (as neat and complete as possible, limit abbreviations).
- ☐ Coordinate shift relief with the OSC Supervisor, as necessary.

Completed by:_____ Date:_____

ATTACHMENT 15
(Page 1 of 2)

OSC EMERGENCY RESPONSE TEAM MEMBERS CHECK-OFF SHEET

Activation/Operation

NOTE

The following attachment steps may be performed out of sequence.

- ☐ Bring available departmental radios to the OSC.
- ☐ If convenient, obtain necessary tools and equipment to perform emergency repair or damage control activities.
- ☐ Sign in on the OSC Accountability Board, name and badge number.
- ☐ Report any equipment or supply problems to your respective Team Coordinator or Discipline Supervisor.
- ☐ Notify your supervisor of your readiness status.
- ☐ Remain in your designated area and await further instructions from your team coordinator / discipline supervisor.

If selected as a team member, prepare for re-entry activities.

- ☐ a. Don personal protective equipment and clothing, as necessary.
- ☐ b. Obtain appropriate dosimetry from Dose Recorders.
- ☐ c. Move to the team briefing area for task and radiological briefing.
- ☐ d. Ensure the Team Status Board appropriately reflects your team members and assigned task.
- ☐ When leaving the OSC, check out with the OSC Security officer and dose recorders.
- ☐ Proceed along the pre-planned route to the work location
- ☐ Perform emergency repair or damage control activities, as directed.
- ☐ Maintain frequent communications with the discipline supervisor / team coordinator using communications via the quickest available medium (handheld radio, plant page, etc.) provided no additional radiological concerns result from the use.
- ☐ a. Results of equipment damage assessments should be reported back to the OSC as soon as the evaluation is complete.

ATTACHMENT 15
(Page 2 of 2)

OSC EMERGENCY RESPONSE TEAM MEMBERS CHECK-OFF SHEET

Activation/Operation

- ☐ Request additional personnel and equipment, if necessary.
- ☐ Check dosimetry and monitor personal exposure.
- ☐ Upon return, follow personnel decontamination procedures as specified by the Control Point HP, as necessary.
- ☐ Upon return to the OSC, check in with the OSC Security Officer.
- ☐ Prepare for de-briefing.
- ☐ a. Report to the debriefing area.
- ☐ b. Actively participate in the de-briefing.
- ☐ c. Ensure the Dose Recorders have recorded exposure.
- ☐ d. Ensure Team Status Board accurately reflects the status of the team.
- ☐ Return to designated area and stand by for further instruction from Team Coordinator.

During facility briefings, stop what you're doing, pay attention, and contribute as requested.

Completed by:_____ Date:_____

ATTACHMENT 16
(Page 1 of 1)

CONTRACT MEDICAL PERSONNEL CHECK-OFF SHEET

Facility Activation

NOTE

The following attachment steps may be performed out of sequence.

- ☐ Ensure the Emergency Medical Vehicle is staged inside the Protected Area.
- ☐ Respond to the OSC
- ☐ Sign in on the Accountability Board, name and badge number.
- ☐ Prepare to respond to medical emergencies, as necessary.

Facility Operation

- ☐ Perform as a Emergency Response Team member, as directed by OSC Chemistry Supervisor
- ☐ Maintain communications with the Control Room and OSC, as necessary
- ☐ Monitor personal radiation dose.

Completed by:_____ Date:_____

ATTACHMENT 17
(Page 1 of 1)

DOSE RECORDERS
CHECK-OFF SHEET

Facility Activation/Operation

NOTE

The following attachment steps may be performed out of sequence.

- ☐ Sign in on the Accountability Board, name and badge number.
- ☐ Ensure adequate number of DADs are present in the OSC. If additional DADs are needed, obtain from Health Physics Control Point.
- ☐ Obtain current HIS-20 from computer or obtain printout for exposure history and personnel qualifications.
- ☐ Obtain necessary procedure, forms, and dosimetry from OSC cabinets.
- ☐ Begin the assignment of dosimetry to OSC personnel utilizing 0-EPIP-20111, RE-ENTRY, Enclosure 1.
- ☐ Record and track exposure (DDE and thyroid) of team personnel.
- ☐ a. Utilize HP-9.20 and HP-9.21 or similar forms located in the Health Physics spare forms files to record and track dose.
- ☐ b. Actively participate in briefings to ensure team members are provided with proper dosimetry.
- ☐ c. Actively participate in de-briefings to adequately capture dose history of team members.
- ☐ Assist OSC HP Supervisor in setting margins.
- ☐ Keep OSC HP Supervisor and TSC HP Supervisor appraised of dose status of those nearing or exceeding exposure limit guidance.

Completed by:_____ Date:_____

ATTACHMENT 18
(Page 1 of 1)

MATERIALS MANAGEMENT PERSONNEL CHECK-OFF SHEET

Facility Activation/Operation

NOTE

The following attachment steps may be performed out of sequence.

- ☐ Sign in on the Accountability Board, name and badge number.
- ☐ Ensure the Re-Entry Coordinator and the OSC Supervisor are aware of your availability to assist Emergency Response Teams.
- ☐ Remain in your designated area and await further instructions from the Re-entry Coordinator.
- ☐ Assist teams in obtaining necessary parts and materials.

Completed by:_____ Date:_____

ATTACHMENT 19
(Page 1 of 1)

OSC RECORDER CHECK-OFF SHEET

Facility Activation/Operation

NOTE

The following attachment steps may be performed out of sequence.

- ☐ Ensure the ERDADS board is logged on and is displaying the correct screen.
- ☐ Sign in on the Accountability Board, name and badge number.
- ☐ Obtain the OSC Manager logbook.
- ☐ Notify the OSC Manager you are ready to perform your duties.
- ☐ Begin logging time/event information in the OSC Manager logbook.
  - ☐ a. Maintain documentation adequate to recreate the event.
  - ☐ b. Document team requests from the TSC and time of request.
  - ☐ c. Document emergency event status information and time received.
- ☐ Maintain communication with the TSC Maintenance Manager and periodically update the OSC Manager as necessary.

Completed by:_____ Date:_____

ATTACHMENT 20
(Page 1 of 1)

OSC HP COMMUNICATOR CHECK-OFF SHEET

Facility Activation

NOTE

The following attachment steps may be performed out of sequence.

☐ Sign in on the OSC Accountability Board, name and badge number.

☐ Ensure your workstation phone is operable.

☐ Initiate contact with your counterpart in the TSC.

a. The phone number for the TSC HP OSC Communicator should be on the phone or can be found in the ERD.

☐ Notify the OSC HP Supervisor you have completed your activation steps.

Facility Operation

☐ Maintain communications with counterparts in the TSC.

☐ Provide updates and clarification to OSC HP Supervisor, as necessary.

Completed by:_____ Date:_____

ATTACHMENT 21
(Page 1 of 1)

OSC STATUS BOARD KEEPER CHECK-OFF SHEET

Facility Activation

NOTE

The following attachment steps may be performed out of sequence.

- ☐ Sign in on the OSC Accountability Board, name and badge number.
- ☐ Ensure the Status Board Keeper's computer is operational and logged on to the correct screen.
- ☐ Begin documenting team status for those teams currently in the field.
- ☐ Notify the OSC Supervisor that you have completed your activation steps.

Facility Operation

- ☐ Ensure you are being provided with a copy of all Team Briefing/Debriefing Forms (a form similar to Attachment 1 in 0-EPIP-20111, RE-ENTRY).
- ☐ a. Record information from the Briefing/Debriefing forms on the Status Board.

Update the Emergency Response Team Status Board:

- ☐ a. Ensure team numbers are sequential (i.e., #1, #2, #3...)
- ☐ b. List the names of the team leader and all team members.
- ☐ c. Ensure a priority is established for each team.
- ☐ d. Provide a brief description of the team task. Indicate major equipment involved, task to be performed and plant location.
- ☐ e. Indicate the time the team is dispatched from the OSC.
- ☐ f. Indicate the time the team returns to the OSC.
- ☐ g. Record any comments, special considerations, status updates, problems encountered, etc. in the comments block.
- ☐ h. As significant changes occur, copy the board for assisting in the recreation of the event.

Ensure data is accurate.

- ☐ a. Verify any discrepancies with the OSC Supervisor.
- ☐ b. Indicate corrected data by circling the entry on printouts.

Completed by:_____ Date:_____

ATTACHMENT 22
(Page 1 of 1)

DOCUMENT CONTROL PERSONNEL CHECK-OFF SHEET

Facility Activation

NOTE

The following attachment steps may be performed out of sequence.

☐ Sign in on the OSC Accountability Board, name and badge number.

☐ Ensure the copy machine has been turned on.

NOTES

- *The keys to the OSC Document Cabinets are located in the OSC Key Box. Refer to Figure 1 for location.*
- *Not all procedures that could potentially be needed are in the OSC file cabinets. All procedures can be obtained through the Document Control computer using Lotus Notes.*

☐ Establish access to the OSC Document Cabinets.

☐ Provide assistance to the OSC staff in obtaining controlled documents.

Anticipate the following requests from the document cabinets:

☐ a. ERDs for facility phone numbers.

☐ b. Assembly Area Supervisor's Binder.

☐ c. Office supplies.

☐ Notify the OSC Supervisor you have completed your activation steps.

Facility Operation

☐ Maintain access to the OSC Document Cabinets.

☐ Provide assistance in obtaining controlled documents by OSC staff.

☐ Provide assistance in obtaining office supplies as necessary.

Completed by:_____ Date:_____

ATTACHMENT 23
(Page 1 of 1)

OSC SECURITY OFFICER CHECK-OFF SHEET

Facility Activation/Operation

NOTE

The following attachment steps may be performed out of sequence.

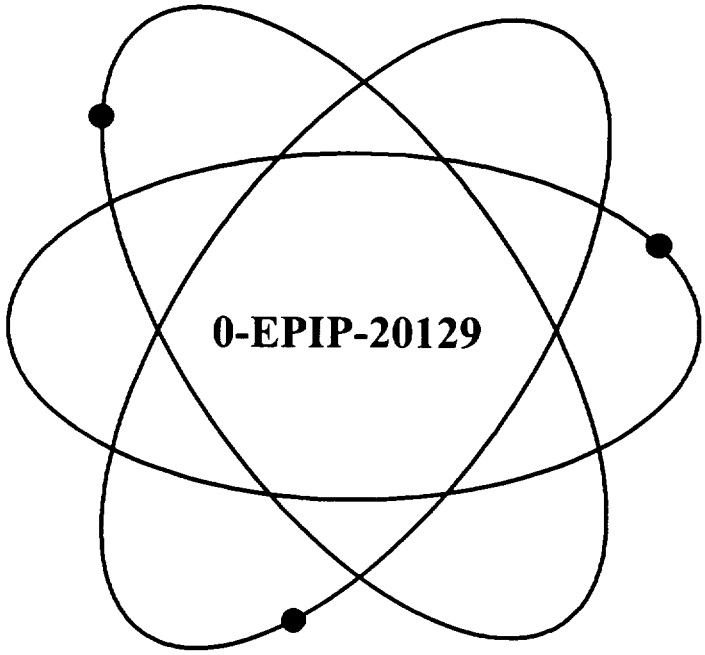
- ☐ Refer to SFI-6307 for information on responding to and preparing the post in the OSC.
- ☐ Ensure keys for the Protected Area and Vital Areas have been obtained.
- ☐ Sign in on the Accountability Board, name and badge number.
- ☐ Ensure personnel are signing in upon entry and recording badge numbers.
- ☐ Obtain the following from the OSC document cabinets:
- ☐ a. OSC Staff Accountability Log (form similar to Attachment 1),
- ☐ b. OSC Access Log (form similar to Attachment 2),
- ☐ c. Key Charge Out Log (form similar to Attachment 3).
- ☐ Accountability information may be obtained by printing out the Accountability Board and taking a head count or by completion of a form similar to Attachment 1.
- ☐ Upon completion of the OSC Staff Accountability Log (form similar to Attachment 1) complete the Security Accountability Sheet (form similar to Attachment 4) and fax or deliver to the Secondary Alarm Station (SAS).
- ☐ Ensure control of access to, and egress from the OSC is maintained by signing personnel in and out using a form similar to Attachment 2.
- ☐ Issue Protected Area and Vital Area keys as directed by the TSC Security Supervisor and maintain accountability using the Key Charge Out Log (form similar to Attachment 3).

Completed by:_____ Date:_____

FINAL PAGE

Florida Power & Light Company

Turkey Point Nuclear Plant



Title:

Emergency Response Team - Radiological Monitoring

Safety Related Procedure	
Responsible Department:	Emergency Preparedness
Revision Approval Date:	1/24/01
Periodic Review Due:	10/27/02

***RTSs** 97-0889P, 99-0155, 00-0450*

W97:JR/sw/daj

LIST OF EFFECTIVE PAGES

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TABLE OF CONTENTS

1.0 PURPOSE

1.1 To direct the response of the emergency response team(s) in performing radiological monitoring in the event of a radiological emergency.

2.0 REFERENCES/RECORDS REQUIRED/COMMITMENT DOCUMENTS

2.1 References

2.1.1 Plant Procedures

1. 0-ADM-600, Radiation Protection Manual
2. 0-EPIP-20111, Re-entry
3. 0-EPIP-20133, Operations Support Center (OSC) Activation and Operation
4. 0-HPS-020, Radiation Surveys
5. 0-HPS-021, Surface Contamination Surveys
6. 0-HPS-022, Airborne Contamination Surveys
7. 0-HPS-026.1, Decontamination of Personnel
8. 0-HPS-090, Inventory of Health Physics Emergency Equipment
9. 0-HPS-096.1, Decontamination of Tools, Equipment, and Areas
10. 0-HPT-016.8, Calibration and Operation of the Eberline Smart Portable Model ESP-2

2.1.2 Regulatory Guidelines

1. 10 CFR 50, Appendix E, Emergency Planning and Preparedness for Production and Utilization Facilities

2.1.3 Miscellaneous Documents

1. Turkey Point Plant Radiological Emergency Plan
2. FPL Position Paper, JNO-HP-93-038, Exposure Limits for Emergency Response Field Team Members

2.2 Records Required

2.2.1 Completed copies of the below listed item(s) constitute Quality Assurance Records and shall be transmitted to QA Records for retention in accordance with Quality Assurance Records Program requirements:

1. None

2.2.2 Upon completion of a drill/emergency, the following completed documents shall be transmitted to the Emergency Preparedness Coordinator for review and retention for archival purposes:

1. All records and logs generated during the performance of this procedure.

3.0 RESPONSIBILITIES

3.1 The OSC Health Physics Supervisor is responsible for:

3.1.1 Providing radiological briefings to emergency response teams.

3.1.2 Ensuring habitability surveys are performed on on-site facilities being used during the emergency.

3.1.3 Maintaining communication with the offsite emergency response teams if they are unable to communicate with TSC.

3.2 The TSC Offsite Team Leader is responsible for:

3.2.1 Maintaining communication with the offsite emergency response teams.

3.2.2 Directing the offsite emergency response teams.

3.2.3 Coordinating the monitoring efforts with the EOF Field Monitoring Coordinator upon activation of the EOF.

3.2.4 Updating the offsite emergency response teams hourly or as conditions change.

3.3 Emergency response team members performing radiological monitoring are responsible for:

3.3.1 Performing radiation surveys and obtaining appropriate samples for radionuclide analysis, as directed.

3.3.2 Establishing and posting appropriate radiation and contamination area boundaries on-site, as directed.

3.3.3 Providing estimates, as directed, concerning the magnitude and extent of radiological hazards.

3.3.4 Monitoring personnel and evaluating personnel radiation exposures.

3.3.5 Maintaining proper records and logs.

4.0 DEFINITIONS

4.1 Committed Dose Equivalent (CDE) - The dose equivalent to organs or tissue that will be received from an intake of radioactive material by an individual during the 50 year period following the intake.

4.2 Deep Dose Equivalent (DDE) - Applies to external whole body exposure is the dose equivalent at a tissue depth of 1 cm. For this procedure, the DDE is that value measured by the TLD or self reading dosimeter.

4.3 Emergency Response Directory (ERD) - The directory containing names and phone numbers of Emergency Response Organization personnel.

4.4 On-site Emergency Response Team - Individuals assigned to perform various activities to mitigate an emergency in the plant, perform re-entry activities, radiological assessment on-site, or damage assessment in the plant.

4.5 Offsite Emergency Response Team - Individuals assigned to perform offsite radiological monitoring.

5.0 **PROCEDURE**

NOTES

- *TLD's and self-reading dosimeters are available from the OSC and also from the Florida City Substation.*
- *The dose limits used for offsite monitoring are 3 rem (DDE) and 25 rem (CDE) to the thyroid.*
- *Thyroid and whole body doses for emergency response teams performing offsite radiological monitoring should be assessed by the emergency response team and verified and recorded by Health Physics personnel in the TSC.*
- *Silver zeolite cartridges, when disposed of, are characterized as a characteristic hazardous waste (DO11), AND if contaminated by radioactive byproduct material, are characterized as a mixed waste.*
- *All Health Physics practices, postings, and limitations shall be adhered to unless otherwise directed by the Emergency Coordinator.*
- *All significant information, events, and actions taken during an emergency situation shall be reported to the Emergency Coordinator.*

5.1 The OSC Health Physics Supervisor or designee shall provide a radiological brief to all emergency response teams.

5.1.1 The radiological brief for on-site emergency response teams shall be performed in accordance with 0-EPIP-20111, Re-entry.

5.1.2 The radiological brief for offsite emergency response teams shall include the following:

1. The maximum allowable dose that may be received by the emergency response team members.
2. The extent of the offsite release or potential of release.
3. Wind direction.

5.2 The OSC Health Physics Supervisor shall, at the approval of the TSC Health Physics Supervisor, ensure that frequent surveys of areas being inhabited are performed (i.e., Control Room, OSC, TSC, CAS, SAS), when radiological conditions have significantly deteriorated (e.g., airborne radioactivity release, high radiation conditions, uncontrolled spread of radioactive contamination).

5.3 The TSC Offsite Team Leader shall direct the offsite emergency response teams by performing the following:

5.3.1 Communication should be established with the offsite emergency response teams using the desktop radio or a portable radio, normally using the Nuc Ops Drill Channel.

5.3.2 Determine the travel route for the offsite emergency response teams by reviewing wind speed, wind direction, and plant release data.

5.3.3 Communicate the travel route to the offsite emergency response teams using survey point locations from the Environmental Survey Team Maps.

5.3.4 Direct the offsite emergency response teams to perform offsite radiological monitoring in accordance with Enclosure 1.

5.3.5 Update the offsite emergency response teams at least once an hour or as conditions change or information becomes available.

5.4 Personnel assigned to perform offsite radiological monitoring should perform the following:

5.4.1 Obtain personal dosimetry from the OSC Dose Recorder or designee.

5.4.2 Obtain necessary keys from the OSC Key Box [i.e., Offsite emergency response team keys (Red Team or Blue Team as assigned).

5.4.3 Obtain the keys from security for the Emergency Response vehicles at the exit window in the Nuclear Entrance Building. Two of the following vehicles shall be available for off-site field monitoring activities: Security Van (4389)or Security SOV (4342) or Security SUV (4346).

5.4.4 If necessary, as determined by the OSC Health Physics Supervisor, obtain survey instrumentation (i.e., RO-2).

5.4.5 As directed by the OSC Supervisor or OSC Health Physics Supervisor, proceed to the Offsite Health Physics Equipment Locker located at the East end of the middle hallway of the Nuclear Processing Building (across from Speakout).

5.4.6 Verify that the Health Physics Emergency Kit(s) seals are intact, otherwise, inventory the Health Physics Emergency Kits.

5.4.7 Check equipment for operability.

5.4.8 Ensure the following equipment is loaded into the vehicle prior to departure from the plant:

1. Emergency survey kit
2. Dose rate meter
3. Contamination monitor
4. ESP-2
5. SPA-9
6. Procedure book
7. Bolt cutters
8. Hand held radio (alternate/backup)
9. Team keys

5.4.9 Establish a communication link with the TSC Offsite Team Leader or, if not successful, with the OSC Health Physics Supervisor.

5.4.10 When directed, perform offsite radiological monitoring in accordance with Enclosure 1.

5.5 Personnel directed to perform on-site radiological monitoring should take air samples in accordance with Enclosure 2.

5.6 Analysis of air samples should be performed in accordance with Enclosure 3.

END OF TEXT

ENCLOSURE 1
(Page 1 of 3)

OFFSITE RADIOLOGICAL MONITORING

The following steps should be performed for offsite radiological monitoring:

NOTES

- *The dose limits for offsite emergency response teams are 3 rem (DDE) and 25 rem (CDE) to the thyroid.*
- *Communication between the offsite emergency response team and the TSC Offsite Team Leader should be maintained using the radios. The radio channel normally used will be labeled* ***Nuc Ops Drill****.*
- *When the Emergency Operations Facility (EOF) is activated and offsite radiological monitoring is ready to be coordinated with the State of Florida, Department of Health - Bureau of Radiation Control, the direction of the FPL offsite emergency response teams should be carried out in conjunction with the EOF Health Physics Manager and Staff.*

1. Estimates of exposure should be calculated by the offsite emergency response teams and communicated to the TSC Offsite Team Leader, or his designee.

2. All significant information, events, and actions taken during an emergency period shall be reported to the TSC Offsite Team Leader for relay to the Emergency Coordinator.

3. Each offsite emergency response team should record all survey results and actions in a monitoring log book.

4. The offsite emergency response teams should try to locate the release plume by performing the following actions:

   a. An open window survey probe (Beta-Gamma) should be used to aid in locating the lower activity levels near the edges of the plume.

   b. Place a radiation survey meter with HP-210 probe set to its lowest scale outside the window of the emergency vehicle and continuously monitor the meter response.

   c. When an increase in background radiation levels is noted, the offsite emergency response team should notify the TSC Offsite Team Leader to report their location, the Beta-Gamma radiation levels, and request permission to proceed further.

   d. If the determination is made that the edge of the plume has been located and the offsite emergency response team is instructed by the TSC Offsite Team Leader to proceed into the plume, the offsite emergency response team may don protective clothing and respiratory protection equipment as directed by the TSC Offsite Team Leader.

ENCLOSURE 1
(Page 2 of 3)
OFFSITE RADIOLOGICAL MONITORING

e. The offsite emergency response team shall roll up the vehicle windows and turn the ventilation fan off or turn the air conditioner to recirculation when entering the plume.

NOTE

Thyroid dose from exposure to radioiodine shall be calculated using the stay time and the air activity. The thyroid dose limit for any individual is 25 rem (CDE). (Reference Enclosure 3).

f. The offsite emergency response team should obtain stay time or projected radioiodine concentrations from the TSC Offsite Team Leader prior to entering the plume.

g. The offsite emergency response team should record the time of entry and exit from the plume in the monitoring log book.

CAUTION

Centerline air samples should not be taken in high Beta-Gamma dose area due to thyroid dose.

5. The centerline of the plume shall be located by finding the area with the highest Beta-Gamma exposure rate using an RO-2 or RO-2A meter.

6. When the offsite emergency response team has determined the location of the centerline, they shall perform the following actions as directed by the TSC Offsite Team Leader:

NOTES

- *Initially, airborne activity samples to determine radioiodine concentrations shall be collected using silver zeolite cartridges. During subsequent sampling, charcoal cartridges may be used. Silver zeolite cartridges should be used in high moisture environments. Additional silver zeolite cartridges are available at the Florida City Substation.*
- *Surveys should be taken at different height gradients to determine if source term is ground deposition, immersion or airborne plume. Ground deposition readings should be taken within three inches of the ground.*

a. Remove the Air Sampler and Ion Chamber (or other Beta-Gamma survey meter) from the vehicle.

b. Shut the vehicle doors to reduce contamination inside.

ENCLOSURE 1
(Page 3 of 3)
OFFSITE RADIOLOGICAL MONITORING

NOTE

The normal sample volume shall be 1 x 10^5 cc. If the gamma exposure rate is greater than 1 rem/hr (DDE), the sample value should be reduced to 1 x 10^4 cc to allow more rapid sampling and reduce the exposure to the offsite emergency response team.

c. Initiate air samples using Enclosure 2 of this procedure.

d. Perform open and closed window surveys of affected area to determine the beta and gamma dose rates.

NOTE

It may be necessary to exit the plume before using the phone or radio if communication cannot be performed while the offsite emergency response team is wearing respirator equipment.

e. Notify the TSC Offsite Team Leader, or his designee, of the centerline location and the dose rate results.

7. The methodology for obtaining air samples shall be determined by the TSC Offsite Team Leader or his designee, based upon plume location, radiological field data, and ALARA considerations.

8. As soon as the air sample(s) is obtained, notify the TSC Offsite Team Leader, or his designee, and exit the plume.

9. Proceed to an area outside the plume as directed by the TSC Offsite Team Leader, or his designee.

10. Perform analysis of the air sample using Enclosure 3 of this procedure.

11. The results of the air sample analysis shall be relayed to the TSC Offsite Team Leader, or his designee by the offsite emergency response team.

NOTE

To determine thyroid dose, use the airborne I-131 concentration value (Enclosure 3) and the stay time in the plume. Then insert these values in the Thyroid Dose Calculations Chart (Enclosure 4 of this procedure and also located in the HP Survey Kit).

12. The offsite emergency response team shall calculate their thyroid dose and report the dose to the TSC Offsite Team Leader or his designee.

ENCLOSURE 2
(Page 1 of 2)

AIR SAMPLING

The following steps should be performed when taking air samples:

CAUTIONS

- ***Care should be taken to avoid cross contamination of air sample filter and cartridge.***
- ***If using the 12 volt DC air sampler, then ensure the vehicle is running, and the correct polarity is used when connecting the battery leads; the red lead is positive and the black lead is negative.***
- ***Missing or deteriorated O-rings can cause filter bypass flow resulting in significant underestimation of airborne activity.***

NOTE

Offsite air samples should usually be taken with a 12 volt DC air sampler.

1. If using the 12 volt DC air sampler, then attach the sampler battery leads to the battery post in the emergency vehicle.

2. For initial air sampling, place a particulate filter upstream of a silver zeolite iodine sampling cartridge in the air sample filter head. Ensure that arrow on cartridge is pointing in the direction of the flow.

NOTE

If using the 12 volt DC air sampler, then a 12 volt DC Sampler Flow Rate Chart, attached to the sampler, is provided to aid in calculating the sample time.

3. Use flow chart provided to determine sample times required to obtain desired volume; normal volume required will be 1×10^5 cc unless otherwise instructed by the TSC or the OSC.

ENCLOSURE 2
(Page 2 of 2)

AIR SAMPLING

NOTE

The area should be surveyed to verify that the background levels will not affect the sample analysis.

4. The air samples shall be analyzed in a low background area outside of the plume.

5. Retain the samples in separate whirlpaks labeled with location, volume, sample date, and time.

NOTE

Silver zeolite cartridges when disposed of, are characterized as a characteristic hazardous waste (DO11), AND if contaminated by radioactive byproduct, are characterized as a mixed waste.

6. Contact the HP Radwaste Supervisor for disposal of silver zeolite cartridges.

ENCLOSURE 3
(Page 1 of 3)

ANALYSIS OF AIR SAMPLE

The following steps should be performed for analysis of air samples:

NOTES

- *The Eberline ESP-2 counting system will be used by the emergency response team(s) to analyze the samples for radioactive iodine (I-131).*
- *The Eberline ESP-2 counting system, consists of: a calibrated ESP-2 meter, a cable (MHV-MHV), a shielded SPA-9 scintillation detector (or equivalent) and a BA-133 check source.*

1. Perform a background and source check of the instrument by performing the following steps:

   a. Verify the ESP-2 is set for PHA count.

   b. Place the probe and shield on a level, stable surface.

   c. Press the reset button and obtain a one minute background count.

   d. Record the data.

   e. Place the BA-133 check source's active surface (normally surface not engraved) in contact with the end of the detector probe and press reset to obtain a one minute source count.

   f. Record the data.

   g. Determine the net count rate for the source by subtracting the background CPM from the source CPM.

   h. Verify that the source count rate is within 20 percent of source value indicated on the instrument.

      (1) If the meter does not fall within 20 percent, contact the TSC Offsite Team Leader or OSC Health Physics Supervisor, as appropriate, for instructions on obtaining an operable meter.

ENCLOSURE 3
(Page 2 of 3)
ANALYSIS OF AIR SAMPLE

2. Count the sample by performing the following steps:

   a. Press the reset button and obtain a one minute background count.

   b. Record the results.

CAUTION

Take appropriate steps to prevent cross contamination of probe and instrument.

   c. Place the silver zeolite cartridge in contact with the end of the detector probe with the flow arrow on the cartridge pointing away from the probe.

   d. Press the reset buttons and obtain a one minute sample count with the probe directly over the cartridge.

   e. Record the data.

NOTE

The particulate sample may be counted together with the silver zeolite cartridge to measure any iodine that may have been filtered due to a chemical bond between iodine and particulate activity. The particulate filter should be placed between the probe and the silver zeolite cartridge, if this analysis is performed. This analysis will only be performed as requested by the OSC Health Physics Supervisor or the TSC Offsite Team Leader, as appropriate.

   f. Determine the net count rate on the sample by subtracting the background CPM from the sample CPM.

   g. Use the completed Form HP-7V.5, ESP-2/SPA-9 Graph, provided with the emergency kit, or the formula in Step 3(c) below, to obtain a value for the iodine concentration in µCi/cc as a function of net corrected counts per minute.

3. Perform a particulate activity analysis of the particulate filter alone by performing the following steps:

   a. Remove the filter from the whirlpak.

ENCLOSURE 3
(Page 3 of 3)

ANALYSIS OF AIR SAMPLE

NOTE

If high sample activity causes the HP-210 probe and count rate meter to exceed the highest scale (Off Scale Reading), survey the particulate filter with a Gamma Dose Exposure Meter and report the results to the TSC Offsite Team Leader, or his designee.

b. Place filter approximately one half inch below the window of an HP-210 Beta-Gamma probe connected to a count rate meter.

c. Calculate the particulate activity using the following formula:

$$\text{Particulate Air Activity } (\mu Ci/cc) = \frac{(\text{Sample Net CPM}) \times (4.5 \times 10^{-7})}{(\text{Volume (cc)} \times \text{efficiency of counting instrument}) \times (0.9)}$$

4. Retain all air samples in a location that minimizes interference with counting instrumentation and away from personnel to maintain exposure ALARA.

5. The TSC Offsite Team Leader or the OSC Health Physics Supervisor, as appropriate, shall be informed of the results of all air sample analyses.

6. Further analysis of the offsite air samples may be performed at the following facilities in accordance with the standard operating procedure for that particular counting facility:

   a. The Health Physics Counting Laboratory (on-site)

   b. The Radiochemistry Laboratory (on-site)

   c. Other facility using the portable multichannel analyzer

7. Silver zeolite cartridges shall be disposed of as follows:

   a. **IF** non-radioactive, **THEN** handle the cartridge as a characteristic hazardous waste.

   b. **IF** radioactively contaminated, **THEN** handle the cartridge as a mixed waste.

ENCLOSURE 4
(Page 1 of 1)
THYROID DOSE CALCULATIONS (I-131 EQ)

The value under the stay time = total thyroid dose in CDE

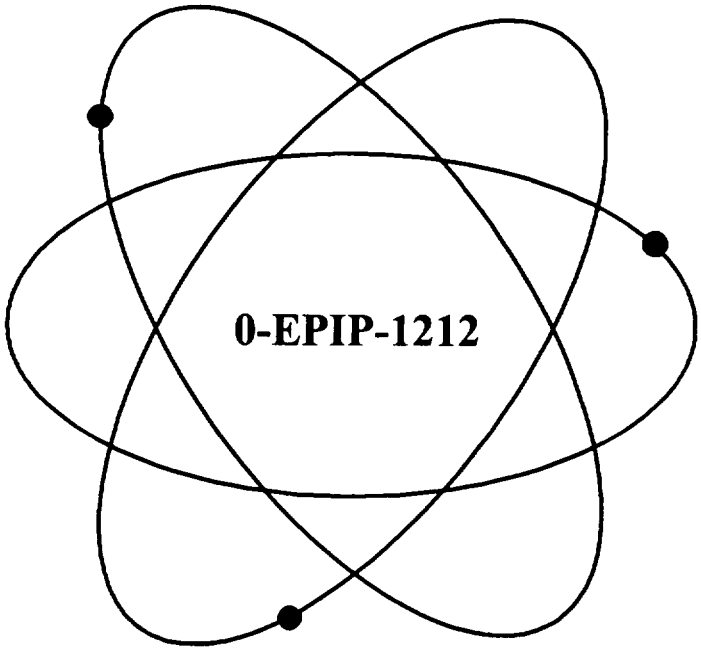
I-131 μC/CC	10 min	20 min	30 min	40 min	50 min	1 hour
1.0E-07	29	57	86	115	143	172
2.0E-07	57	115	172	229	287	344
3.0E-07	86	172	258	344	430	516
4.0E-07	115	229	344	458	573	688
5.0E-07	143	287	430	573	716	860
6.0E-07	172	344	516	688	860	1032
7.0E-07	201	401	602	802	1003	1204
8.0E-07	229	458	688	917	1146	1375
9.0E-07	258	516	774	1032	1290	1547
1.0E-06	287	573	860	1146	1433	1719
2.0E-06	573	1146	1719	2292	2866	3439
3.0E-06	860	1719	2579	3439	4298	5158
4.0E-06	1146	2292	3439	4585	5731	6877
5.0E-06	1433	2866	4298	5731	7164	8597
6.0E-06	1719	3439	5158	6877	8597	10316
7.0E-06	2006	4012	6018	8024	10030	12035
8.0E-06	2292	4585	6877	9170	11462	13755
9.0E-06	2579	5158	7737	10316	12895	15474
1.0E-05	2866	5731	8597	11462	14328	17194
2.0E-05	5731	11462	17194	22925	28656	34387
3.0E-05	8597	17194	25790	34387	42984	51581
4.0E-05	11462	22925	34387	45849	57312	68774
5.0E-05	14328	28656	42984	57312	71640	85968
6.0E-05	17194	34387	51581	68774	85968	103161
7.0E-05	20059	40118	60177	80236	100295	120355
8.0E-05	22925	45849	68774	91699	114623	137548
9.0E-05	25790	51581	77371	103161	128951	154742
1.0E-04	2.9E+04	5.7E+04	8.6E+04	1.1E+05	1.4E+05	1.7E+05
2.0E-04	5.7E+04	1.1E+05	1.7E+05	2.3E+05	2.9E+05	3.4E+05
3.0E-04	8.6E+04	1.7E+05	2.6E+05	3.4E+05	4.3E+05	5.2E+05
4.0E-04	1.1E+05	2.3E+05	3.4E+05	4.6E+05	5.7E+05	6.9E+05
5.0E-04	1.4E+05	2.9E+05	4.3E+05	5.7E+05	7.2E+05	8.6E+05
6.0E-04	1.7E+05	3.4E+05	5.2E+05	6.9E+05	8.6E+05	1.0E+06
7.0E-04	2.0E+05	4.0E+05	6.0E+05	8.0E+05	1.0E+06	1.2E+06
8.0E-04	2.3E+05	4.6E+05	6.9E+05	9.2E+05	1.1E+06	1.4E+06
9.0E-04	2.6E+05	5.2E+05	7.7E+05	1.0E+06	1.3E+06	1.5E+06
1.0E-03	2.9E+05	5.7E+05	8.6E+05	1.1E+06	1.4E+06	1.7E+06

Notify Team Leader of results of thyroid exposure.

FINAL PAGE

Florida Power & Light Company

Turkey Point Nuclear Plant



Title:

Emergency Operations Facility (EOF) Activation and Operation

Safety Related Procedure	
Responsible Department:	Emergency Preparedness
Revision Approval Date:	2/16/01
Periodic Review Due:	9/20/04

***RTSs** 96-0772P, 96-1431, 98-0670, 00-0248P, 00-465P*

*/MR/bsc/ev/ev

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1.0 PURPOSE

1.1 This procedure identifies the steps involved for activation and operation of the Turkey Point Emergency Operations Facility (EOF).

1.2 Individuals specifically designated to perform assignments identified in this procedure are listed in the Turkey Point Emergency Response Directory (ERD).

2.0 REFERENCES/RECORDS REQUIRED/COMMITMENT DOCUMENTS

2.1 References

2.1.1 Final Safety Analysis Report (FSAR)

1. Section 12

2.1.2 Plant Drawings

1. Turkey Point Units 3 and 4 as-built drawings

2.1.3 Procedures

1. 0-EPIP-1102, Duties of the Recovery Manager
2. 0-EPIP-1211, Duties of the Corporate Communications Emergency Response Organization
3. 0-EPIP-1302, PTN Core Damage Assessment
4. 0-EPIP-20126, Off-Site Dose Calculations

2.1.4 Regulatory Guidelines

1. 10 CFR 26, Fitness for Duty

2.1.5 Miscellaneous Documents

1. Turkey Point Radiological Emergency Plan
2. Turkey Point Nuclear Plant Recovery Plan
3. Turkey Point Plant Physical Security Plan
4. Turkey Point Safeguards Contingency Plan
5. Nuclear Division Policy, NP-400
6. Turkey Point Emergency Response Directory (ERD)
7. Meteorology and Atomic Energy 1968

2.2 Records Required

2.2.1 Completed copies of the below listed item(s) constitute Quality Assurance Records and shall be transmitted to QA Records for retention in accordance with Quality Assurance Records Program requirements.

1. None

2.2.2 Collect the following material and forward to the Emergency Preparedness Coordinator for review and/or archival:

1. All attachments to this procedure or similar forms, worksheets, or reports.
2. Logs of emergency events and actions.

2.3 Commitment Documents

2.3.1 QAS-EMP 90-1, Finding 4, April 6, 1990

2.3.2 QAS-EMP 89-3, Finding 4, February 27, 1990

2.3.3 NRC IR 92-12; EW 92-12-02, May 6, 1992

3.0 RESPONSIBILITIES

3.1 The Recovery Manager is responsible for:

3.1.1 Activating the EOF in accordance with 0-EPIP-1102, DUTIES OF THE RECOVERY MANAGER.

3.1.2 Declaring the EOF operational in accordance with 0-EPIP-1102, DUTIES OF THE RECOVERY MANAGER

3.2 The Emergency Security Manager (ESM) is responsible for:

3.2.1 Access and security of the EOF and ENC.

3.2.2 Assuring all requirements of 10 CFR Part 26, Fitness for Duty rules, are met by persons reporting for duty in pre-assigned EOF positions.

3.2.3 Maintaining liaison with law enforcement agencies.

3.2.4 Coordinating with on-site security personnel to assist in security functions as required.

3.2.5 Assuring prompt access to the TSC/EOF is granted for NRC responders.

3.2.6 Tracking the status of injured site personnel transported to off-site medical facilities.

3.2.7 Providing advice to the Recovery Manager in relation to security matters during a plant emergency.

3.3 The EOF Supervisor is responsible for:

3.3.1 Coordinating and verifying facility operational readiness.

3.3.2 Ensuring accountability within the EOF is maintained.

3.3.3 Ensuring adequate operational and technical support for the RM.

3.3.4 Overseeing communication to the State, counties and NRC to ensure notifications are performed in the required times.

3.3.5 Ensuring plant data is provided to the facility personnel via ERDADS, status boards, communicators or TV monitors.

3.3.6 Providing direction to the EOF Administrative Supervisor for support to the EOF staff.

3.3.7 Ensuring equipment is available and functional to support the event.

3.4 The RM Operations Advisor is responsible for:

3.4.1 Supporting the RM in the development of Protective Action Recommendations.

3.4.2 Following plant status by means of EOF TSC Communicator, TV system, or other source.

3.4.3 Ensuring facility awareness of current EAL.

3.4.4 Routinely reviewing EOPs as necessary.

3.4.5 Assisting the RM with preparation and conduct of briefings.

3.4.6 Acting as a relief to the RM when the RM exits the area.

3.4.7 Maintaining the RM logbook.

3.5 The Technical Assistant to the RM is responsible for:

3.5.1 Determining present and potential Emergency Action Level Status.

3.5.2 Updating the 10-mile EPZ map with the Protective Actions issued.

3.5.3 Assisting the HRD Communicator with the completion of the state notification forms as necessary.

3.5.4 Assisting the RM with preparation and conduct of briefings.

3.5.5 Acting as a relief to the RM when the RM exits the area.

3.5.6 Maintaining a log of activities.

3.6 The Administrative Supervisor is responsible for:

3.6.1 Providing administrative support such as faxing, photocopying, distributions, etc.

3.6.2 Ensuring operability of EOF equipment.

3.6.3 Ensuring adequate measures are in place to meet personnel needs such as food, water, etc. both at the EOF and at the plant.

3.6.4 Arranging hotel reservations and car rentals for incoming personnel, as necessary.

3.6.5 Ensuring minutes of formal briefings are taken to record pertinent information discussed.

3.7 The Health Physics Manager (HPM) / Dose Assessment Coordinator is responsible for:

3.7.1 Ensuring Dose Assessment functions are being performed.

3.7.2 Providing radiological data to the RM and assist with briefings, as necessary.

3.7.3 Ensuring Field Teams are tracked and coordinated between the Department of Health – Bureau of Radiation Control.

3.7.4 Providing radiological information to support the Emergency News Center.

3.7.5 Ensuring communications with the NRC via the HPN are adequate.

3.7.6 Ensuring radiological data is posted on the boards.

3.7.7 Maintaining contact and comparing Dose Assessment results with the TSC.

3.8 The Emergency Technical Manager (ETM) is responsible for:

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

3.8.2 Performing core damage assessments and providing results to the Recovery Manager.

3.8.3 Maintaining communications with the TSC.

3.9 The Emergency Control Officer (ECO) is responsible for:

3.9.1 Maintaining awareness of plant conditions, media interest, and news releases.

3.9.2 Ensuring support is available for offsite agencies and Corporate Communications.

3.9.3 Performing a technical spokesperson function.

3.9.4 Approving press releases.

3.10 The Nuclear Division Duty Officer (NDDO) is responsible for:

3.10.1 Remaining available via either telephone or pager contact for the entire duty period.

3.10.2 Functioning as the ECO until a designated ECO is obtained and a proper turnover has been given.

3.10.3 Serving as technical advisor and INPO interface.

4.0 DEFINITIONS

4.1 None.

5.0 PROCEDURE

NOTES

- *To assure timely activation, EOF Responders shall be ready to assume their duties as soon as practical upon entering the EOF.*
- *To ensure all position responsibilities are completed, appropriate ERO staff shall complete applicable check-off attachments.*

5.1 Activation of the EOF

5.1.1 When notified, EOF emergency responders are to report to the facility as quickly as possible.

5.1.2 The first responders to the EOF should do the following:

1. Upon arrival at the EOF, unlock the double entrance door to the facility by use of corporate ID or assistance from General Office (GO) security operations personnel. The door should than be blocked opened to allowed access to responders arriving thereafter.

2. Acquire a copy of Attachment 8, EOF First Responder Check-off Sheet from the Document Control File to ensure all required activities are completed.

3. Ensure all steps in Attachment 8, EOF First Responder Check-off Sheet have been completed and initialed. Forward the completed Attachment 8 to the Emergency Preparedness Coordinator upon conclusion of the event.

5.1.3 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 EOF.

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

5.2 The following EOF positions shall acquire a copy of their associated check-off attachment and ensure all steps are completed and initialed, all attachments are signed and dated and all completed attachments are forwarded to the Emergency Preparedness Coordinator at the conclusion of the event:

NOTE

EOF personnel can acquire associated attachments from the Document Control File.

END OF TEXT

FIGURE 1
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EOF DIRECTIONS

DIRECTIONS TO PTN EOF

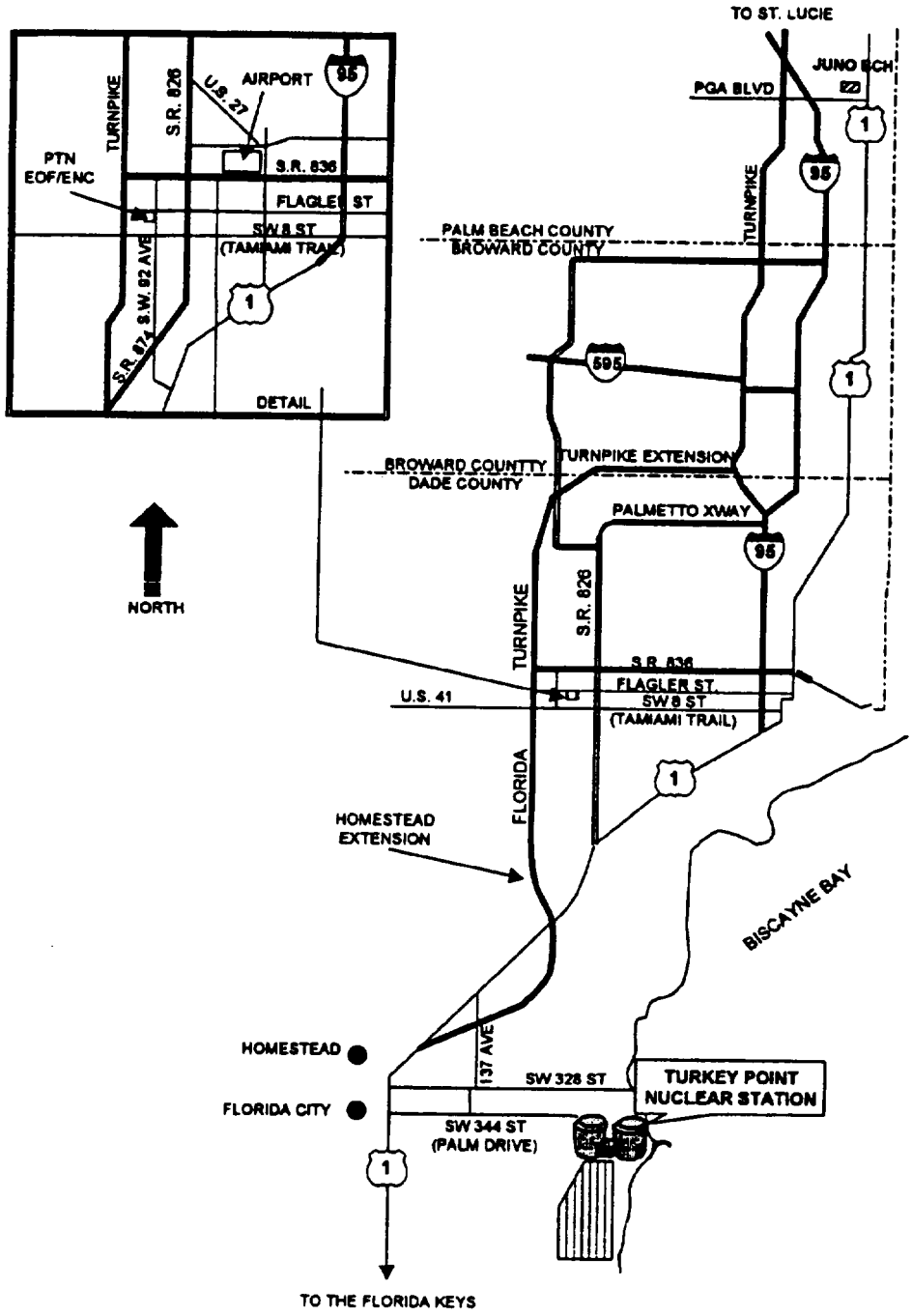

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FIGURE 2
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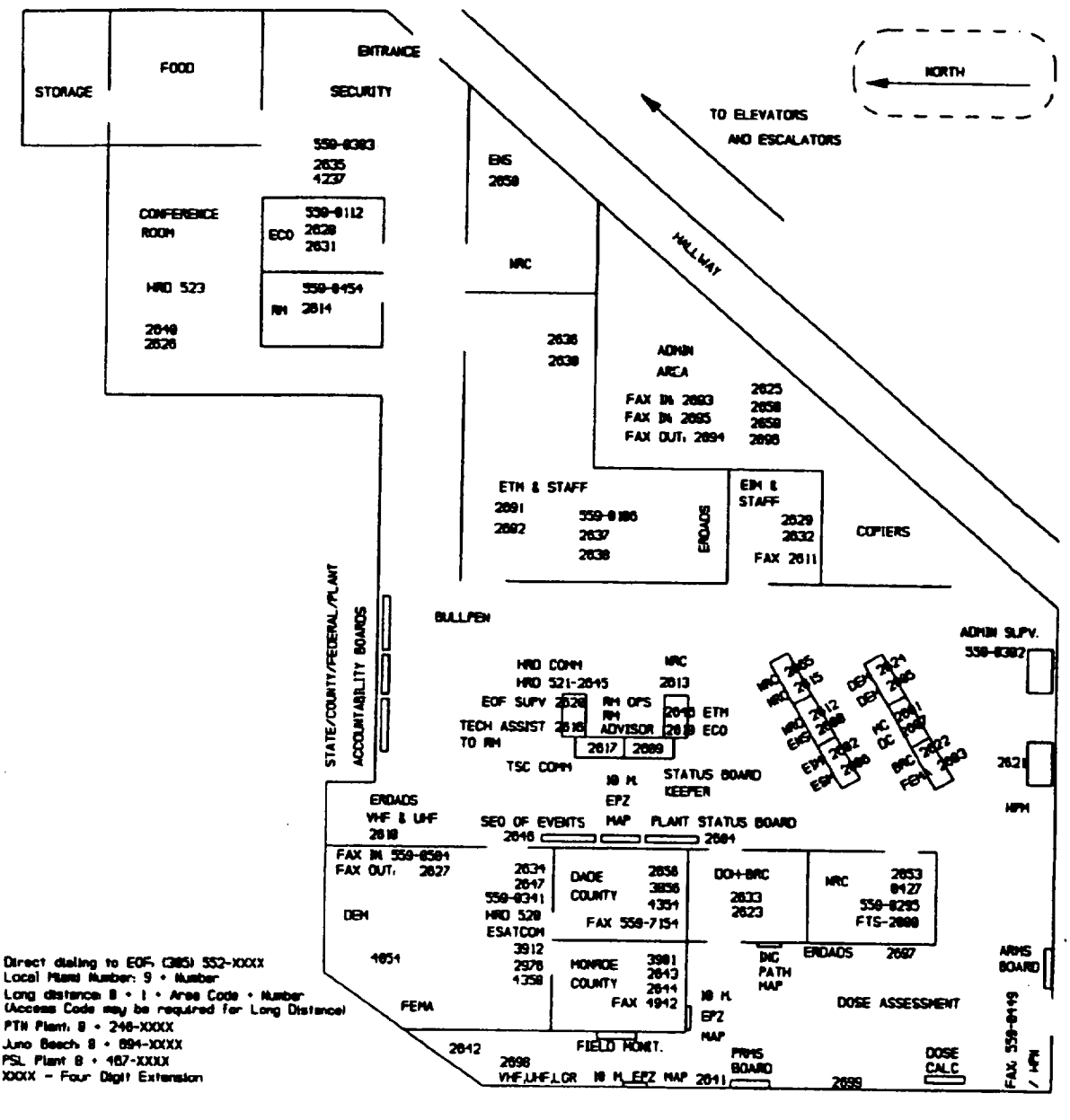
EOF LAYOUT



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ENCLOSURE 1
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DIRECTIONS TO STATE EOC IN TALLAHASSEE

Directions :

From Tallahassee Regional Airport (TLH):

- Take Capitol Circle EAST, past Rt. 319 intersection to Centerview Drive (approximately 12 miles)
- At office complex on left (Koger Center), turn left on Centerview Drive
- Turn right into first parking lot. Located on lst floor, southeast side of building you will be facing the State EOC as you enter the parking lot.

ENCLOSURE 2
(Page 1 of 2)

SIMU-FAX INSTRUCTIONS

1. In the Admin Area of the EOF, locate the computer with the scanner attached.
2. Ensure computer is on.
3. Login using your normal computer ID (SLID) and your password.
4. Once logged in, locate the fax icon located on the bottom right of the task bar.
5. Click on **fax machine** and denote the printer as \JBXSA58/HPFAX or Rightfax printer.
6. Click on **fax machine** and then click on **FaxUtil.**
7. If prompted to login, use State Notification-Don Mothena without a password. This will get you the phonebook with all of the drill/emergency related fax machines. If logged in on your own SLID, access the top right scroll bar and change your phonebook to State_Notificaiton, Don Mothena.
8. To fax, click on menu item **Fax** and then **New**.
9. The fax screen will open.
10. Click on **Phonebook.**
11. To fax to All Points, click the block to the left of ALL_STATE_NOT, then click **OK.**
12. After choosing the fax designation, you will be returned to the fax screen.
13. Click on the scan button and ensure the document to be sent is in the scanner.
14. Enter the number of pages you will be scanning in the designated block.
15. Click on scan.
16. You will be returned to the previous screen.
17. Ensure that the cover sheet option at the bottom left of the screen does not have a check in it (cover sheets are not desired).
18. Click on the **Send** button (top right).
19. You will be returned to the main screen where In-process faxes will show as line items.

ENCLOSURE 2
(Page 2 of 2)

SIMU-FAX INSTRUCTIONS

20. Once the fax has been delivered, you can see it by choosing **List** from the Menu Bar, then clicking on **Sent Fax List (Outbound).** Only completed faxes will be listed here. If the fax remains in the in-process page, that means it has not been delivered. Attempts to continue delivering the fax will continue, if you note that a certain fax has not been delivered, you should attempt to confirm the fax number to that location.

21. Individuals may be added to the list as needed or just entered for a one time fax, if needed. To enter the fax one time, click on **fax** and **new**, put the individual's name and fax number in the appropriate location, scan your document and click **send**.

ENCLOSURE 3
(Page 1 of 1)

TYPICAL DISTRIBUTION OF INFORMATION IN THE EOF

NOTE

This is a typical distribution of information at the EOF. The distribution may be changed as necessary due to organizational needs and circumstances.

Place all distributions under appropriate phone in bullpen or in incoming trays in offices.

OFFSITE DOSE PROJECTION REPORT:
Recovery Manager (bullpen)
Emergency Control Officer (bullpen)
State/County Communicator (bullpen)
Emergency Notification System (ENS) Communicator (bullpen)
Emergency Information Manager (bullpen)
NRC (bullpen)
NRC (office)
Department of Health - Bureau of Radiation Control (bullpen)
State DEM (office)
Dade County (office)
Monroe County (office)

ERDADS PRINTOUTS:
Plant Parameter Status Board Keeper (bullpen)
Emergency Control Officer (bullpen)
Emergency Information Manager (bullpen)
Dose Assessment Coordinator (office) [should be provided with a color original]
Emergency Technical Manager (bullpen)
Emergency Technical Manager's Staff (office)

FLORIDA NUCLEAR PLANT EMERGENCY NOTIFICATION FORMS AND NRC EVENT NOTIFICATION WORKSHEETS:
Recovery Manager (bullpen)
Emergency Control Officer (bullpen)
State/County Communicator (bullpen)
ENS Communicator (bullpen)
Emergency Information Manager (bullpen)
NRC (bullpen)
NRC (office)
Department of Health - Bureau of Radiation Control (bullpen)
State DEM (office)
Dade County (office)
Monroe County (office)

NEWS RELEASES:
Recovery Manager (bullpen)
Dose Assessment Coordinator (office)
NRC (bullpen)
NRC (office)
Department of Health - Bureau of Radiation Control (bullpen)
State DEM (office)
Dade County (office)
Monroe County (office)

*/MR/bsc/ev/ev

ENCLOSURE 4
(Page 1 of 8)

ERDADS DATA POINT DESCRIPTIONS

NOTES

- *The point you type in will become the point being monitored, until the display is cleared or changed to a different one.*
- *Remember that digital points are either a zero (0) or a one (1) (ON or OFF).*
- *When looking at valve positions, be aware that the point name for most Motor Operated Valves (MOVs) contains a **O** or **C** in the name to indicate whether it is the **OPEN** or the **CLOSED** limit switch; for example, MOV864AO-3. The valve is MOV-864A on Unit 3 and it is the **OPEN** limit switch. This means that when this point is ON or is 1, the valve is fully open.*
- *For some valves, ERDADS generates a **calculated analog**, e.g., MOV864A-3 is an analog point that can only have the value of 0, 1, 2, or 3. These valves are derived from the four possible combinations of the OPEN and CLOSED limit switches.*

To monitor an analog and digital plant parameter, using the Point Value (PTV) display:

1. Type **PTV**.
2. Press <DSPLY>.

NOTE

The display is divided into two areas: The left side displays monitored analog points; the right side digital points. The <TAB-> will move the cursor sequentially through the entry areas alternating between the analog and digital side of the screen.

3. Position the cursor using the <TAB+> and <TAB-> to an analog point (on the left), or to a digital point (on the right).
4. Type in a desired analog (or digital) point.
5. Press <ENTER>.

ENCLOSURE 4
(Page 2 of 8)
ERDADS DATA POINT DESCRIPTIONS

The following data point descriptions for Turkey Point Plant correspond with the data normally tracked on the Operations Parameters Status Board. Consult ERDADS Manual, as necessary, for verification of point ID, point names or description information.

POINT DESCRIPTION	PT ID	POINT NAME	TYPE CALCULATION	NOTES
Avg. HL Temp	885	THAVTEMP-3	Average	The average of the three loop average Th.
RCS Pressure WR	759	RCSAVPRES-2	Average	The RCS pressure is the average of the available valid channels. If one channel is good, then its value will be used. If both inputs are invalid, an average of the two channels will occur, and the result will be flagged as bad, PT404 and PT406 monitor the hot leg pressure of RCS loops B and A respectively.
Pressure Avg Level	785	PRZ-AVLVL-3	Average	The pressurizer average level is calculated by the redundant sensor algorithm. At least two channels must agree within 8% of the calculated rejection value for a valid output. The Instrument range of 0-100% level is equivalent to 600-9050 gls. Transmitters are hot calibrated at 650 degrees F. Protection signals include: High level trip at 91% (2/3), a low low level alarm at 6%. Controls include: heaters off and letdown isolation at 14% high level alarm and heater on at LVL program + 5%, and low level alarm at LVL program-5%.
Charging Flow	439	FT122-3		Charging flow is provided by three electrically driven positive displacement pumps. The discharge is to a common header (flow is monitored on the common header). Flow is directed to a Loop A cold leg, PZR aux spray or Loop C hot leg. Charging flow also provides reactor coolant pump seal water flow. Charging flow rate is controlled by PZR level.
Core Exit Temperature	787	CET-3	Highest	CET-3 is the highest of the two calculated representative CET temperature (QSPDS Train A or B). The calculated representative CET temperature is the average of the highest eight valid CET temperatures for that train. Note: Train A has 26 CETS, Train B has 25.

ENCLOSURE 4
(Page 3 of 8)

ERDADS DATA POINT DESCRIPTIONS

POINT DESCRIPTION	PT ID	POINT NAME	TYPE CALCULATION	NOTES
RCS Subcooling	854	SMM1LO-3	Lowest	The subcooling saturation margin is the lowest of two (QSPDS Train A and B) calculated RCS saturation margins in degrees fahrenheit. The RCS subcooling saturation margin is calculated using the highest RCS loop temperature.
Reactor Upper Head Level	768	RXHDLVLLO-3	Lowest	Reactor head level consists of the top two sensors (#1 and #2) of an eight sensor probe. The probe extends from the top of the head to the top of the fuel alignment plate. Each sensor consists of a heated and unheated thermocouple. The temperature difference between the thermocouples is used to detect a void. Sensor one is 178.8 inches above active fuel; indicated head level when uncovered is 33%, sensor two is 141.7 inches above active fuel; indicated head level when uncovered is 0%.
Reactor Plenum Water Level	895	RNPLLVLLO-3	Lowest	Reactor plenum levels consists of the lower six sensors of an eight sensor probe. Each sensor consists of a heated and unheated thermocouple. The temperature difference between the thermocouple is used to detect a void. Sensor numbers 3, 4, 5, 6, 7 and 8, when uncovered, indicate respectively 81%, 58%, 40%, 28%, 16%, and 0% plenum level. Each sensor's location above active fuel is respectively 127.6, 98.4, 69.1, 54.6, 40.1, and 23.7 inches. Note: sensors 5, 6 and 7 correspond to the top, center and bottom of the outlet nozzle, respectively.
RHR System Flow	437	FT605-3		FT605 measures the residual heat removal (RHR) flow. RHR is provided by two RHR pumps. Each pump discharges to its own associated heat exchanger. Flows from the heat exchanger are combined into a single header for penetration into containment. Flow in this line is measured by FT-605. Flow is then directed to Loops A, B and C cold legs.

ENCLOSURE 4
(Page 4 of 8)

ERDADS DATA POINT DESCRIPTIONS

POINT DESCRIPTION	PT ID	POINT NAME	TYPE CALCULATION	NOTES
HHSI Flow to Bit to Cold Legs	452	FT943		FT943 measures HHSI flow to loops A, B and C cold legs. HHSI is provided by two electrically driven pumps. The water supply is the respective unit's RWST (322K gls). The discharge of each pump is directed to its own header. Note: The Unit 3 and 4 RWST and discharge headers are normally cross-connected.
Containment Temperature	769	CTMTVTMP-3	Average	The containment temperature is the average of three channels (TE6700, TE6701, and TE6702). Each channel uses a 200 ohm platinum RTD. All channels are located on the 58 ft. elevation at 120 degree intervals. TE6700 is near the B normal containment cooler, TE6701 is near the 3C normal containment cooler, and TE6702 is near the 3C emergency containment filters.
Containment Pressure	880			Note: Code chooses between current low or high range instrument values.
Containment Pressure	865			Note: Code chooses between current low or high range instrument values.
CTMT Hydrogen Concentration	788	CTMTG2CONC-3	Highest	Two channels of instrumentation are provided. The highest of which is being reported. A % hydrogen signal is developed by comparing the thermal conductivity of reference sample with the conductivity of a sample after removing any hydrogen. The system provides a high hydrogen alarm at 7.5%, low and high cell failure, calibration gas low pressure, reagent gas low pressure and low analyzer flow alarms.
Steam Gen. A Wide Range Level	375	LT477-3		The wide range instrument provides for 515 inches of level indication. This is equivalent to 750 gallons at 0% level and 27500 gallons at 100% level. The conversion from % to gallons is (0 to 51.9%, each % = 187.5 gls); (52 to 72.9%, each % = 273.8 gls); (73 to 100%, each %= 416.6 gls). Note: This instrument is cold calibrated.

ENCLOSURE 4
(Page 5 of 8)

ERDADS DATA POINT DESCRIPTIONS

POINT DESCRIPTION	PT ID	POINT NAME	TYPE CALCULATION	NOTES
Steam Gen B Wide Range Level	379	LT487-3		The wide range instrument provides for 516 inches of level indication. This is equivalent to 750 gls at 0% level and 27500 gls. at 100% level. The conversion from % to gallons is (0 to 51.9%, each % = 187.5 gls); (52 to 72.9%, each % = 273.8 gls); (73 to 100%, each % = 416.6 gls). Note: This instrument is cold calibrated.
Steam Gen. C Wide Range Level	383	LT497-3		This wide range instrument provides for 516 inches of level indication. This is equivalent to 750 gls at 0% level and 27500 gls at 100% level. The conversion from % to gallons is (0 to 51.9%, each % = 187.5 gls); (52 to 72.9%, each % = 273.8 gls); (73 to 100%, each % = 416.6 gls). Note: This instrument is cold calibrated.
Steam Generator Pressure A	806	SGA-AVPRES-3	Average	The S/G pressure is an average calculated by the redundant sensor algorithm. At least two channels must agree within 120 psi of the calculated rejection value for a valid output. The sensing line for S/G pressure is located on the steam header on the S/G side of the MSIVs. These channels provide for the steam break ESFAS at (S/G press) = 1000 psi of (Header Press) (2/3 for 1/3 S/G) and low S/G pressure ESFAS at = 614 psi (2/3 S/G on protection set one only). Note: S/G press provides compensation to the steam flow channels.
Steam Gen. Pressure B	808	SGB-AVPRES-3	Average	The S/G pressure is an average calculated by the redundant sensor algorithm. At least two channels must agree within 120 psi of the calculated rejection value for a valid output. The sensing line for S/G pressure is located on the steam header on the S/G side of the MSIVs. These channels provide for the steam break ESFAS at (S/G press) = 1000 psi of (Header Press) (2/3 for 1/3 S/G) and low S/G pressure ESFAS at = 614 psi (2/3 S/G on protection set one only). Note: S/G press provides compensation to the steam flow channels.

ENCLOSURE 4
(Page 6 of 8)

ERDADS DATA POINT DESCRIPTIONS

POINT DESCRIPTION	PT ID	POINT NAME	TYPE CALCULATION	NOTES
Steam Generator Pressure C	810	SGC-AVPRES-3	Average	The S/G pressure is an average calculated by the redundant sensor algorithm. At least two channels must agree within 120 psi of the calculated rejection value for a valid output. The sensing line for S/G pressure is located on the steam header on the S/G side of the MSIVs. These channels provide for the steam break ESFAS at (S/G press) = 1000 psi of (Header Press) (2/3 for 1/3 S/G) and low S/G pressure ESFAS at = 614 psi (2/3 S/G on protection set one only). Note: S/G press provides compensation to the steam flow channels.
Containment Radiation (WR)	790	CTMHRADW-3	Highest	CTMHRADW is the highest of the two input channels RAD6311A and RAD6311B. Both channels used ion chamber detectors. RAD6311 is located inside containment on the 25 ft elevation near the personnel hatch. RAD6311B is located at about the 64 ft. elevation of the S/G shield wall near the pressurizer arms channel R-2. These channels have two high alarm setpoints. On a high alarm, an annunciator will be actuated.
Refueling Water Tank Level	844	RWSTLOLVL-3	Lowest	Each RWST level loop consists of a Rosemount DP transmitter and Foxboro modules to provide alarm and indication functions. Alarms provided are: low-low level at 60,000 gallons, low level at 155,000 gallons. Tech Spec level at 322,000 gallons, and high level at 333,000 gallons.

ENCLOSURE 4
(Page 7 of 8)

ERDADS DATA POINT DESCRIPTIONS

POINT DESCRIPTION	PT ID	POINT NAME	TYPE CALCULATION	NOTES
Aux-Feedwater Flow A SG	821	SGAFWFLO-3	Sum	The AFW flow is the sum of trains one and two for each S/G. The aux feed is supplied by three steam driven pumps which discharge to two redundant trains. Each train supplies flow to both units and may feed any of the S/Gs. Administratively Pump A is aligned to Train one Pump B and C to Train two. The condensate storage tanks (250K gls ea) are the normal supply to the Aux Feed System.
Aux Feedwater Flow B SG	824	SGBAFWFLO-3	Sum	The AFW flow is the sum of trains one and two for each S/G. The aux feed is supplied by three steam driven pumps which discharge to two redundant trains. Each train supplies flow to both units and may feed any of the S/Gs. Administratively pump A is aligned to Train one; Pumps B and C to Train two. The condensate storage tanks (250K gls ea) are the normal supply to the Aux Feed System.
Aux Feedwater Flow C SG	827	SGCAFWFLO-3	Sum	The AFW flow is the sum of trains one and two for each S/G. The aux feed is supplied by three steam driven pumps which discharge to two redundant trains. Each train supplies flow to both units and may feed any of the S/Gs. Administratively Pump A is aligned to train one, Pump B and C to train two. The condensate storage tanks (250K gls. ea.) are the normal supply to the Aux Feed System.

ENCLOSURE 4
(Page 8 of 8)

ERDADS DATA POINT DESCRIPTIONS

POINT DESCRIPTION	PT ID	POINT NAME	TYPE CALCULATION	NOTES
Condensate Storage Tank Level	843	CSTLOGAL-3	Minimum	Lowest of the two tank level transmitters is used.
Stm Dump to ATMOS Stm Gen A	630	CV1606		Valve stem contact switch provides for a closed or not closed indication.
Stm Dump to ATMOS Stm G B	631	CV1607		
Stm Dump to ATMOS Stm G C	600	CV1608		
Pressurizer PORV from PT444	H20	PCV455C		Valve position is calculated from current status of the two valve position switches. Calculation will give one of four results based on the two input switches. Positions given are: Failed, Open, Closed, and Throttled.
Pressurizer PORV from PT445	H21	PCV456		

ENCLOSURE 5
(Page 1 of 2)

GUIDELINES ON BRIEFING THE MEDIA

Information should be verified for accuracy prior to being released to the media.

Acronyms and **power plant** terminology should not be used during media briefings.

Media briefings should be held at set times whenever possible. If they are to be delayed, a courtesy announcement should be provided to the media.

EIM and PIOs should attend the briefing for the entire duration. If they must be excused, an explanation should be given to limit media confusion.

If press releases are passed out in a briefing, they should be addressed and explained to the media.

Conferring amongst the EIM, ECO, and PIOs while in front of the media is distracting and should be avoided.

Know what your main messages are before the briefing and emphasize their importance during your delivery.

Stick to the agenda; maintain control.

Try to begin and end the interview with a summary of your main message.

Try not to use phrases such as **That's a good question**, or **I'm glad you asked that** unless you need a few seconds to compose an answer.

Simplify technical explanations; try to relay the message in laymans terms.

Don't refer to the competition, even when asked. Speak only for your company or organization. If the story concerns an interview about your industry at-large, be certain you are the proper person to comment.

If you must own up to unfavorable facts, acknowledge them in a gracious, fair manner, such as, **Certainly there are instances of unethical behavior in every profession,** then quickly move on.

Do respond in a sincere, direct and cooperative manner.

Keep it short and keep it simple.

Listen carefully to the question; it it's negative, answer in the positive whenever possible.

ENCLOSURE 5
(Page 2 of 2)

GUIDELINES ON BRIEFING THE MEDIA

Back up a claim you make with facts and stick to the facts.

Speak from the viewpoint of the public's interest.

When necessary, say **I don't know, but I'll try to find out for you.**

Be aware that everything you say is subject to being quoted – before, during and after your interview or news conference.

Do not speculate; never guess; avoid **what if** questions.

Don't talk **off the record**, there is no such thing.

Don't argue, get angry, ramble, joke or act superior.

Don't use the term **no comment**, offer a brief explanation, if appropriate, such as: **that hasn't been determined,** or **we don't disclose that kind of information** (i.e., customer or employee specific information).

Don't try to fool a reporter or indicate you know something you don't; be honest.

Avoid calling a reporter by name in a news conference that's being taped; it may keep competing broadcasters from using your answer.

ATTACHMENT 1
(Page 1 of 3)

FLORIDA NUCLEAR PLANT EMERGENCY NOTIFICATION FORM

1. A. ☐ THIS IS A DRILL B. ☐ THIS IS AN ACTUAL EVENT
2. A. Time/Date contact made_____ B. Reported by: (Name/Title)_____
   C. Message Number_____ D. Reported from: ☐ Control Room ☐ TSC ☐ EOF
3. SITE A. ☐ CRYSTAL RIVER UNIT 3 B. ☐ ST LUCIE UNIT 1 D. ☐ TURKEY POINT UNIT 3
   C. ☐ ST LUCIE UNIT 2 E. ☐ TURKEY POINT UNIT 4

4. ACCIDENT CLASSIFICATION A. ☐ NOTIFICATION OF UNUSUAL EVENT C. ☐ SITE AREA EMERGENCY
   B. ☐ ALERT D. ☐ GENERAL EMERGENCY

5. CURRENT EMERGENCY DECLARATION: TIME:_____ DATE_____
6. REASON FOR EMERGENCY DECLARATION _____

7. ADDITIONAL INFORMATION OR UPDATE:

8. INJURIES REQUIRING OFFSITE SUPPORT: A. ☐ No ☐ Yes ☐ Unknown B. Contaminated: ☐ No ☐ Yes ☐ Unknown

9. WEATHER DATA: A. Wind direction from _____degrees.
   B. Downwind Sectors Affected (minimum of 3):____, ____, ____, ____

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

11. OFFSITE RELEASE SIGNIFICANCE CATEGORY (at the Site Boundary)
    A. ☐ Information not available at this time
    B. ☐ Release within normal operating limits (≤ 2.8 ci/sec noble gas, ≤ 3.7 E-4 ci/sec iodine)
    C. ☐ Non-Significant Fraction of PAG Range (release is > normal limits and < 500 mR TEDE and 1000 mR CDE)
    D. ☐ PAG Range (≥500 mR TEDE or ≥1000 mR CDE)

12. UTILITY RECOMMENDED PROTECTIVE ACTIONS

A. ☐ NONE B. ☐ SHELTER ZONES/AREAS:___(Not for FPL Use)___
EVACUATE ZONES/AREA:___(Not for FPL Use)___

OR C. ☐

MILES	NO ACTION	EVACUATE SECTORS	SHELTER SECTORS
0 - 2			
2 - 5			
5 - 10			

13. HAS EVENT BEEN TERMINATED?: A. ☐ NO B. ☐ YES Time_____ Date_____

14. SUPPLEMENTAL FORM IS ATTACHED?: A. ☐ NO B. ☐ YES
    EC or RM Approval Signature_____ Time_____ Date_____
15. MESSAGE RECEIVED BY: Name_____ Time_____ Date_____

F-439:1/3

*/MR/bsc/ev/ev

ATTACHMENT 1
(Page 2 of 3)
FLORIDA NUCLEAR PLANT EMERGENCY NOTIFICATION FORM
SUPPLEMENTAL DATA SHEET

The following supplemental data is to be completed after the TSC or EOF is declared operational at Alert of higher Supplement to Message Number_____

PLANT CONDITIONS INFORMATION

CRITICAL SAFETY FUNCTIONS

A. REACTOR SHUTDOWN? ☐ YES ☐ NO

B. CORE ADEQUATELY COOLED? ☐ YES ☐ NO

C. ADEQUATE EMERGENCY POWER AVAILABLE (DIESELS) ☐ YES ☐ NO

FISSION PRODUCT BARRIER STATUS: (Check one condition for each barrier)

BARRIER	√	INTACT	√	CHALLENGED	√	LOST	√	REGAINED
FUEL CLADDING		No indication of clad damage		Clad is intact but losing subcooling, water level, etc		Clad has failed, indicated by high temps., high containment rad, etc		Cooling restored, no further degradation expected
PRI. REACTOR COOLANT SYSTEM		Leakage is within normal charging or makeup pump capacity		Leakage is within safety injection capacity		Leakage exceeds safety injection capacity		Leakage reduced to within injection capacity (system repaired)
CONTAINMENT		No evidence of containment leakage or tube rupture release is only through condenser		No leakage but containment pressure is at or above safety system actuation points		Evidence of containment leakage (known release path or rad surveys)		Repair Efforts have isolated leak or containment pressure has reduced to stop leakage

COMPLETED BY:_____TIME:_____DATE:_____

RADIOLOGICAL DOSE ASSESSMENT DATA

1. RELEASE STATUS: A. ☐ No Release (no further data required) C. ☐ A Release occurred, but stopped
   B. ☐ A Release is occurring

2. RELEASE RATE:
   A. ☐ NOBLE GASES: _____Curies per second ☐ Measured ☐ Default
   B. ☐ IODINES: _____Curies per second ☐ Measured ☐ Default

3. TYPE OF RELEASE:
   A. ☐ AIRBORNE: Time/Date started:_____ B. ☐ LIQUID Time/Date started:_____
   Time/Date stopped:_____ Time/Date stopped:_____

4. PROJECTED OFFSITE DOSE RATE:

DISTANCE	THYROID DOSE RATE (CDE)	TOTAL DOSE RATE (TEDE)
1 Mile (Site Boundary)	A._____mrem/hr	B._____mrem/hr
2 Miles	C._____mrem/hr	D._____mrem/hr
5 Miles	E._____mrem/hr	F._____mrem/hr
10 Miles	G._____mrem/hr	H._____mrem/hr

5. WEATHER DATA (used for the above data):
   A. Wind Direction from ___degrees.
   B. Wind Speed _____MPH
   C. Stability Class_____

COMPLETED BY:_____ TIME:_____DATE:_____

Emergency Coordinator or Recovery Manager Approval_____

F-439:2/3

*/MR/bsc/ev/ev

ATTACHMENT 1
(Page 3 of 3)

FLORIDA NUCLEAR PLANT EMERGENCY NOTIFICATION FORM

METEOROLOGICAL WORKSHEET

SECTOR REFERENCE:

The chart below can be used to determine sectors affected by a radiological release, through comparison with wind direction from the meteorological recorders in the Control Room.

If the wind direction is directly on the edge of two sectors (e.g., 11°, 33°, 56°, etc.), an additional sector should be added to the protective action recommendations. For example, if the wind direction is from 78°, then the affected sectors for PARs should be L, M, N and P.

SECTOR INFORMATION:

WIND SECTOR	WIND FROM	DEGREES	WIND TOWARD	SECTORS AFFECTED
[A]	N	348-11	S	HJK
[B]	NNE	11-33	SSW	JKL
[C]	NE	33-56	SW	KLM
[D]	ENE	56-78	WSW	LMN
[E]	E	78-101	W	MNP
[F]	ESE	101-123	WNW	NPQ
[G]	SE	123-146	NW	PQR
[H]	SSE	146-168	NNW	QRA
[J]	S	168-191	N	RAB
[K]	SSW	191-213	NNE	ABC
[L]	SW	213-236	NE	BCD
[M]	WSW	236-258	ENE	CDE
[N]	W	258-281	E	DEF
[P]	WNW	281-303	ESE	EFG
[Q]	NW	303-326	SE	FGH
[R]	NNW	326-348	SSE	GHJ

STABILITY CLASSIFICATION REFERENCE:

The below chart can be used to determine atmospheric stability classification for notification to the State of Florida. Primary method is from ΔT via the South Dade (60 meter) tower. Backup method is from Sigma Theta via the Ten Meter Tower. If neither meteorological tower is available, Stability Classification shall be determined using data from National Weather Service (See 0-EPIP-20126, Off-site Dose Calculations).

CLASSIFICATION OF ATMOSPHERIC STABILITY:

Stability Classification	Pasquill Categories	Primary Delta T (°F)	Backup Sigma Theta Range (Degrees)
Extremely unstable	A	$\Delta T \leq -1.7$	$ST \geq 22.5$
Moderately unstable	B	$-1.7 < \Delta T \leq -1.5$	$22.5 > ST \geq 17.5$
Slightly unstable	C	$-1.5 < \Delta T \leq -1.4$	$17.5 > ST \geq 12.5$
Neutral	D	$-1.4 < \Delta T \leq -0.5$	$12.5 > ST \geq 7.5$
Slightly stable	E	$-0.5 < \Delta T \leq +1.4$	$7.5 > ST \geq 3.8$
Moderately stable	F	$+1.4 < \Delta T \leq +3.6$	$3.8 > ST \geq 2.1$
Extremely stable	G	$+3.6 < \Delta T$	$2.1 > ST$

Meteorological information needed to fill out the Florida Nuclear Plant Emergency Notification Form is available from the Dose Calculation Worksheet (0-EPIP-20126). The Worksheet shall be filled out by Chemistry and given to the Emergency Coordinator.

ATTACHMENT 2
(Page 1 of 2)

EVENT NOTIFICATION WORKSHEET

PAGE 1 OF 2

NRC FORM 361 (12-2000)

U.S. NUCLEAR REGULATORY COMMISSION
OPERATIONS CENTER

REACTOR PLANT
EVENT NOTIFICATION WORKSHEET EN #

NRC OPERATION TELEPHONE NUMBER: PRIMARY – 301-816-5100 or 800-532-3469*, BACKUPS – [1st] 301-951-0550 or 800-449-3694*, [2nd] 301-415-0550 and [3rd] 301-415-0553
*Licensees who maintain their own ETS are provided these telephone numbers

NOTIFICATION TIME	FACILITY OR ORGANIZATION	UNIT	NAME OF CALLER	CALL BACK #

EVENT TIME & ZONE	EVENT DATE	POWER/MODE BEFORE	POWER/MODE AFTER

EVENT CLASSIFICATIONS		1-Hr. Non-Emergency 10 CFR 50.72(b)(1)			4-Hr. Non-Emergency 10 CFR 50.72(b)(2)			8-Hr. Non-Emergency 10 CFR 50.72(b)(3)			60-Day Optional 10 CFR 50.73(a)(1)	
GENERAL EMERGENCY	GEN/AAEC		TS Deviation	AOEV	(i)	TS Required S/D	ASHU	(ii)(A)	Degraded Condition	ADEG		Invalid Specified System Actuation AINV
SITE AREA EMERGENCY	SITE/AAEC				(iv)(A)	ECCS Discharge to RCS	ACCS	(ii)(B)	Unanalyzed Condition	AUNA	Other Unspecified Requirement (Identify)	
ALERT	ALE/AAEC				(iv)(B)	RPS Actuation (scram)	ARPS	(iv)(A)	Specified System Actuation	AESF		NONR
UNUSUAL EVENT	UNU/AAEC				(xi)	Offsite Notification	APRE					NONR
50.72 NON-EMERGENCY	(see next columns)											
PHYSICAL SECURITY (73.71)	CCCC											
MATERIAL/EXPOSURE	BYYY											
FITNESS FOR DUTY	HFIT											
OTHER UNSPECIFIED REQMT	(see last column)											
INFORMATION ONLY	NNF											

(v)(A)	Safe S/D Capability	AINA
(v)(B)	RHR Capability	AINB
(v)(C)	Control of Rad Release	AINC
(v)(D)	Accident Mitigation	AIND
(xii)	Offsite Medical	AMED
(xiii)	Loss Comm/Asmt/Resp	ACOM

DESCRIPTION

Include: Systems affected, actuations and their initiating signals, causes, effect of event on plant, actions taken or planned, etc. *(Continue on back)*

NOTIFICATIONS	YES	NO	WILL BE
NRC RESIDENT			
STATE(s)			
LOCAL			
OTHER GOV AGENCIES			
MEDIA/PRESS RELEASE			

ANYTHING UNUSUAL OR NOT UNDERSTOOD? ☐ YES (Explain above) ☐ NO

DID ALL SYSTEMS FUNCTION AS REQUIRED? ☐ YES ☐ NO (Explain above)

MODE OF OPERATION UNTIL CORRECTED:

ESTIMATED RESTART DATE:

ADDITIONAL INFO ON BACK ☐ YES ☐ NO

NRC FORM 361 (12-2000)

PRINTED ON RECYCLED PAPER

*/MR/bsc/ev/ev

ATTACHMENT 2
(Page 2 of 2)

EVENT NOTIFICATION WORKSHEET

ADDITIONAL INFORMATION PAGE 2 OF 2

RADIOLOGICAL RELEASES: CHECK OR FILL IN APPLICABLE ITEMS *(specific details/explanations should be covered in event description)*

LIQUID RELEASE	GASEOUS RELEASE	UNPLANNED RELEASE	PLANNED RELEASE	ONGOING	TERMINATED
MONITORED	UNMONITORED	OFFSITE RELEASE	T. S. EXCEEDED	RM ALARMS	AREAS EVACUATED
PERSONNEL EXPOSED OR CONTAMINATED		OFFSITE PROTECTIVE ACTIONS RECOMMENDED		*State release path in description	

	Release Rate (Ci/sec)	% T. S. LIMIT	HOO GUIDE	Total Activity (Ci)	% T. S. LIMIT	HOO GUIDE
Noble Gas			0.1 Ci/sec			1000 Ci
Iodine			10 uCi/sec			0.01 Ci
Particulate			1 uCi/sec			1 mCi
Liquid *(excluding tritium and dissolved noble gases)*			10 uCi/min			0.1 Ci
Liquid (tritium)			0.2 Ci/min			5 Ci
Total Activity						

	PLANT STACK	CONDENSER/AIR EJECTOR	MAIN STEAM LINE	SG BLOWDOWN	OTHER
RAD MONITOR READINGS					
ALARM SETPOINTS					
% T. S. LIMIT *(if applicable)*					

RCS OR SG TUBE LEAKS: CHECK OR FILL IN APPLICABLE ITEMS: *(specific details/explanations should be covered in event description)*

LOCATION OF THE LEAK *(e.g., SG #, valve, pipe, etc.)*

LEAK RATE	UNITS: gpm/gpd	T. S. LIMITS	SUDDEN OR LONG-TERM DEVELOPMENT
LEAK START DATE	TIME	COOLANT ACTIVITY AND UNITS: PRIMARY	SECONDARY

LIST OF SAFETY RELATED EQUIPMENT NOT OPERATIONAL

EVENT DESCRIPTION *(Continued from front)*

*/MR/bsc/ev/ev

ATTACHMENT 3
(Page 1 of 1)

INJURED PERSON REPORT

Name:	Employer: ☐ FPL ☐ OTHER (LIST COMPANY NAME)	JOB DESCRIPTION:	
TIME INJURED:	TIME REPORTED:	NATURE OF INJURY:	LOCATION WHERE INJURY OCCURRED:
IS THE VICTIM CONTAMINATED? ☐ NO ☐ YES	WHAT BODY PARTS CONTAMINATED?	Level of Contamination	AREA____LEVEL_____ _____ DPM _____CPM _____ AREA____LEVEL_____ _____ DPM _____CPM _____ AREA____LEVEL_____ _____ DPM _____CPM _____
TRANSPORTED TO HOSPITAL? ☐ NO ☐ YES	HOW TRANSPORTED?	NAME OF HOSPITAL OR OTHER LOCATION	
ACTIVITY AT THE TIME INJURY OCCURRED		CURRENT MEDICAL CONDITION	
MISC. INFO			

Name:	Employer: ☐ FPL ☐ OTHER (LIST COMPANY NAME)	JOB DESCRIPTION:	
TIME INJURED:	TIME REPORTED:	NATURE OF INJURY:	LOCATION WHERE INJURY OCCURRED:
IS THE VICTIM CONTAMINATED? ☐ NO ☐ YES	WHAT BODY PARTS CONTAMINATED?	Level of Contamination	AREA____LEVEL_____ _____ DPM _____CPM _____ AREA____LEVEL_____ _____ DPM _____CPM _____ AREA____LEVEL_____ _____ DPM _____CPM _____
TRANSPORTED TO HOSPITAL? ☐ NO ☐ YES	HOW TRANSPORTED?	NAME OF HOSPITAL OR OTHER LOCATION	
ACTIVITY AT THE TIME INJURY OCCURRED		CURRENT MEDICAL CONDITION	
MISC. INFO			

*/MR/bsc/ev/ev

ATTACHMENT 4
(Page 1 of 3)

EMERGENCY PLAN SECURITY CHECKLIST

ITEM	EVENT/ACTION	START TIME	FINISH TIME
1	TYPE OF EVENT	N/A	N/A
A	LOCAL AREA EVACUATION		
B	CONTROL ROOM EVAUATION		
	S/O POSTED AT D840	N/A	
C	UNUSUAL EVENT		N/A
D	ALERT – PATROL DISPATCHED FOR OCA NOTIFICAITON		N/A
	SCHOOL/TRAINING/WELLNESS COMPLEX NOTIFIED	N/A	
	BOAT RAMP SIGNS POSTED/PERSONNEL NOTIFIED	N/A	
	RED BARN/SCOUT CAMP NOTFIED	N/A	
	SWITCHYARD PERSONNEL NOTIFIED	N/A	
	PERSONNEL IN TRAILERS SOUTH OF CRF NOTIFIED	N/A	
	PERSONNEL IN LAYDOWN AREA NORTH OF CRF NOTIFIED	N/A	
	FOSSIL CONTROL ROOM NOTIFIED	N/A	
	OCA NOTIFICAITONS COMPLETE	N/A	
E	SITE AREA MERGENCY		N/A
F	GENERAL EMERGENCY		N/A
2	DISPATCH SUPERVISOR AND S/O TO OPEN TSC		N/A
A.	TSC POSTED	N/A	
3	DISPATCH 2 S/Os TO OPEN OSC		N/A
A	OSC POSTED	N/A	
4	TSC SECURITY SUPERVISOR POSTED IN TSC	N/A	

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ATTACHMENT 4
(Page 2 of 3)

EMERGENCY PLAN SECURITY CHECKLIST

ITEM	EVENT/ACTION	START TIME	FINISH TIME
5	EVACUATION ROUTE____PRIMARY___ALTERNATE	N/A	N/A
A	PRIMARY EVACUATION ROUTE	N/A	N/A
	DISPATCH S/O TO PRIMARY OSAA		N/A
	DISPATCH S/O TO FPL PROPERTY LINE		N/A
	S/O POSTED AT PRIMARY OSAA	N/A	
	S/O POSTED AT FPL PROPERTY LINE	N/A	
	S/O AT PROPERTY LINE RELOCATED TO LLEA CONTROL POINT	N/A	
B	ALTERNATE EVACUATION ROUTE	N/A	N/A
	DISPATCH S/Os TO TOWER GATE AND ALTERNATE OSAA		N/A
	S/O POSTED AT TOWER GATE	N/A	
	S/O POSTED AT ALTERNATE OSAA	N/A	
	S/O POSTED AT CARD SOUND ROAD	N/A	
6	PA ACCESS RESTRICTED TO ERD PERSONNEL		N/A
7	VISITORS DIRECTED TO LEAVE PA		N/A
A	VISITORS ACCOUNTED FOR	N/A	
8	CONTRACTOR PERSONNEL DIRECTED TO LEAVE PA		N/A
A	CONTRACTOR PERSONNEL ACCOUNTED FOR	N/A	
9	PA EVACUATION DIRECTED		N/A
A	ACCOUNTABILITY STARTED		N/A
B	INITIAL ACCOUNTABILITY COMPLETED	N/A	
C	ALL PERSONNEL ACCOUNTED FOR	N/A	
D	RCA SWEEPS STARTED		N/A
E	RCA SWEEPS COMPLETED	N/A	
F	PA SWEEPS STARTED		N/A
G	PA SWEEPS COMPLETED	N/A	

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ATTACHMENT 4
(Page 3 of 3)

EMERGENCY PLAN SECURITY CHECKLIST

ITEM	EVENT/ACTION	START TIME	FINISH TIME
10	SAFEGUARDS	N/A	N/A
A	MODIFIED		N/A
B	SUSPENDED		N/A
C	SAS CLOSED	N/A	
D	CAS CLOSED	N/A	
E	N.E.B CLOSED	N/A	
11	EVACUATION OF SECURITY PERSONNEL	N/A	N/A
A	NON-ESSENTIAL SECURITY EVACUATION STARTED		N/A
B	NON-ESSENTIAL SECURITY EVACUATION COMPLETED	N/A	
12	SECURITY ACCESS BUILDINGS	N/A	N/A
A	MTG CLOSED	N/A	
B	WTG CLOSED	N/A	
13	SECURITY EQUIPMENT	N/A	N/A
A	WEAPONS SECURED	N/A	
B	KEYS SECURED	N/A	
14	RESTORATION OF SAFEGUARDS BEGUN		N/A
15	RESTORATION OF SAFEGUARDS COMPLETE	N/A	

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ATTACHMENT 5
(Page 1 of 1)

ENGINEERING TECHNICAL RESPONSE WORKSHEET

TO:_____

SUBJECT	
DATE & TIME RECEIVED	REQUESTER
REQUEST	
RESPONSE	

BY	CHECKED
EMERGENCY TECHNICAL MANAGER	
DATE & TIME:	

*/MR/bsc/ev/ev

ATTACHMENT 6
(Page 1 of 1)

EOF ACCESS LOG

Day of Week	Month	Day	Year		Sheet # of

TIME IN	TIME OUT (optional)	PRINT NAME	DEPARTMENT OR COMPANY	ERO POSITION OR COMPANY TITLE	ARE YOU FIT FOR DUTY?*** Yes	No	Initial

*** If you have consumed alcohol within the past 5 hours, ensure Emergency Security Manager is promptly informed of your status.

ATTACHMENT 7
(Page 1 of 4)

FIELD MONITORING AND PLUME PROJECTION RESULTS

FIELD MONITORING AND PLUME PROJECITON RESULTS

SAMPLE TIME	SAMPLE SITE DATA		MILES FROM PLANT	DIRCTN FROM PLANT	DOWN WIND DIRCTN	FIELD SURVEY RESULTS				PLUME PROJECTIONS				RATIO: FIELD / PROJ		NOTES/COMMENTS
	SURVEY TEAM	REFERENCE LOCATION				PLUME (DDE) mR/Hr	I µCi cc	THYROID (CDE) mREM/Hr	C L	PLUME (DDE) mR/Hr	THYROID (CDE) mREM/Hr	PLUME E.T.A. WIND M.P.H.	PRINT OUT #	PLUME (DDE)	THYROID (CDE)	

*/MR/bsc/ev/ev

ATTACHMENT 7
(Page 2 of 4)
FIELD MONITORING AND PLUME PROJECTION RESULTS

Guidance for Completing the FIELD MONITORING AND PLUME PROJECTION RESULTS FORM

SAMPLE TIME – Time of sample acquisition

SURVEY TEAM – FPL teams, team named by TSC

SAMPLE SITE DATA – Location of sampling activities

REFERENCE LOCATION - Used only if at a **pre identified** location; those locations on the survey maps

MILES FROM PLANT – Best approximation from map; plant to survey location

DIRECTION FROM PLANT – Compass degrees from plant to survey location

DOWNWIND DIRECTION – The indicated, at plant, downwind direction at the time of sampling

(the difference between direction from plant and downwind direction yields a **relative to centerline** distance)

FIELD SURVEY RESULTS

- Plume (DDE) mR/Hr - Team will report the Deep Dose Equivalent (DDE) meter reading
- I uCi/cc Team reports Iodine – 131 concentration
- Thyroid (DCE) mRem/Hr – Team reports thyroid dose rate
- CL – Enter **Y** if the team is on the **centerline,** i.e., the direction from plant = downwind direction

PLUME PROJECITONS –

Determine the printout to be used for comparison as follows:

a. Divide the field Monitoring Team MILES FROM PLANT by the average wind speed, answer is **hours**

b. Subtract the **hours** from the actual SAMPLE TIME, this estimates the release **time of day** for the portion of the plume being sampled.

c. Select the latest printout that has a release **Observation** time before the estimated **time of day**

d. From that printout, Enter the plume DDE, Thyroid CDE and printout #

e. Enter the **average** wind speed used above for WIND M.P.H.

RATIO – i. **IF** the team sampled centerline at 1, 2, 5, 7.5, 10, 15, 20, 25 miles **OR** at a predesignated sampling location, **THEN** the ratios are the Team Values divided by the Printout Values.

ii. **IF** the team is **off centerline** (e.g., **left or right**) **THEN** a centerline value may be estimated using Relationship 2. (1609 meters = 1 mile)

iii. **IF** the team is not at one of the distances noted in i, above, **THEN** a value at one of those distances may be estimated using Relationship 1.

ATTACHMENT 7
(Page 3 of 4)

FIELD MONITORING AND PLUME PROJECTION RESULTS

1. Action

ACTION RESPONSES – NOTIFY HPM	Possible Classification
• Field measured results are >2 times or < 1/2 projected	
• ≥0.5 mR/hr DDE or Thy. (CDE) at 1 mile site boundary	Alert
• >50 mR/hr DDE or >250 mRem/hr Thy. (CDE) for release >1/2 hr., or	
• >500 mR/hr DDE or >2500 mRem/hr Thy. (CDE) for release >2 min.	Site Area Emergency
• >1 R/hr DDE or >5 Rem/hr Thy. (CDE) at 1 mile site boundary	General Emergency
(SOURCE – RADIOLOGICAL EMERGENCY PLAN)	
Allowable Field Team Dose – 3 R DDE, 25 Rem Thyroid (CDE)	(Source – 0-EPIP-20129)
Dose Conversion – Field Measured I-131 µCi/cc x 1.72 E9 =	Estimated Thy Dose rate mRem/hr. (SOURCE – 0-EPIP-20129, Enclosure 4)

Relationship #1 — Estimating Dose from Field Samples — Relationship 2

Dose at different distance from Plant

$$\text{Estimated Dose} = \text{Given Dose} \left[\frac{\text{Given Dose Distance}}{\text{Estimated Dose Distance}}\right]$$

Where:

X	Stability Class
2.0	A or B
1.5	C or D
1.0	E or F

(SOURCE – EPA 520/1-75-001-a Rev 10/91)

Dose at distance from CenterLine

$$\text{Off CenterLine Dose Value} = \text{CenterLine Dose Value} \; e^{-1/2\left(\frac{y}{\sigma_y}\right)^2}$$

Where: y = distance off CenterLine (m)
σ_y = value from table in Source reference (m) Graph on next page

(SOURCE – Meteorology and Atomic Energy 1968, D.G. Slade)

Sector Distances	
Sectors = 22.5°	
1 mile = 5280 ft. or 1609 meters	
Circle Radius (Miles)	Sector Arc Length (feet / meters)
0.5	1037/316
1	2073/632
2	4146/1264
3	6219/1896
4	8292/2528
5	10365/3160

*/MR/bsc/ev/ev

ATTACHMENT 7
(Page 4 of 4)

FIELD MONITORING AND PLUME PROJECTION RESULTS

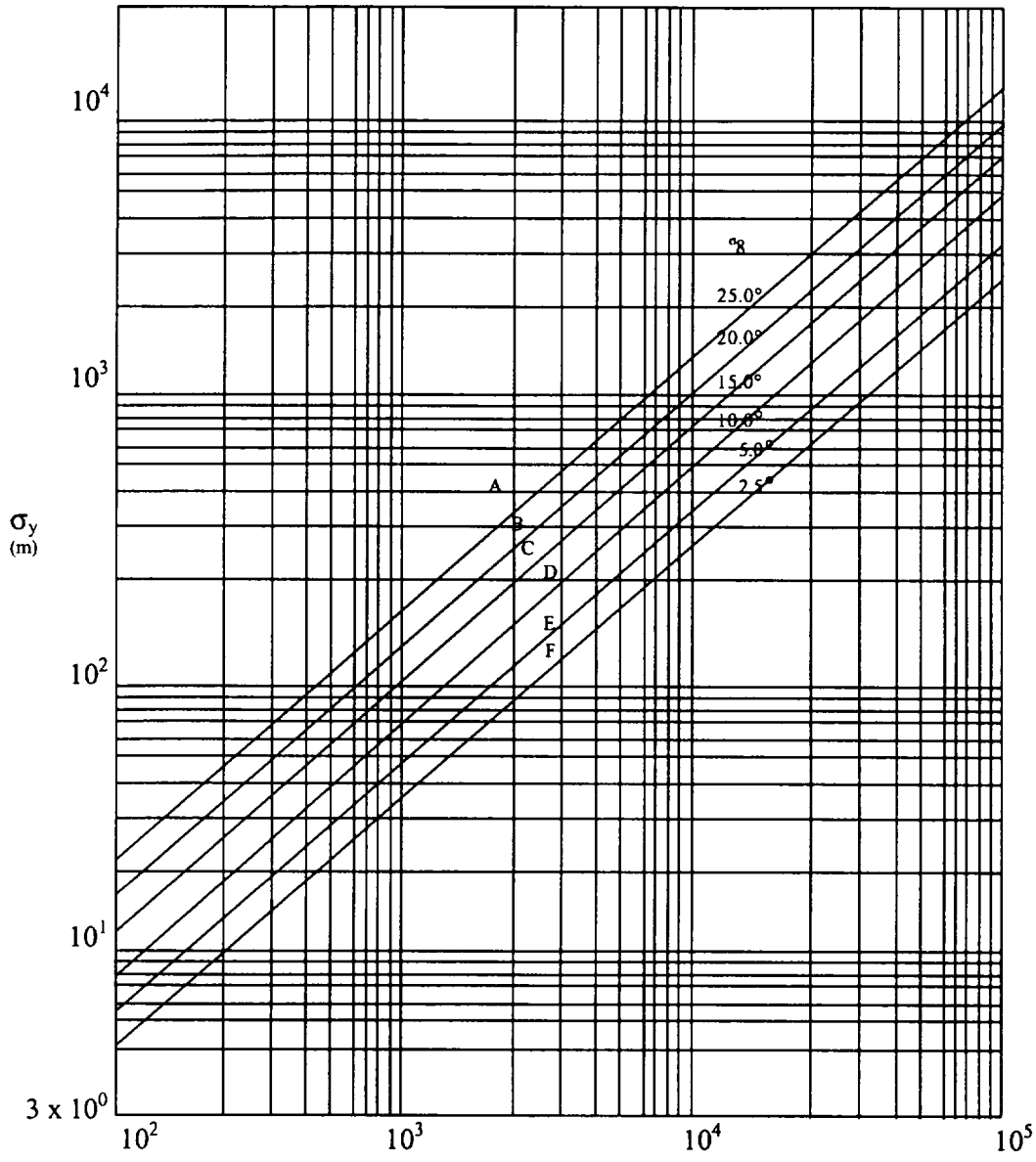

Fig. A.2 – Standard deviation of the lateral concentration distribution, σ_y, as a function of travel distance from a continuous source. A – F are Pasquill's diffusion categories.

ATTACHMENT 8
(Page 1 of 1)

EOF FIRST RESPONDER CHECK-OFF SHEET

Facility Activation:

NOTE

The following attachment steps may be performed out of sequence.

☐ Turn lights on to the facility using the light switches located on the left wall.

☐ Sign in on the EOF Access Log (or a form similar to Attachment 6) and indicate FFD Status.

☐ Sign in on the EOF Staff Accountability Board.

☐ Report to your work area and proceed with any additional activation steps outlined in this procedure applicable to your emergency response position.

a. Consult Figures 1 and 2 for directions to and layout of the EOF, as necessary.

b. The Turkey Point EOF is on the fifth floor of the General Office Building located at 9250 West Flagler Street in Miami.

Completed by:_____ Date:_____

ATTACHMENT 9
(Page 1 of 3)

**EMERGENCY SECURITY MANAGER (ESM)
AND SECURITY PERSONNEL
CHECK-OFF SHEET**

Facility Activation

NOTE

The following attachment steps may be performed out of sequence.

CAUTION

Security must perform a security sweep of the EOF and should be dispatched as soon as possible to the facility.

NOTE

EOF personnel already in place should not be impacted or impeded by security check-in process.

☐ The Emergency Security Manager should notify General Office (G.O.) Security Operations of activation of the EOF and the ENC, if necessary.

☐ a. The Emergency Security Manager should notify G.O. Security Operations that any individual presenting a valid state, county, or NRC ID, be granted access for the duration of the event.

Upon arriving at the EOF, the ESM shall ensure the following is performed:

☐ a. Sign in on the EOF Access Log, indicate FFD status, and ensure that security support personnel have signed in and indicated FFD status.

☐ b. Sign in on the EOF Staff Accountability Board and ensure that security personnel have signed in.

☐ c. Ensure controlled procedures are retrieved and used.

☐ d. Ensure security sweep of the EOF has been performed or is in progress.

☐ e. Ensure Intoxilizer has been turned on and calibration has been performed and calibration date is current.

ATTACHMENT 9
(Page 2 of 3)

EMERGENCY SECURITY MANAGER (ESM) AND SECURITY PERSONNEL CHECK-OFF SHEET

Facility Activation (Cont'd)

CAUTION

Security controls in the EOF should be established in a manner that will minimize the impact on responders activating the EOF.

☐ f. Set up security checkpoint at the EOF entrance.

☐ (1) Verify that responders to the EOF are presenting valid IDs or are listed in the ERD.

☐ (2) Verify that no media personnel are allowed to access the EOF.

☐ (3) Verify that individuals are signing in on the EOF Access Log

☐ (4) Verify that Fitness for Duty screening requirements are being performed, as necessary.

☐ (5) Verify that responders are signing in on the EOF Staff Accountability Board.

☐ g. Ensure that an additional table is set up at the G.O. South employee entrance to process off-site agency EOF and ENC responders.

☐ h. Ensure communication capability with the TSC Security Supervisor and Local Law Enforcement Agencies (LLEA) is available.

☐ i. Ensure requirements for granting prompt access for NRC Event Team responders to the TSC/EOF have been initiated as necessary.

☐ j. Obtain an update from the TSC Security Supervisor.

☐ (1) Discuss alternate routes for accessing the site as necessary.

☐ Inform the Recovery Manager that activation steps have been completed.

ATTACHMENT 9
(Page 3 of 3)

**EMERGENCY SECURITY MANAGER (ESM)
AND SECURITY PERSONNEL
CHECK-OFF SHEET**

Facility Operation (Cont'd)

☐ Supervise and maintain security in the EOF and ENC.

☐ a. Ensure that measures are in place to verify that only authorized personnel are allowed into the EOF.

☐ b. Ensure that all EOF responders are logging in on the EOF Access Log and indicating their FFD status.

☐ c. Ensure that press is not allowed to leave the ENC Auditorium and Press Phone Area.

☐ Ensure that provisions for Fitness For Duty inquiry and testing are maintained in the EOF in accordance with Nuclear Division policies and Security Instructions.

NOTE

Phone numbers for LLEAs are listed in the ERD.

Provide liaison between LLEAs and the Site to address coordination needs including:

☐ a. Request for bomb squads or law enforcement to address terrorist activities or civil unrest.

☐ b. Alerting law enforcement of press or curious public near the plant site.

☐ c. Coordination of access for fire/emergency medical vehicles and plant emergency responders.

☐ d. Status of traffic flow leaving site if a site evacuation is ordered.

☐ Ensure that requirements for granting prompt access for NRC responders to the TSC/EOF have been completed.

☐ Using Attachment 4, record actions taken in accordance with this procedure.

☐ Maintain status of injured or injured/contaminated individuals once they have been transferred from the site to an off-site medical facility using a form similar to Attachment 3.

☐ Inform the Recovery Manager of security issues as they occur.

Completed by:_____ Date:_____

ATTACHMENT 10
(Page 1 of 3)

EOF SUPERVISOR OR DESIGNEE CHECK-OFF SHEET

Facility Activation

NOTE

The following attachment steps may be performed out of sequence.

☐ Sign in on the EOF Access Log, indicate FFD status, and ensure EOF Supervisor staff sign in and indicate FFD status upon entry.

☐ a. RM Operations Advisor

☐ b. Tech Assistant to the RM

☐ c. State/County Communicator

☐ d. ENS Communicator

☐ e. ERDADS Operator

☐ f. TSC Communicator

☐ g. Administrative Supervisor

☐ h. Administrative Staff

☐ i. Status Board Keeper

☐ Sign in on the EOF Staff Accountability Board and ensure EOF Supervisor staff sign in upon entry and begin performing activation steps.

☐ Ensure all facility personnel sign in on the EOF Staff Accountability Board.

☐ Ensure the steps outlined in Subsection 5.1, the First Emergency Responder Section of this procedure, have been completed.

ATTACHMENT 10
(Page 2 of 3)

EOF SUPERVISOR OR DESIGNEE CHECK-OFF SHEET

Facility Activation (Cont'd)

NOTES

- *Qualified personnel who normally fill other positions may be used in minimum staff positions with required functions (i.e., notification/communication) to facilitate fastest possible operability of the EOF. Reference Enclosure 1 of 0-EPIP-1102, Duties of the Recovery Manager.*
- *The positions marked in red on the EOF Staff Accountability Board indicate the minimum number of personnel and positions required for EOF activation.*

Ensure the following EOF positions have been filled to satisfy minimum staffing requirements prior to the RM declaring the EOF operational.

- ☐ a. Recovery Manager
- ☐ b. RM Operations Advisor
- ☐ c. Hot Ring Down Communicator
- ☐ d. Dose Assessment Coordinators (2)
- ☐ e. ERDADS Operator or TSC Communicator

☐ Take actions to fill position vacancies within the EOF.

☐ Verify with the State and County Personnel that their equipment in the EOF (phones, faxes, etc.) is functional.

☐ For Alert, Site Area Emergency or General Emergency, ensure Risk Management notifies American Nuclear Insurers (ANI).

☐ Inform the Recovery Manager that your activation steps have been completed.

ATTACHMENT 10
(Page 3 of 3)

EOF SUPERVISOR OR DESIGNEE CHECK-OFF SHEET

Facility Operation

NOTE

Communication links should not be left unattended.

☐ Verify operability of communication and notification links (HRD, ENS, etc.)

☐ Verify timeliness of notifications via HRD, ENS, etc.

NOTE

Status boards should be updated approximately every 15 minutes or as necessary.

☐ Ensure the Plant Parameter Status Board is maintained with current data.

☐ Ensure the Sequence of Events Status Board is maintained with current information.

☐ Ensure distributions are performed through the EOF Administrative Supervisor using Enclosure 3 as guidance.

☐ Discuss with the RM the need to halt deliveries to the site (major equipment deliveries, mail, etc.).

☐ a. As necessary, make contacts to halt deliveries.

☐ Periodically check with the State and county personnel on the adequacy and operability of their equipment in the EOF (phones, faxes, etc.)

☐ Resolve equipment and assessment capability problems.

☐ Contact additional support as needed.

☐ Schedule long term staffing as necessary.

☐ Maintain a log of activities.

Completed by:_____ Date:_____

ATTACHMENT 11
(Page 1 of 1)

RM OPERATIONS ADVISOR CHECK-OFF SHEET

Facility Activation

NOTE

The following attachment steps may be performed out of sequence.

- ☐ Sign in on the EOF Access Log and indicate FFD status.
- ☐ Sign in on the EOF Staff Accountability Board.
- ☐ Obtain copies of the PAR Discussion Items Form from 0-EPIP-1102, Duties of the Recovery Manager, and begin filling out the form for the initial RM update.
- ☐ Ascertain plant status from the EOF TSC Communicator, TV System, or other available source.
- ☐ Inform the RM that you have completed your activation steps.

Facility Operation:

- ☐ Provide updates to the RM using the PAR Discussion Items Form from 0-EPIP-1102, Duties of the Recovery Manager, approximately every 45 minutes or upon significant changes.
- ☐ Follow plant status using the EOF TSC Communicator, TV System, or other available source.
- ☐ Remain current with emergency classification status and ensure current classification is posted.
- ☐ Ensure the RM is aware of and updates the state and counties on the status of site evacuation and owner controlled area clearing progress as appropriate.
- ☐ Routinely review EOPs progress with the RM, as necessary.
- ☐ Assume the duties of the RM while the RM is conducting briefings, as necessary.
- ☐ Assist the RM in preparing for briefings, as necessary.
- ☐ Provide operations/plant status during briefings, as necessary.
- ☐ Maintain the RM logbook.

Completed by:_____ Date:_____

ATTACHMENT 12
(Page 1 of 1)

TECHNICAL ASSISTANT TO THE RM CHECK-OFF SHEET

Facility Activation

NOTE

The following attachment steps may be performed out of sequence.

- ☐ Sign in on the EOF Access Log and indicate FFD status.
- ☐ Sign in on the EOF Staff Accountability Board.
- ☐ Determine present and potential future Emergency Action Level Status.
- ☐ Ensure last notifications to off-site agencies correctly portrayed present situation.
- ☐ Assist State/County Communicator with the completion of state notification forms, as necessary.
- ☐ Acquire 0-EPIP-1102, Duties of the Recovery Manager, ensure completion of all applicable steps and inform the Recovery Manager of the status.
- ☐ Inform the Recovery Manager that you have completed your activation steps.

Facility Operation

- ☐ Ensure all applicable steps of 0-EPIP-1102, Duties of the Recovery Manager, are completed.
- ☐ Update the 10-mile EPZ map with Protective Actions issued.
- ☐ Ensure the Plant Parameter Status Board and Sequence of Events Board accurately reflect the event.
- ☐ Assist the RM in preparing for briefings, as necessary.
- ☐ Provide operations / plant status during briefings, as necessary.
- ☐ Assume the duties of the RM while the RM is conducting briefings, as necessary.
- ☐ Maintain a log of activities.

Completed by:_____ Date:_____

ATTACHMENT 13
(Page 1 of 2)

STATE/COUNTY COMMUNICATOR CHECK-OFF SHEET

Facility Activation/Operation

NOTE

The following attachment steps may be performed out of sequence.

☐ Sign in on the EOF Access Log and indicate FFD status.

☐ Sign in on the EOF Accountability Board.

CAUTIONS

- ***Notification to the State Warning Point is required within 15 minutes of an emergency classification.***
- ***Collection of Release Rate Data shall not delay State of Florida notification.***
- ***If a transitory event has occurred, notifications are still required using this procedure.***
- ***Every hour, unless upon termination, or as conditions change (PARs, classification, significant plant conditions) notifications should be made.***

NOTE

If during the notification process, it becomes necessary to upgrade the emergency classification:

- *Ensure that the State warning Point has been notified of the Emergency Declaration within 15 minutes of making the initial classification.*
- *Stop the current notification process, and*
- *Proceed to the steps corresponding to the new emergency classification, including notification of the new classification to the State Warning Point.*

☐ Acquire copies of the Florida Nuclear Plant Emergency Notification Form (similar to Attachment 1).

ATTACHMENT 13
(Page 2 of 2)

STATE/COUNTY COMMUNICATOR CHECK-OFF SHEET

Facility Activation/Operation (Cont'd)

NOTE

Notification forms should be filled out as neatly and completely as possible. Abbreviations should not be used.

Obtain a turnover from the TSC State/County Communicator to include the following:

- ☐ a. Time of official notification and/or time of last update
- ☐ b. Delegation of future notifications
- ☐ c. Fax of previous Florida Nuclear Plant Emergency Notification Forms, if applicable.
- ☐ Complete a form similar to Attachment 1.
- ☐ a. Obtain Recovery Manager approval prior to transmitting the information.
- ☐ If the State and county representatives are not in the EOF, transmit the information over the Hot Ring Down System or Backup System, as required.
- ☐ If the State and County Representatives are in the EOF, 15 minute notifications should be met by transmitting the form through direct contact with the State Representative.

Completed by:_____ Date:_____

ATTACHMENT 14
(Page 1 of 2)
EMERGENCY NOTIFICATION SYSTEM (ENS) COMMUNICATOR CHECK-OFF SHEET

Facility Activation/Operation

NOTE

The following attachment steps may be performed out of sequence.

☐ Sign in on the EOF Access Log and indicate FFD status.

☐ Sign in on the EOF Accountability Board.

CAUTIONS

- ***Notification to the NRCOC is required immediately following a State Notification and within one hour of the emergency declaration.***
- ***Collection of Release rate data shall not delay NRC notification.***
- ***If a transitory event has occurred, notifications are still required using this procedure.***

☐ Obtain copies of the Event Notification Worksheet Form (form similar to Attachment 2).

Obtain a turnover from the TSC ENS Communicator to include the following:

☐ a. Time of official notification and/or time of last update

☐ b. Delegation of future notifications.

☐ c. Fax of previous Event Notification Worksheets Form (form similar to Attachment 2), if applicable.

☐ d. Status of the ERDS link to the NRC and whether the NRC has been informed the link is in place.

NOTE

Notification forms should be filled out as neatly and completely as possible. Abbreviations should not be used.

If a continuous line of communication has <u>not</u> been established with the NRC, then perform the following:

☐ a. Every hour complete a form similar to Attachment 2, unless less frequent updates are agreed to, upon termination, or as conditions change (PARs, classification, significant plant conditions).

ATTACHMENT 14
(Page 2 of 2)

EMERGENCY NOTIFICATION SYSTEM (ENS) COMMUNICATOR CHECK-OFF SHEET

Facility Activation/Operation (Cont'd)

☐ b. Obtain Recovery Manager approval by having him/her review and initial the Event Notification Worksheet Form (form similar to Attachment 2).

NOTE

The NRC may require a constant line of communication and both TSC and EOF may be requested to stay on the line.

☐ c. Contact the NRCOC, as required, using the numbers on the phone (or in the Immediate Notification Section of the ERD).

☐ d. Provide the information on the form.

☐ e. If the ERDS link has been established and if not previously informed by the TSC, inform the NRC that the ERDS link is available.

☐ f. If the NRCOC does not require a constant line of communication, notifications to the NRCOC should be performed as required.

☐ Once a continuous line of communications has been established with the NRC, discontinue use of the form and record transmitted information and inquiries from the NRC in the logbook.

Completed by:_____ Date:_____

ATTACHMENT 15
(Page 1 of 2)

ERDADS OPERATOR CHECK-OFF SHEET

Facility Activation

NOTE

The following attachment steps may be performed out of sequence.

☐ Sign in on the EOF Access Log and indicate FFD status.

☐ Sign in on the EOF Accountability Board.

Verify ERDADS operability:

☐ a. Verify the displays indicate the correct unit.

☐ (1) To change unit

☐ (a) Press <CLEAR>

☐ (b) Type PUP UNIT (3 or 4)

☐ (c) Press <EXEC>

☐ (d) **Unit Change Complete** message should appear.

b. Check that the following displays are available:

☐ (1) Off-site Dose Radiological Data (R3/4)

☐ (2) Emergency Plan Data (ED3/4)

☐ (3) Environmental Trends (MC3/4ENV)

☐ (4) Meteorological Parameter Verification (EP3/4ENV)

☐ (5) PTN Status Unit ¾ (U3/4)

☐ c. Check that the color plotter is operable.

☐ d. Check that the two line printers are operable.

ATTACHMENT 15
(Page 2 of 2)

ERDADS OPERATOR CHECK-OFF SHEET

Facility Operation

- ☐ Call up ERDADS information as requested.
- ☐ Provide printouts to the EOF Staff.
- ☐ Observe ERDADS data during intervals between report printing for significant changes and trends.
- ☐ Report changes to the RM or RM Ops Advisor.
- ☐ a. Assist EOF Communicators in collecting plant parameter and radiological data.
- ☐ b. Contact the TSC ERDADS operator to report the problem and request faxes, if necessary.

Completed by:_____ Date:_____

ATTACHMENT 16
(Page 1 of 1)

TSC COMMUNICATOR CHECK-OFF SHEET

Facility Activation

NOTE

The following attachment steps may be performed out of sequence.

- ☐ Sign in on the EOF Access Log and indicate FFD status.
- ☐ Sign in on the EOF Accountability Board.
- ☐ Establish communications with the TSC using the numbers in the ERD.
- ☐ Request fax copies of the Emergency Coordinator Log and provide to the EOF RM Operations Advisor.
- ☐ Obtain a turnover from the TSC EOF Communicator, including all events and activities that have occurred up to this point (request fax copies of the TSC Sequence of Events Board and the TSC Plant Parameters Status Board).
- ☐ Update the Sequence of Events Board with the turnover information.

Facility Operation:

- ☐ Maintain communications with the TSC.
- ☐ Update the Sequence of Events Board with current information.
- ☐ If ERDADS is out of service obtain plant status information through the phone in communication with the TSC

Completed by:_____ Date:_____

ATTACHMENT 17
(Page 1 of 2)

ADMINISTRATIVE SUPERVISOR CHECK-OFF SHEET

Facility Activation

NOTE

The following attachment steps may be performed out of sequence.

☐ Sign in on the EOF Access Log indicate FFD status, and ensure EOF Administrative staff sign in promptly and indicate FFD status upon entry.

☐ Sign in on the EOF Accountability Board and ensure EOF Administrative staff sign in and begin assisting with activation steps upon entry.

☐ Ensure the Simu-Fax is operable per Enclosure 2.

NOTE

Due to humidity effects on paper, copy paper and fax paper should be changed out to avoid paper jams.

☐ Copy machines in the Administrative Support and Dose Assessment areas have been turned on and are functional.

☐ Fax machines have been turned on and are operable.

NOTE

If problems with video or audio exist, contact the TSC Site Corporate Communicator (phone number in ERD).

☐ TV monitors have been turned on and video and audio of the TSC have been verified as operable.

☐ a. One TV should be viewing the TSC, the other should be viewing the ENC.

☐ Verify audibility of the speaker system throughout the EOF and adjust speakers as required.

☐ Synchronize all clocks in the facility using ERDADS time as official time.

ATTACHMENT 17
(Page 2 of 2)

ADMINISTRATIVE SUPERVISOR CHECK-OFF SHEET

Facility Operation

- ☐ Ensure correspondence is being faxed as necessary to the phone numbers programmed in the Simu-fax (also listed in the ERD, Section 5.0).
- ☐ Ensure distributions are performed as per Enclosure 3.
- ☐ Ensure minutes of formal briefings are taken to record pertinent information discussed.
- ☐ Ensure adequate measures are in place to meet personal needs such as food, water, etc. both at the EOF and the plant.
- ☐ Arrange hotel reservations and car rentals for incoming personnel as necessary.

Completed by:_____ Date:_____

ATTACHMENT 18
(Page 1 of 1)

STATUS BOARD KEEPER CHECK-OFF SHEET

Facility Activation/Operation

NOTE

The following attachment steps may be performed out of sequence.

- ☐ Sign in on the EOF Access Log and indicate FFD status.
- ☐ Sign in on the EOF Accountability Board.
- ☐ Ensure update of the Plant Data Status Board is initiated/performed using ERDADS printouts (Emergency Plan Data [ED3/4]) and the sequence of Events Board.
- ☐ If ERDADS is out of service, obtain plant parameter data through the phone in communication with the TSC.
- ☐ Make corrections to the board, when identified, by circling the corrected data.
- ☐ 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.

Completed by:_____ Date:_____

ATTACHMENT 19
(Page 1 of 2)
HEALTH PHYSICS MANAGER (HPM)/
DOSE ASSESSMENT COORDINATOR
CHECK-OFF SHEET

Facility Activation

NOTE

The following attachment steps may be performed out of sequence.

☐ Sign in on the EOF Access Log, indicate FFD status, and ensure all Dose Assessment Staff sign in and indicate FFD status upon entry.

☐ a. Dose Assessment Coordinators

☐ b. Dose Assessment Recorder

☐ c. Field Monitoring Coordinator

☐ d. Field Monitoring Recorder

☐ e. HPN Communicator

☐ Sign in on the EOF Staff Accountability Board and ensure all Dose Assessment Staff sign in upon entry and begin performing activation steps.

NOTE

If current dose calculations from the TSC are available in the EOF, the performance of dose calculations by the EOF staff should not delay EOF activation.

☐ Establish communications with the Dose Assessment personnel in the TSC and obtain an update on present or potential releases.

☐ Request copies of previously performed dose assessments from the TSC.

☐ Turn on the Dose Assessment Computer System and verify operability.

☐ a. Synchronize the date and time of the computer with ERDADS.

☐ Complete Class A Model QC check.

☐ Ensure off-site dose calculations are initiated in accordance with 0-EPIP-20126, Off-site Dose Calculations.

☐ Verify operability of the EOF Dose Assessment fax machine.

☐ Acquire copies of the PAR Discussion Items form from 0-EPIP-1102, Duties of the Recovery Manager, and provide updates to the Recovery Manager as requested.

☐ Inform the Recovery Manager that you have completed your activation steps.

ATTACHMENT 19
(Page 2 of 2)

HEALTH PHYSICS MANAGER (HPM)/
DOSE ASSESSMENT COORDINATOR
CHECK-OFF SHEET

Facility Operation

- ☐ Ensure off-site dose calculations are being performed in accordance with 0-EPIP-20126, Off-Site Dose Calculations, in conjunction with the TSC.
- ☐ Obtain input data for the Class A model from ERDADS.
- ☐ Provide updates to the RM for the PAR Discussion Items Form approximately every 45 minutes or upon significant changes.
- ☐ Ensure Field teams are tracked and coordinated between the TSC and the DOH-BRC.
- ☐ Review/compare field monitoring results with dose calculations.
- ☐ Coordinate Dose Assessment with the TSC.
- ☐ Provide radiological information to support the ENC.
- ☐ Ensure adequate communication is provided via the HPN.
- ☐ Ensure status boards in the Dose Assessment Area are being updated by providing update information to the Dose Assessment Recorder.
- ☐ Assist the RM in preparing for briefings, as necessary.
- ☐ Provide radiological data in briefings, as necessary.
- ☐ Maintain a log of activities.

Completed by:_____ Date:_____

ATTACHMENT 20
(Page 1 of 1)

DOSE ASSESSMENT RECORDER CHECK-OFF SHEET

Facility Activation

NOTE

The following attachment steps may be performed out of sequence.

☐ Sign in on the EOF Access Log and indicate FFD status.

☐ Sign in on the EOF Staff Accountability Board.

☐ Report to the EOF HP Manager or Dose Assessment Coordinator for special instructions.

Facility Operation:

☐ Obtain data from Dose Assessment Coordinator.

☐ Update the Dose Assessment and Process Radiation Monitoring System status boards in the Dose Assessment Area in a timely manner.

☐ Make corrections to the board, when identified, by circling the corrected data.

☐ 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.

Completed by:_____ Date:_____

ATTACHMENT 21
(Page 1 of 1)

FIELD MONITORING COORDINATOR CHECK-OFF SHEET

Facility Activation

NOTE

The following attachment steps may be performed out of sequence.

- ☐ Sign in on the EOF Access Log and indicate FFD status.
- ☐ Sign in on the EOF Staff Accountability Board.
- ☐ Establish contact with the TSC Offsite Team Leader.
- ☐ Determine location of offsite field teams and indicate on EPZ maps.

Facility Operation:

- ☐ Coordinating FPL teams with DOH-BRC Control teams, and other offsite agencies, if present, and the TSC Offsite Team Leader.
- ☐ Request the TSC offsite Team Leader to send FPL field monitoring teams to survey locations.
- ☐ Compare field team results to dose calculations by performing calculations on Attachment 7 or a similar form.
- ☐ Provide field team data to the Health Physics Manager to supplement Protective Action Recommendations data and to assist in defining the level of emergency classification.

Completed by:_____ Date:_____

ATTACHMENT 22
(Page 1 of 1)

FIELD MONITORING RECORDER CHECK-OFF SHEET

Facility Activation/Operation

NOTE

The following attachment steps may be performed out of sequence.

☐ Sign in on the EOF Access Log and indicate FFD status.

☐ Sign in on the EOF Staff Accountability Board.

☐ Assist the Field Monitoring Coordinator with update of EPZ maps and Field Monitoring Board.

Completed by:_____ Date:_____

ATTACHMENT 23
(Page 1 of 1)

HEALTH PHYSICS NETWORK (HPN) COMMUNICATOR CHECK-OFF SHEET

Facility Activation

NOTE

The following attachment steps may be performed out of sequence.

- ☐ Sign in on the EOF Access Log and indicate FFD status.
- ☐ Sign in on the EOF Staff Accountability Board.
- ☐ Establish connection on the NRC HPN conference bridge, as necessary.

Facility Operation

- ☐ Maintain communications with the NRC through the Health Physics Network (HPN).
- ☐ Log all questions from the NRC in the logbook.
- ☐ Obtain answers to questions from the appropriate EOF personnel.
- ☐ Maintain documentation of any significant information provided or received.
- ☐ Assist the Health Physics Manager, as necessary.

Completed by:_____ Date:_____

ATTACHMENT 24
(Page 1 of 2)
EMERGENCY TECHNICAL MANAGER (ETM)
CHECK-OFF SHEET

Facility Activation

NOTE

The following attachment steps may be performed out of sequence.

☐ Sign in on the EOF Access Log, indicate FFD status, and ensure that all Engineering staff sign in and indicate FFD status upon entry.

☐ Sign in on the EOF Staff Accountability Board and ensure that all Engineering staff sign in upon entry.

CAUTION

Use controlled documents and drawings for Engineering Assessments and Evaluations.

☐ Obtain controlled procedures for use by Engineering staff.

☐ Ensure staffing is in place and communications have been established with the TSC.

☐ Obtain system availability status from System Operations or the TSC Lead Engineer.

☐ Obtain an update from the TSC Engineering staff of previous and current events.

NOTE

See Enclosure 4 for ERDADS data point descriptions for Turkey Point Plant.

☐ Obtaining data from ERDADS for use by EOF staff.

☐ Ensure computers have been turned on and functionally checked.

☐ Ensure aperture card readers and microfiche readers are turned on and functional.

Inform the Recovery Manager when the Engineering staff is ready to perform the following:

☐ a. Engineering assessment of the event.

☐ b. Evaluation of long term plant actions to mitigate consequences of the event.

☐ c. Core damage assessment in accordance with 0-EPIP-1302, PTN Core Damage Assessment.

____ Inform the Recovery Manager that you have completed your activation steps.

ATTACHMENT 24
(Page 2 of 2)

EMERGENCY TECHNICAL MANAGER (ETM)
CHECK-OFF SHEET

Facility Operation

CAUTION

Engineering staff should not request or direct site staff to perform any operational actions. Engineering evaluations should be given to the ETM.

☐ Promptly inform the Recovery Manger of engineering recommendations, determinations or analysis results.

☐ a. The Engineering Technical Response Worksheet, Attachment 5, or similar form should be used to document engineering recommendations, determinations or results.

☐ b. The Emergency Technical Manager Task Board should be used to track tasks assigned to the EOF Engineering Staff.

Ensure that the following items are performed:

☐ a. Plant conditions via ERDADS are available to the EOF Engineering Staff.

☐ b. Core damage assessment calculations are performed as appropriate.

☐ Support the TSC in problem solving based on engineering design and as built construction details. This service shall be performed under the direction of the Recovery Manager.

☐ Evaluate long-term plant actions to mitigate the consequences of the event.

☐ Request occasional updates on TSC Engineering tasks via fax or phone, as necessary.

☐ Inform the RM of engineering recommendations, determination or analysis results.

☐ Assist the RM in preparing for briefings.

☐ Participate in briefings, as necessary.

☐ Maintain a log of activities.

Completed by:_____ Date:_____

ATTACHMENT 25
(Page 1 of 3)

EMERGENCY CONTROL OFFICER (ECO)
CHECK-OFF SHEET

Facility Activation

NOTE

The following attachment steps may be performed out of sequence.

☐ Sign in on the EOF Access Log, indicate FFD status, and ensure the EIM/ENC Technical Advisors and NDDO sign in and indicate FFD status upon entry.

☐ Sign in on the EOF Staff Accountability Board and ensure the EIM/ENC Technical Advisors and NDDO sign in upon entry.

☐ Ensure the EIM has the necessary EIM/ENC Technical Advisors.

☐ Ensure the ENC staff is available to support the EIM.

☐ Ensure the County EOC Technical Advisors are in place to support the county EOCs.

☐ Inform the Recovery Manager that you have completed your activation steps.

Facility Operation

☐ Assist with governmental agency and Regulatory Affairs interface.

☐ a. Updates to Tallahassee Governmental Affairs for Unusual Events may be performed on a case by case basis.

☐ b. Information updates to Tallahassee Governmental Affairs should be performed for an Alert or higher classification.

When the EOF is activated:

NOTE

See Enclosure 1 for directions to the State EOC in Tallahassee.

☐ a. Dispatch a Governmental Affairs person to the State EOC to provide interface as directed.

☐ b. Provide liaison functions to elected or appointed public officials.

ATTACHMENT 25
(Page 2 of 3)

EMERGENCY CONTROL OFFICER (ECO)
CHECK-OFF SHEET

Facility Operation (Cont'd)

☐ c. Answer any questions or comments from:

☐ (1) Nuclear Regulatory Commission

☐ (2) Division of Emergency Management

☐ (3) Department of Health – Bureau of Radiation Control

☐ (4) County Emergency Management

☐ (5) Regulatory Affairs

☐ d. Interface with the Governor's Advisor and with the County EOC Technical Advisors.

CAUTION

The NDDO should remain readily accessible to function for interim ECO notification purposes until the ECO is at the EOF. The NDDO should then proceed to the EOF. As practical, while enroute to the EOF, the ECO should contact the NDDO for updates on plant conditions.

☐ Review the plant status, radiological concerns, and EOF staffing with the RM.

CAUTION

The ECO must approve news releases prior to their issue. This approval may be verbal or in writing.

☐ Contact the EIM and get an update on the status of draft news releases. If not already done, a news release should be issued as soon as practical after the EOF is operational with an update of plant conditions.

ATTACHMENT 25
(Page 3 of 3)

EMERGENCY CONTROL OFFICER (ECO) CHECK-OFF SHEET

Facility Operation (Cont'd)

- ☐ Continue to maintain awareness of plant conditions, media interest and news references, and governmental agencies' actions and concerns.
- ☐ Perform a technical spokesperson function in news media briefings utilizing the guidelines in Enclosure 5 as necessary.
- ☐ Ensure the RM is informed of activities involving the GAM, Regulatory Affairs, and Risk Manager.
- ☐ Ensure the RM is aware of primary concerns of the media and the public.

Completed by:_____ Date:_____

ATTACHMENT 26
(Page 1 of 1)

NUCLEAR DIVISION DUTY OFFICER (NDDO)
CHECK-OFF SHEET

Facility Activation

NOTE

The following attachment steps may be performed out of sequence.

☐ Sign in on the EOF Access Log and indicate FFD status.

☐ Sign in on the EOF Staff Accountability Board.

☐ Serve as advisor to the EIM, GAM, Regulatory Affairs or Risk Manager on technical matters as necessary.

☐ Locate the ECO Logbook and initiate logkeeping for the ECO.

Facility Operation

☐ Serve as ECO in the EOF until a designated ECO is obtained and proper turnover has been given, or during periods of time when the ECO leaves the facility.

NOTE

The phone number for INPO can be found in the ERD.

☐ For alert classifications or higher, notify INPO and provide a brief update of the event.

☐ a. Request INPO assistance to submit press over Nuclear Network, and informing FPL of any media inquiries or industry assistance of the event.

☐ b. Document conversations in the ECO Logbook.

☐ Provide support to the ECO as necessary.

Completed by:_____ Date:_____

ATTACHMENT 27
(Page 1 of 1)

EMERGENCY INFORMATION MANAGER (EIM)/
EMERGENCY NEWS CENTER (ENC)
TECHNICAL ADVISORS
CHECK-OFF SHEET

Facility Activation

NOTE

The following attachment steps may be performed out of sequence.

☐ Sign in on the EOF Access Log and indicate FFD status.

☐ Sign in on the EOF Accountability Board.

☐ Report to the Emergency Information Manager for special instructions.

Facility Operation

NOTE

One Tech Advisor is normally assigned to support the EIM in the EOF with press releases while the other will assist the ENC with media briefings.

☐ Provide technical assistance to the EIM/ENC Manager and staff.

☐ Assist the EIM with preparation of press releases.

☐ Provide technical expertise and answer questions during briefings of the media (Reference Enclosure 5).

☐ Provide technical expertise and answer questions for the other agencies' Public Information Officers.

☐ Maintain contact with the other technical advisor or RM Staff member to make sure that information is current and accurate and to provide feedback on issues discussed with the media.

Completed by:_____ Date:_____

ATTACHMENT 28
(Page 1 of 1)

COUNTY EMERGENCY OPERATIONS CENTER (EOC)
TECHNICAL ADVISORS
CHECK-OFF SHEET

Facility Activation/Operation

NOTE

The following attachment steps may be performed out of sequence.

☐ Proceed to the assigned County EOC when instructed to do so.

NOTE

Phone numbers for the ENC and EOF may be found in the ERD, Section 4.0.

☐ Introduce yourself to the County EOC staff.

☐ Establish contact with a member of the EOF RM Staff to obtain technical information (emergency status information, reports on plant recovery, etc.).

☐ Establish contact with the ENC Technical Advisor for non-technical, public concerns.

☐ Provide contacts in the EOF/ENC with a number where you can be reached.

☐ Advise the County EOC staff on the plant status and status of the emergency.

☐ Participate in EOC briefings.

☐ Advise the ENC of any county actions that have been taken or are under consideration, including Emergency Alert System messages and all protective actions initiated by the county.

☐ Alert the ENC prior to activation of the EPZ Siren System by Dade County.

☐ When county EOC personnel ask questions regarding activities taking place at any FPL facility, contact the ENC Technical Advisor or a member of the RM staff for answers.

☐ Stay abreast of rumors that come into the County or State Rumor Control and pass on information (and responses) to the ENC so all responses will be consistent.

☐ Verify receipt of any FPL news releases sent to the EOC.

☐ Keep a log of all activities at the EOC and a record of questions called into the EOF/ENC and responses received.

Completed by:_____ Date:_____

FINAL PAGE

*/MR/bsc/ev/ev