



MAY 02 2002
L-2002-074
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 three Emergency Plan Implementing Procedures have been revised:

0-EPIP-20111, "Re-Entry"

0-EPIP-20106, "Natural Emergencies"

0-EPIP-20132, "Technical Support Center (TSC) Activation And Operation"

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 the procedures is attached. The implementation date for these procedure changes was April 9, 2002. FPL has determined that the changes described do not result in a decrease in the effectiveness of the Emergency Plan.

Very truly yours,

John P. McElwain
Vice President
Turkey Point Plant

CLM

Attachment, enclosure

NRC Regulatory Issue Summary 2001-05 waived the requirements that multiple copies of documents be submitted to the NRC.

A045

0-EPIP-20111, Re-Entry:

Deleted reference to 3/4-OP-094.3, Hydrogen Recombiner Acquisition, Installation and Operation, on page 4.

Deleted references to the Hydrogen Recombiner and Post Accident Containment Ventilation System (PACVS), on pages 9 and 14.

Added clarification for PASS sample to include the word “grab,” section 5.6.1, page 14.

0-EPIP-20106, Natural Emergencies:

Deleted reference to Hydrogen Recombiner, on page 39.

0-EPIP-20132, Technical Support Center (TSC) Activation And Operation:

Changed reference from FTS-2000 to read FTS-2001, on page 11.

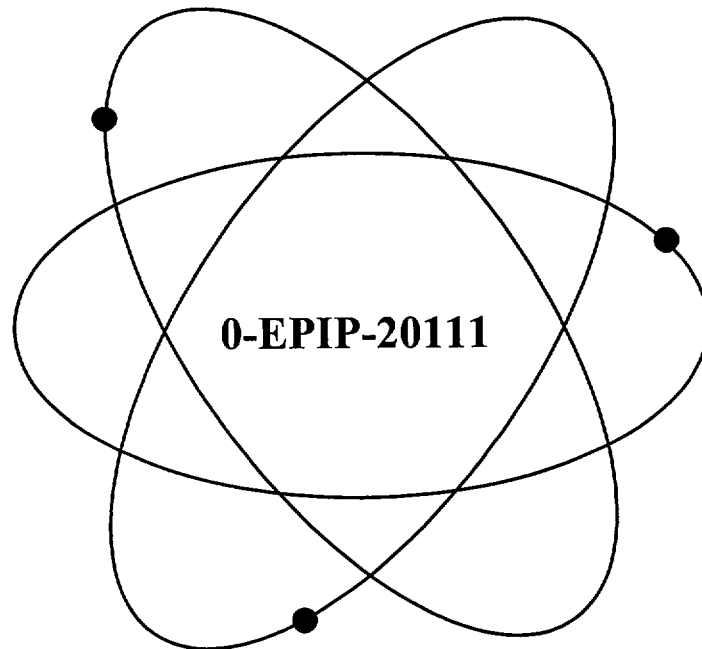
Added instructions for TSC Operations Manager to set up communications with the OSC Operations Supervisor, on page 46.

Deleted reference to Hydrogen Recombiner, on page 65.

By License Amendments 217 and 211, to Units 3 and 4 respectively, the NRC approved deletion of the requirements for the Hydrogen Recombiner and the Post Accident Containment Ventilation System. As part of the implementation of the amendments, these three EPIPs were revised.

Florida Power & Light Company

Turkey Point Nuclear Plant



Title:

Re-Entry

Safety Related Procedure

<i>Responsible Department:</i>	Emergency Preparedness
<i>Revision Approval Date:</i>	3/14/02

RTSs 97-0887P, 99-0568, 02-0089P

Procedure No.:	Procedure Title:	Page:
0-EPIP-20111	Re-Entry	2
		Approval Date:
		3/14/02

LIST OF EFFECTIVE PAGES

<u>Page</u>	<u>Revision Date</u>
1	03/14/02
2	03/14/02
3	09/29/99
4	03/14/02
5	09/29/99
6	09/29/99
7	09/29/99
8	09/29/99
9	03/14/02
10	09/29/99
11	09/29/99
12	09/29/99
13	09/29/99
14	03/14/02
15	09/29/99
16	09/29/99
17	09/29/99
18	09/29/99C
19	09/29/99
20	09/29/99

Procedure No.: 0-EPIP-20111	Procedure Title: Re-Entry	Page: 3
		Approval Date: 9/29/99

TABLE OF CONTENTS

<u>Section</u>	<u>Page</u>
1.0 <u>PURPOSE</u>	4
2.0 <u>REFERENCES/RECORDS REQUIRED/ COMMITMENT DOCUMENTS</u>	4
3.0 <u>RESPONSIBILITIES</u>	6
4.0 <u>DEFINITIONS</u>	7
5.0 <u>PROCEDURE</u>	8
 <u>ENCLOSURE/ATTACHMENTS</u>	
<u>Enclosure 1</u>	
Emergency Worker Exposure Limits	15
<u>Enclosure 2</u>	
Guidelines For Issuing Emergency Dosimetry	17
<u>Attachment 1</u>	
Team Briefing/Debriefing Form	18
<u>Attachment 2</u>	
Emergency Exposure Authorization Form.....	20

Procedure No.:	Procedure Title:	Page:
0-EPIP-20111	Re-Entry	4
		Approval Date:
		3/14/02

1.0 PURPOSE

- 1.1 This procedure provides guidelines for the formation of Emergency Response Teams during an emergency or recovery phase and provides instructions on emergency exposure controls during re-entry.

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-20101, Duties of Emergency Coordinator
3. 0-EPIP-20129, Emergency Response Team, Radiological Monitoring
4. 0-EPIP-20132, Technical Support Center (TSC) Activation and Operation
5. 0-EPIP-20133, Operations Support Center (OSC) Activation and Operation
6. 3/4-EOP-FR-Z.1, Response to High Containment Pressure
7. 3/4-NCZP-051.1, Obtaining a Containment Air Sample During Emergency Conditions
8. 3/4-NCZP-094.1, Obtaining a Unit 3 (Unit 4) PASS Sample During Emergency Conditions
9. 3/4-OP-094, Containment Post Accident Monitoring Systems

2.1.2 Regulatory Guidelines

1. 10 CFR 20, Standards for Protection Against Radiation
2. 10 CFR 50.47, Emergency Plans

Procedure No.:	Procedure Title:	Page:
0-EPIP-20111	Re-Entry	5
		Approval Date:
		9/29/99

2.1.3 Miscellaneous Documents (PC/M, Correspondence, etc.)

1. Turkey Point Plant Radiological Emergency Plan
2. JNS-HP-93-037, Radiological Exposure Control - Emergency Worker Dose Limits
3. JPN-PTN-SENJ-90-073, Safety Evaluation Related to Operation of the Post Accident Containment Ventilation System at Turkey Point Units 3 and 4, Revision 1
4. JNO-HP-94-056, Revision to Policy Statement Concerning Emergency Exposure Limits

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 EP Coordinator who shall review and retain for archival purposes:

1. Copies of the emergency responders bound logs.
2. Copies of Emergency Response Team radiological survey records.
3. Other records developed to record emergency response activities.

2.2.3 Personnel exposure records and radiological survey records are retained by Health Physics in accordance with QA Records requirements.

2.3 Commitment Documents

- 2.3.1 None

Procedure No.:	Procedure Title:	Page:
0-EPIP-20111	Re-Entry	6
		Approval Date:
		9/29/99

3.0 **RESPONSIBILITIES**

3.1 The Emergency Coordinator is responsible for:

- 3.1.1 Authorizing emergency exposures to exceed 10 CFR 20 limits.
- 3.1.2 Authorizing all re-entry activities.

3.2 The TSC Health Physics Supervisor is responsible for:

- 3.2.1 Ensuring that exposure limits are followed by Emergency Response Team members.
- 3.2.2 Coordinating all Health Physics response activities.

3.3 The OSC Manager is responsible for coordinating the activities of all Emergency Response Teams.

3.4 OSC Health Physics Supervisor is responsible for the following:

- 3.4.1 Ensuring that Emergency Response Teams receive a radiological briefing.
- 3.4.2 Ensuring all Health Physics activities in the OSC are coordinated with the OSC Manager and other discipline supervisors.

3.5 The OSC Mechanical Coordinator, OSC Electrical Coordinator, OSC I&C Coordinator, OSC Chemistry Supervisor, OSC Health Physics Supervisor, and OSC Operations Supervisor are responsible for:

- 3.5.1 Planning re-entry activities and assigning qualified personnel to the Emergency Response Teams as determined by the OSC Manager.
- 3.5.2 Ensuring Emergency Response Team members are briefed and debriefed for re-entry activities.

Procedure No.:	Procedure Title:	Page:
0-EPIP-20111	Re-Entry	7
		Approval Date:
		9/29/99

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.
- 4.3 Emergency Exposure: Radiation exposures during a declared emergency to individuals involved in mitigating or life saving actions which may exceed 10 CFR 20 limits.
- 4.4 Emergency Re-entry Actions: Actions taken within the Protected Area to mitigate an emergency.
- 4.5 Recovery Re-entry Actions: Actions taken within the Protected Area to return the plant to its pre-accident conditions.
- 4.6 Total Effective Dose Equivalent (TEDE): The sum of the deep dose equivalent and the committed effective dose equivalent for internal exposures. The terminology Total Dose is equivalent to TEDE.
- 4.7 Total Organ Dose Equivalent (TODE): The sum of the deep dose equivalent and the committed dose equivalent to an organ.

Procedure No.:	Procedure Title:	Page:
0-EPIP-20111	Re-Entry	8
		Approval Date:
		9/29/99

5.0 PROCEDURE

5.1 General

5.1.1 The following guidelines for emergency exposure of personnel shall be followed during the re-entry operation:

1. Re-entry personnel that have been authorized to exceed regulatory exposure limits should be volunteers, familiar with the risks involved (radiosensitivity of fetuses, effects of acute exposures, etc.), and whose normal duties have trained them for such missions.
2. Declared pregnant adults should not be used as on-site emergency workers.
3. Exposures to emergency workers shall be maintained as low as reasonably achievable (ALARA) and if possible be maintained within site specific radiological exposure guidelines and/or limits identified in 10 CFR 20.
4. Conditions may warrant re-entry into high radiation areas leading to exposure in excess of the regulatory limit. Except for rescue of personnel from a life threatening situation, authorization must be given in advance by the Emergency Coordinator (EC) in consultation with the TSC HP Supervisor (or alternate). If the EOF is operational and as time permits, the EC should obtain concurrence from the Recovery Manager (RM). In any case where regulatory limits have been exceeded, the EC shall notify the RM of the event.
5. If obtaining EC approval for exposure in excess of the regulatory limit will result in leaving the accident scene or decrease the victim(s) chance of survival, life-saving actions may be performed without obtaining EC approval. The EC shall be notified immediately following the rescue operation.
6. Emergency exposures requiring immediate action are not planned and are not controlled as a Planned Special Exposure. Dose received from exposure under emergency conditions will be added to the dose received during the current year, prior to the emergency, to determine compliance with the occupational dose limits in 10 CFR 20.

Procedure No.:	Procedure Title:	Page:
0-EPIP-20111	Re-Entry	9
		Approval Date:
		3/14/02

5.1.1 (Cont'd)

7. Doses above regulatory limits will require reporting pursuant to 10 CFR 20.2202 and 10 CFR 20.2203. Any dose in excess of the annual limits specified in Section 10 CFR 20.1201(a) will be accounted for in accordance with 10 CFR 20.1206(e). If an individual exceeds any of these limits, then that individual will not be available for additional dose under 10 CFR 20.1201(a)
 8. Emergency worker exposure limits are provided in Enclosure 1.
 9. Guidelines for issuing emergency dosimetry are provided in Enclosure 2.
 10. Some Emergency Response Team activities, such as personnel rescue, may require that Emergency Response Teams be dispatched from the OSC quickly without the benefit of protective clothing and extensive briefings. Such activities shall be carefully evaluated and monitored to maximize personnel safety.
- 5.1.2 Upon OSC activation, an Emergency Response Team dispatched from the OSC shall consist of at least two persons.
- 5.1.3 The Emergency Coordinator has the authority to waive an individuals emergency response training requirements.
- 5.1.4 Re-entry actions shall be either emergency or recovery actions and be authorized by the Emergency Coordinator.
- 5.1.5 As deemed necessary, Emergency Response Teams may be dispatched to perform re-entry activities including accident damage assessment and mitigation, and/or PASS sample gathering.
- 5.1.6 Silver zeolite cartridges shall be disposed of as follows:
1. **IF** non-radioactive, **THEN** handle the cartridge as a characteristic hazardous waste.
 2. **IF** radioactively contaminated, **THEN** handle the cartridge as a mixed waste.

Procedure No.:	Procedure Title:	Page:
0-EPIP-20111	Re-Entry	10
		Approval Date:
		9/29/99

5.2 Upon receiving a team request from the TSC, the OSC Manager should:

5.2.1 Assign an OSC discipline Supervisor/Coordinator responsibility for each organized Emergency Response Team based on the task to be completed.

5.2.2 Ensure the OSC discipline Supervisor/Coordinator responsible for the Emergency Response Team completes the appropriate sections of a form similar to Attachment 1.

1. The completion of team briefing forms shall not delay the dispatch of the Emergency Response Team.

2. Teams may be briefed and dispatched prior to the completion of the forms.

5.2.3 Ensure the OSC Health Physics Supervisor has completed the following tasks:

1. Completed the appropriate sections of a form similar to Attachment 1.

NOTES

- *Radiological briefings should be commensurate with current and potential radiological conditions in the plant.*
- *During the initial phases of an event, radiological information may not be available until after teams have been dispatched. In such cases, the teams should be updated as information is received.*

2. As radiological conditions warrant, the Emergency Response Team should be given a radiological briefing that includes the following:

- a. The maximum allowable dose that may be received by the Emergency Response Team members.
- b. The stay times for the Emergency Response Team.
- c. Possible travel routes for the Emergency Response Team in order to minimize radiological exposures and contamination.

3. Issued dosimetry capable of measuring the anticipated maximum exposure and type of exposure, as required.

4. Guidelines for issuing emergency dosimetry are provided in Enclosure 2.

5. Issued protective clothing and respiratory protection, as necessary.

Procedure No.:	Procedure Title:	Page:
0-EPIP-20111	Re-Entry	11
		Approval Date:
		9/29/99

5.2.3 (Cont'd)

6. Issued adequate survey instrumentation and equipment.
7. For those emergency exposures that may exceed 10 CFR 20 limits, the following shall apply:
 - a. Personnel authorized to receive exposures in excess of 10 CFR 20 limits should be volunteers who are familiar with the risks involved and the tasks to be completed and who shall attest to their volunteer status by completing and signing their individual section of a form similar to Attachment 2.
 - b. Except for rescue of personnel from a life threatening situation, EC authorization shall be obtained for emergency exposures that may exceed 10 CFR 20 limits and shall be documented on a form similar to Attachment 2.
 - c. Declared pregnant adults should not be used as on-site emergency workers.
 - d. The emergency exposure limits for personnel performing actions are provided in Enclosure 1.
 - e. When the emergency condition is terminated, ensure the Nuclear Division Medical Review Officer is notified to perform a medical review of any emergency exposure.

5.2.4 Ensure the Emergency Response Team has received necessary radiological and task briefings.

1. The completion of team briefing forms shall not delay the dispatch of the Emergency Response Team.
2. Teams may be briefed and dispatched prior to the completion of the forms.

Procedure No.:	Procedure Title:	Page:
0-EPIP-20111	Re-Entry	12
		Approval Date:
		9/29/99

- 5.3 Upon dispatching the Emergency Response Team, the OSC Supervisor/Coordinator responsible for the Emergency Response Team should:
 - 5.3.1 Maintain communications with the Emergency Response Team.
 - 5.3.2 Update the Emergency Response Team to changing conditions.
 - 5.3.3 Periodically update the OSC Manager and OSC Status Boards to reflect current status and new information.
 - 5.3.4 Periodically assess the need for additional manpower or equipment support.
 - 5.3.5 Assess physical strain on the Emergency Response Team due to factors such as heat, time in respirator or SCBA, and type of work being done.
 - 5.3.6 If SCBA was required, estimate the time left on the bottled air.
- 5.4 Emergency Response Team members shall perform the following:
 - 5.4.1 Attend pre-job briefings prior to dispatch to the emergency scene.
 - 5.4.2 Utilize protective equipment prescribed by the cognizant supervisors.
 - 5.4.3 Follow instructions for maintaining Emergency Response Facility accountability.
 - 5.4.4 Follow instructions of the Health Physics Emergency Response Team member regarding radiological conditions during travel and task performance.
 - 5.4.5 Follow suggested travel paths to the work location, if possible, without endangering personnel.
 - 5.4.6 Note environmental and radiological conditions for recording and reporting to cognizant supervisors.
 - 5.4.7 Perform assigned tasks at the work scene quickly and efficiently with special attention to industrial and radiological safety measures.
 - 5.4.8 Periodically update the discipline supervisor on the progress of the assigned task(s).

Procedure No.:	Procedure Title:	Page:
0-EPIP-20111	Re-Entry	13
		Approval Date:
		9/29/99

- 5.4.9 Report and record information on the assigned task to the appropriate OSC Supervisor/Coordinator and on a form similar to Attachment 1.
- 5.4.10 Report significant occurrences to cognizant supervisors/coordinators via hand held radios or other available Communication Systems.
- 5.4.11 Following completion of assigned tasks, report back to the OSC for personnel accountability, monitoring, debriefing, and completion of records.
- 5.5 Upon the return of the Emergency Response Team, the OSC Supervisor/Coordinator responsible for the Emergency Response Team should perform the following:
 - 5.5.1 Debrief the Emergency Response Team by completing their form similar to Attachment 1.
 - 5.5.2 Ensure that any significant changes or new observations are reported to the appropriate supervisors and the OSC Manager.
 - 5.5.3 Ensure that new or revised information obtained by the Emergency Response Team is displayed and logged appropriately.
 - 5.5.4 Inform the OSC Manager of the status of the Emergency Response Team and task results.
 - 5.5.5 Ensure that status boards are updated to reflect Emergency Response Team status and task results.
 - 5.5.6 Restrict further exposure and if necessary, ensure the provision of medical care to individuals receiving emergency exposures.

Procedure No.:	Procedure Title:	Page:
0-EPIP-20111	Re-Entry	14
		Approval Date:
		3/14/02

5.6 Operation of the Post Accident Sampling System

- 5.6.1 Following an accident, a grab sample from the Post Accident Sampling System (PASS) may be obtained to determine the condition of the plant. Samples should be obtained using the instructions in procedures 3/4-NCZP-094.1, OBTAINING A UNIT 3 (OR UNIT 4) PASS SAMPLE DURING EMERGENCY CONDITIONS, 3/4-NCZP-051.1, OBTAINING A CONTAINMENT AIR SAMPLE DURING EMERGENCY CONDITIONS and 3/4-OP-094, CONTAINMENT POST ACCIDENT MONITORING SYSTEMS, as necessary.

END OF TEXT

Procedure No.:	Procedure Title:	Page:
0-EPIP-20111	Re-Entry	15
		Approval Date:
		9/29/99

ENCLOSURE 1

(Page 1 of 2)

EMERGENCY WORKER EXPOSURE LIMITS

NOTE

Consult 0-EPIP-20129, Emergency Response Team, Radiological Monitoring for off-site monitoring exposure guidelines.

For the following missions, the exposure limits are (Note 1):	TOTAL DOSE ^(Note 2) (TEDE)	THYROID ^(Note 3) (CDE)
Performance of actions that would not directly mitigate the event, minimize escalation, or minimize effluent releases	5 REM	50 REM
Performance of actions that mitigate the escalation of the event, rescue persons from a <u>non-life</u> threatening situation, minimize exposures or minimize effluent releases.	10 REM	100 REM
Performance of actions that: decrease the severity of the event, or terminate the processes causing the event in an attempt to control effluent releases to avoid extensive exposure of large populations. Also rescue of persons from a <u>life-threatening</u> situation.	25 REM	250 REM
Rescue of persons from a life threatening situation. (Volunteers should be above the age of 45.) ^(Note 4)	(Note 5)	(Note 5)

NOTES

- Both Total Dose (TEDE) and Thyroid Dose (CDE) should be used for purposes of controlling exposure.
- Protective clothing, including respirators, should be used where appropriate.

- (Note 1) Exposure limits to the lens of the eye are three times the Total Dose (TEDE) values listed.
- (Note 2) Total Dose (TEDE) is the total dose from both external and internal (weighted) sources - Total Effective Dose Equivalent.
- (Note 3) Thyroid dose (CDE) commitment from internal sources - Committed Dose Equivalent. The same dose limits also apply to other organs (CDE), skin (Shallow Dose Equivalent), and extremities (Extremity Dose Equivalent).
- (Note 4) Volunteers with full awareness of risks involved, including numerical levels of dose at which acute effects of radiation will be incurred and numerical estimates of the risk of delayed effects.

Procedure No.:	Procedure Title:	Page:
0-EPIP-20111	Re-Entry	16
		Approval Date:
		9/29/99

ENCLOSURE 1
(Page 2 of 2)

EMERGENCY WORKER EXPOSURE LIMITS

(Note 5) No upper limit for Total Dose (TEDE) and/or Thyroid Dose (CDE) dose has been established because it is not possible to pre-judge the risks that one person should be allowed to take to save the life of another. Also, no specific limit is given for the thyroid, since in the extreme case, complete thyroid loss might be acceptable sacrifice for a life saved. This should not be necessary, if respirators and/or thyroid protection for rescue personnel are available as the result of adequate planning.

Procedure No.:	Procedure Title:	Page:
0-EPIP-20111	Re-Entry	17
		Approval Date:
		9/29/99

ENCLOSURE 2
(Page 1 of 1)

GUIDELINES FOR ISSUING EMERGENCY DOSIMETRY

- One exposure guideline shall be utilized for ALL Emergency Response Team members when issuing emergency dosimetry:

DEEP DOSE EQUIVALENT
(DDE)

3 REM

COMMITTED DOSE EQUIVALENT
(CDE)

25 REM

- Emergency responders that do not have an active TLD shall be issued dosimetry with the following exposure guideline:

TOTAL EFFECTIVE DOSE EQUIVALENT
(TEDE)

100 MREM

- Emergency responders that bring their TLD with them to the emergency facilities **DO NOT** need to be issued an additional emergency TLD, however, depending on their particular emergency response function they may require additional emergency dosimetry.
- Emergency responders required to stay in the field during and after the activation of the emergency facilities may not have a form of dosimetry. **ALL** field teams shall be required to have some form of emergency dosimetry. Arrangements shall be made to supply those field teams with dosimetry. The only exception to this requirement would be plant conditions that prohibit the transport of dosimetry to those teams because it would pose a greater risk to the personnel involved.

Procedure No.: 0-EPIP-20111	Procedure Title: Re-Entry	Page: 18
		Approval Date: 9/29/99C

ATTACHMENT 1
(Page 1 of 2)
TEAM BRIEFING/DEBRIEFING FORM

I. Team Number: _____	Date: _____	OSC Mgr..... X-6480
Team Members:		OSC Chem Supv..... X-6978
_____	_____	OSC HP Supv..... X-6575
_____	_____	OSC HPSS..... X-6988
_____	_____	OSC HP Comm..... X-6103
Task Description: _____		OSC Ops Supv..... X-7168
_____		OSC Mech Coord..... X-6680
Location /Travel Route		OSC Elect Coord..... X-6681
_____		OSC I&C Coord..... X-6682
_____		OSC Security..... X-6779
_____		OSC Recorder..... X-6657
		OSC Re-entry Coord..... X-6794
		OSC Supv..... X-6659

II. ANTICIPATED RADIOLOGICAL CONDITIONS:

NOTE: Initially, this information may not be available. The completion of this form should not delay the dispatch of the team. If non-applicable, continue with section III.

Exposure Levels:	Average General Area: _____ mrem/hr
	Hot Spots: Yes ☐ No ☐ Intensity: _____ mrem/hr
	Maximum Allowable Dose: _____ mrem
	Stay Time: _____ Extremity or Multibadging (Circle One)
Surface Contamination:	Surface (dpm/100 cm ²): _____ β / γ _____ α
	Is contamination wet? Yes ☐ No ☐ Plastics? Yes ☐ No ☐
Airborne Activity:	_____ DAC _____ μ Ci/ml
	Respiratory Protection? Yes ☐ No ☐
	If Yes, type: PC FA BH SCBA (Circle)
	If No, Faceshield?: Yes ☐ No ☐
Meteorological Conditions:	Wind Direction (from - to): _____ Wind Speed: _____
	On-site or Off-site Areas Evacuated or Sheltered: _____

III. TEAM BRIEFING INFORMATION:

System / Component: _____	Isolation Required: Yes ☐ No ☐
Safety: _____	
Equipment/Instrumentation: _____	
Communications Method/Backup/Frequency: _____	
Special Instructions (keys required, SCBA stay times, etc.): _____	

IV. SIGNATURES / APPROVAL:

Assignment Briefing By: _____	Time: _____
Responsible OSC Supervisor/Coordinator	
Radiological Briefing By: _____	Time: _____
Health Physics	
Team Dispatch Approved: _____	Time Team Out: _____
OSC Manager	

NOTE: A COPY OF THIS FORM SHOULD ACCOMPANY THE TEAM.

Procedure No.: 0-EPIP-20111	Procedure Title: Re-Entry	Page: 20
		Approval Date: 9/29/99

ATTACHMENT 2
(Page 1 of 1)

EMERGENCY EXPOSURE AUTHORIZATION FORM

Date: _____

I have been briefed on the radiological consequences and hazards associated with the authorized emergency exposure, and I have volunteered to perform the task described below:

<u>Name of Individual(s)</u>	<u>Social Security Number</u>	<u>TLD Number</u>	<u>Signature</u>	<u>Time</u>
_____	_____	_____	_____	_____
_____	_____	_____	_____	_____
_____	_____	_____	_____	_____
_____	_____	_____	_____	_____
_____	_____	_____	_____	_____

Brief Description of Task: _____

Authorization Limit: _____

Briefing Completed By: _____ Time: _____
 (Signature)

OSC Health Physics Supervisor: _____ Time: _____
 (Signature)

OR

TSC Health Physics Supervisor: _____ Time: _____
 (Signature)

Emergency Exposure Authorized by:

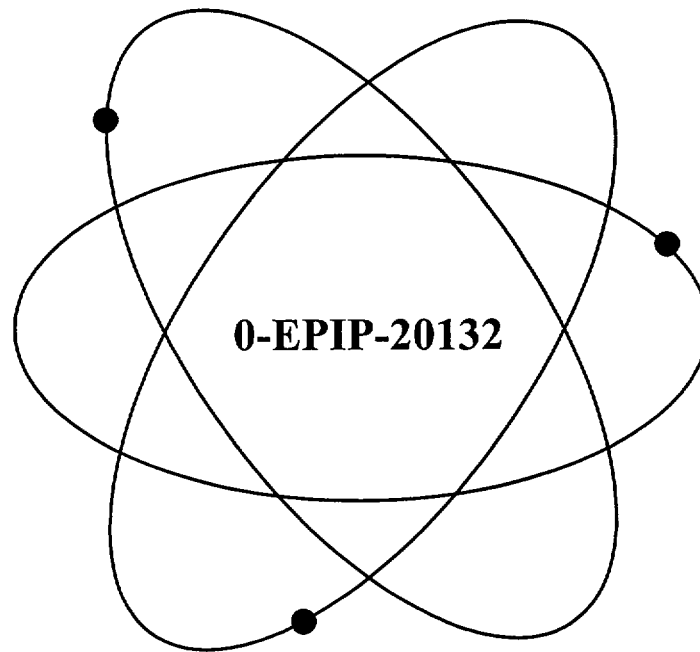
Emergency Coordinator: _____ Time: _____
 (Signature)

NOTE: Signatures required by TSC personnel may be authorized by phone or fax.

FINAL PAGE

Florida Power & Light Company

Turkey Point Nuclear Plant



Title:

Technical Support Center (TSC) Activation and Operation

Safety Related Procedure

<i>Responsible Department:</i>	Emergency Preparedness
<i>Revision Approval Date:</i>	3/14/02

*RTSs 96-0628P, 97-0668, 97-1405, 99-0258P, 00-0248P, 00-0465P,
02-0089P*

Procedure No.:	Procedure Title:	Page:
0-EPIP-20132	Technical Support Center (TSC) Activation and Operation	2
		Approval Date:
		3/14/02

LIST OF EFFECTIVE PAGES

<u>Page</u>	<u>Revision Date</u>	<u>Page</u>	<u>Revision Date</u>	<u>Page</u>	<u>Revision Date</u>
1	03/14/02	25	02/15/01C	49	02/15/01
2	03/14/02	26	02/15/01	50	02/15/01
3	02/15/01	27	02/15/01	51	02/15/01
4	02/15/01	28	02/15/01	52	02/15/01
5	02/15/01	29	02/15/01	53	02/15/01
6	02/15/01	30	02/15/01	54	02/15/01
7	02/15/01	31	02/15/01	55	02/15/01
8	02/15/01	32	02/15/01	56	02/15/01
9	02/15/01	33	02/15/01	57	02/15/01
10	02/15/01	34	02/15/01	58	02/15/01
11	03/14/02	35	02/15/01	59	02/15/01
12	02/15/01	36	02/15/01	60	02/15/01
13	02/15/01	37	02/15/01	61	02/15/01
14	02/15/01	38	02/15/01	62	02/15/01
15	02/15/01	39	02/15/01	63	02/15/01
16	02/15/01	40	02/15/01	64	02/15/01
17	02/15/01	41	02/15/01	65	03/14/02
18	02/15/01	42	02/15/01	66	02/15/01
19	02/15/01	43	02/15/01	67	02/15/01
20	02/15/01	44	02/15/01	68	02/15/01
21	02/15/01	45	02/15/01		
22	02/15/01	46	03/14/02		
23	02/15/01	47	03/14/02		
24	02/15/01	48	02/15/01		

Procedure No.:	Procedure Title:	Page:
0-EPIP-20132	Technical Support Center (TSC) Activation and Operation	3
		Approval Date: 2/15/01

TABLE OF CONTENTS

<u>Section</u>	<u>Page</u>
1.0 <u>PURPOSE</u>	6
2.0 <u>REFERENCES/RECORDS REQUIRED/</u> <u>COMMITMENT DOCUMENTS</u>	6
3.0 <u>RESPONSIBILITIES</u>	7
4.0 <u>DEFINITIONS</u>	12
5.0 <u>PROCEDURE</u>	13
5.1 Activation of the TSC	14
<u>FIGURE/ENCLOSURES/ATTACHMENTS</u>	
<u>Figure 1</u>	
Technical Support Center Layout	16
<u>Enclosure 1</u>	
Emergency Response Data System Operation	17
<u>Enclosure 2</u>	
Verification and Operability Check for the TV Monitoring System	19
<u>Enclosure 3</u>	
Guidelines for Maintaining TSC Status Boards	21
<u>Enclosure 4</u>	
TSC Status Board Maintenance Responsibilities	22
<u>Enclosure 5</u>	
Use of Speed Memos.....	23
<u>Enclosure 6</u>	
Control of Re-Entry Teams	24
<u>Attachment 1</u>	
Florida Nuclear Plant Emergency Notification Form	25

Procedure No.:	Procedure Title:	Page:
0-EPIP-20132	Technical Support Center (TSC) Activation and Operation	4
		Approval Date: 2/15/01

TABLE OF CONTENTS (Cont'd)

<u>Section</u>	<u>Page</u>
<u>Attachment 2</u>	
Event Notification Worksheet.....	28
<u>Attachment 3</u>	
Emergency Plan Security Checklist.....	30
<u>Attachment 4</u>	
TSC Emergency Ventilation System Performance Log.....	33
<u>Attachment 5</u>	
TSC Briefing Form.....	34
<u>Attachment 6</u>	
TSC Staff Accountability Log.....	35
<u>Attachment 7</u>	
Security Accountability Sheet.....	37
<u>Attachment 8</u>	
First Responder Check-Off Sheet	38
<u>Attachment 9</u>	
TSC Supervisor Check-Off Sheet	40
<u>Attachment 10</u>	
Technical Assistant to Emergency Coordinator Check-Off Sheet.....	43
<u>Attachment 11</u>	
TSC Maintenance Manager Check-Off Sheet.....	44
<u>Attachment 12</u>	
TSC Operation Manager Check-Off Sheet	46
<u>Attachment 13</u>	
TSC Health Physics Supervisor Check-Off Sheet	48
<u>Attachment 14</u>	
TSC Chemistry Supervisor Check-Off Sheet.....	50

Procedure No.:	Procedure Title:	Page:
0-EPIP-20132	Technical Support Center (TSC) Activation and Operation	5
		Approval Date: 2/15/01

TABLE OF CONTENTS (Cont'd)

<u>Section</u>	<u>Page</u>
<u>Attachment 15</u>	
TSC Dose Assessment Technician Check-Off Sheet.....	52
<u>Attachment 16</u>	
TSC Security Supervisor Check-Off Sheet.....	53
<u>Attachment 17</u>	
TSC Licensed Operator Check-Off Sheet.....	55
<u>Attachment 18</u>	
TSC Plant Data Status Board Keeper Check-Off Sheet.....	56
<u>Attachment 19</u>	
TSC Plant Data Communicator Check-Off Sheet.....	57
<u>Attachment 20</u>	
TSC ENS Communicator Check-Off Sheet.....	58
<u>Attachment 21</u>	
TSC State/County Communicator Check-Off Sheet.....	60
<u>Attachment 22</u>	
TSC Site Corporate Communicator Check-Off Sheet	61
<u>Attachment 23</u>	
TSC EOF Communicator Check-Off Sheet.....	62
<u>Attachment 24</u>	
TSC Lead Engineer Check-Off Sheet	63
<u>Attachment 25</u>	
TSC Tech Support Group Check-Off Sheet.....	66
<u>Attachment 26</u>	
TSC ERDADS Operator Check-Off Sheet	67
<u>Attachment 27</u>	
TSC Document Control Personnel Check-Off Sheet.....	68

Procedure No.:	Procedure Title:	Page:
0-EPIP-20132	Technical Support Center (TSC) Activation and Operation	6
		Approval Date: 2/15/01

1.0 PURPOSE

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

2.0 REFERENCES/RECORDS REQUIRED/COMMITMENT DOCUMENTS

2.1 References

2.1.1 Plant Procedures

1. 0-ADM-207, Operations Instructions in the Event of a Situation Not Addressed by Procedure
2. 0-EPIP-1302, PTN Core Damage Assessment
3. 0-EPIP-20101, Duties of the Emergency Coordinator
4. 0-EPIP-20106, Natural Emergencies
5. 0-EPIP-20126, Off-site Dose Calculations
6. 0-EPIP-20133, Operations Support Center (OSC) Activation and Operation
7. 0-HPT-013.3, Calibration and Operation of the Eberline Beta Monitoring System Model AMS-3(A)

2.1.2 Miscellaneous Documents (PC/M, Correspondence etc.)

1. Turkey Point Plant Radiological Emergency Plan
2. Emergency Response Directory
3. PC/M 92-134, ERDADS/SAS Datalink to the Emergency Response Data System
4. SFI-6307, Emergency Evacuation and Accountability

Procedure No.:	Procedure Title:	Page:
0-EPIP-20132	Technical Support Center (TSC) Activation and Operation	7
		Approval Date: 2/15/01

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 The various supervisors in the TSC shall maintain logbooks of activities performed during a plant emergency. Logbooks shall be stored in the applicable areas in the TSC.

2.2.3 Upon deactivation of the TSC, the following completed documents shall be transmitted to the Emergency Preparedness Coordinator for review and retention for archival purposes:

1. TSC Staff Accountability Log (form similar to Attachment 6)
2. All TSC Position Check-off Sheets (Attachments 8 through 27)

2.3 Commitment Documents

2.3.1 None

3.0 RESPONSIBILITIES

3.1 Emergency Response Organization Members assigned to the TSC are responsible for:

- 3.1.1 Bringing any available two-way radios to the TSC for emergency use if not needed in the OSC.
- 3.1.2 Assisting in the Activation/Operation of the TSC in accordance with Section 5.0 of this procedure.
- 3.1.3 Using Speed Memos to request tasks/information, as appropriate.
- 3.1.4 Performing tasks as requested by their supervisors.

3.2 The TSC Supervisor is responsible for:

- 3.2.1 Reviewing requests from the Technical Support Group.
- 3.2.2 Reviewing and recommending approval of Team Request Speed Memos.
- 3.2.3 Reviewing and routing Speed Memos to the appropriate supervisor.

Procedure No.:	Procedure Title:	Page:
0-EPIP-20132	Technical Support Center (TSC) Activation and Operation	8
		Approval Date: 2/15/01

- 3.2.4 Ensuring accountability within the TSC is maintained.
- 3.2.5 Directing the activities of the Technical Support Group.
- 3.2.6 Ensuring communication links are functional and established.
- 3.2.7 Providing technical assessment to the Control Room operating staff.
- 3.2.8 Ensuring timely and accurate data/information is provided to the EOF.
- 3.2.9 Ensuring timely and accurate updates of the TSC Status Boards and other informational systems.
- 3.2.10 Ensuring the implementation of 0-EPIP-1302, PTN Core Damage Assessment.
- 3.2.11 Coordinating and verifying facility operational readiness.
- 3.2.12 Ensuring initial and follow-up notifications to the State Warning Point, Dade County and Monroe County are provided.
- 3.2.13 Consulting with the TSC Operations Manager and the Emergency Coordinator on the need to implement Severe Accident Management Guidelines (SAMGs).
- 3.2.14 Reviewing team priorities on the Team Tracking Board.
- 3.3 The Technical Assistant to the Emergency Coordinator is responsible for:
 - 3.3.1 Tracking plant progress through the Emergency Action Levels and providing recommendations to the Emergency Coordinator.
 - 3.3.2 Providing SRO expertise in the TSC for accident assessment functions.
 - 3.3.3 Assisting the TSC Operations Manager in following the Control Room transitions through the Emergency Operating Procedures.
 - 3.3.4 Assisting the Emergency Coordinator in developing Protective Action Recommendations based on Plant Conditions and Off-site Dose Projections.
 - 3.3.5 Ensuring that Protective Action Recommendations made by FPL and Protective Actions issued by government agencies are posted in the TSC.

Procedure No.:	Procedure Title:	Page:
0-EPIP-20132	Technical Support Center (TSC) Activation and Operation	9
		Approval Date: 2/15/01

- 3.4 The TSC Maintenance Manager is responsible for ensuring the completion of the following:
 - 3.4.1 Taking requests for Emergency Response Teams (ERT) that have been approved by the Emergency Coordinator and instructing the OSC in the formation of the ERT.
 - 3.4.2 Tracking and updating ERT progress and providing feedback to the TSC Operations Manager.
 - 3.4.3 Updating the OSC Manager with pertinent information and providing team priorities.
 - 3.4.4 Obtaining Company vehicles for use by Off-site ERT.
- 3.5 The TSC Operations Manager is responsible for:
 - 3.5.1 Forwarding requests for teams from the Control Room to the Emergency Coordinator.
 - 3.5.2 Advising the Emergency Coordinator on operational concerns and requirements.
 - 3.5.3 Following the transition between Emergency Operating Procedures (EOPs).
 - 3.5.4 Providing Protective Action Recommendations based on Plant Conditions to the Emergency Coordinator.
 - 3.5.5 Providing feedback to the Control Room on the status of team activities.
- 3.6 The TSC Health Physics Supervisor is responsible for:
 - 3.6.1 Providing off-site radiological data to the TSC Chemistry Supervisor.
 - 3.6.2 Coordinating the use of the Off-site ERTs with the EOF.
 - 3.6.3 Maintaining communications and updating radiological conditions with the NRC on the Health Physics Network, as required.
 - 3.6.4 Providing information to the Emergency Coordinator on the radiological survey results obtained by the Off-site ERTs.
 - 3.6.5 Assessing plant radiological conditions and providing assessment results to the Operation Support Center (OSC).

Procedure No.:	Procedure Title:	Page:
0-EPIP-20132	Technical Support Center (TSC) Activation and Operation	10
		Approval Date: 2/15/01

- 3.6.6 Providing recommendations on the authorization of emergency exposures to the Emergency Coordinator.
- 3.6.7 Coordinating the activities of the Off-site Assembly Area.
- 3.6.8 Advising the Emergency Response Organization on radiological control matters.
- 3.6.9 Ensuring that personal dosimetry is issued to and periodically checked by TSC emergency responders.
- 3.7 The TSC Chemistry Supervisor is responsible for:
 - 3.7.1 Coordinating the calculation of Off-site Dose Calculations.
 - 3.7.2 Interpreting data and data discrepancies.
 - 3.7.3 Reviewing requests for Chemistry samples.
 - 3.7.4 Providing Protective Action Recommendations based on Off-site Dose Projections to the Emergency Coordinator.
- 3.8 The TSC Security Supervisor is responsible for:
 - 3.8.1 Coordinating the response of the Security Force.
 - 3.8.2 Tracking TSC Staff Accountability.
 - 3.8.3 Providing assistance to local law enforcement agencies as directed.
 - 3.8.4 Ensuring that site accountability is performed and Emergency Coordinator is kept informed of status.
- 3.9 The TSC Licensed Operator Support personnel are responsible for:
 - 3.9.1 Providing operational information and guidance to the TSC Technical Support personnel, and other personnel, as necessary, to effectively coordinate Tech Support activities with Operations and other emergency response personnel.
 - 3.9.2 Monitoring the status of the unaffected unit and reporting any operational concerns or Technical Specification issues to the TSC Lead Engineer and the TSC Operations Manager.
 - 3.9.3 Conducting the following activities in the event the emergency involves a fire:
 - 1. Monitoring the fire brigade response and providing input to the Emergency Coordinator.
 - 2. Ensuring that off-site support is responding, as needed, and providing information to the TSC Supervisor
 - 3. Assisting the fire brigade leader in acquiring additional equipment, as needed.
 - 4. Reviewing the Pre-fire Plan of the effected areas and providing input to the Emergency Coordinator.

Procedure No.:	Procedure Title:	Page:
0-EPIP-20132	Technical Support Center (TSC) Activation and Operation	11
		Approval Date: 3/14/02

3.10 The TSC Plant Data Status Board Keeper is responsible for:

- 3.10.1 Updating plant data on Status Board with current information from ERDADS Printout.
- 3.10.2 Reviewing logs faxed from Control Room for any critical parameters to be placed on status board.
- 3.10.3 Notifying the TSC Supervisor of rapid changes to plant data or any need for further instructions, in accordance with guidelines in Enclosure 3 and Enclosure 4 of this procedure.

3.11 The TSC Plant Data Communicator is responsible for:

- 3.11.1 Establishing communication with the Control Room Communicator.
- 3.11.2 Notifying the TSC Supervisor of rapid changes to plant data or any need for further instructions, in accordance with the guidelines in Enclosure 3 and Enclosure 4 of this procedure.

3.12 The TSC ENS Communicator is responsible for:

- 3.12.1 Verifying operability of the ENS (FTS-2001) phone equipment.
- 3.12.2 Maintaining open line of communications, if requested, with the NRC.

3.13 The TSC Site Corporate Communicator is responsible for:

- 3.13.1 Verifying operability of the TV Monitor System.
- 3.13.2 Notifying the TSC Supervisor when the TV Monitor System is ready for operation or needs corrective actions, as appropriate.

3.14 The TSC Reactor Engineer is responsible for:

- 3.14.1 Monitoring SAMG criteria in the event that the TSC Supervisor is not present in the TSC.

3.15 The TSC Engineering/Maintenance Liason is responsible for:

- 3.15.1 Providing maintenance experience to the Technical Support Group.
- 3.15.2 Acquiring information from the OSC Re-entry Coordinators to support the Technical Support Group.

Procedure No.:	Procedure Title:	Page:
0-EPIP-20132	Technical Support Center (TSC) Activation and Operation	12
		Approval Date: 2/15/01

4.0 DEFINITIONS

- 4.1 State Hot Ring Down Telephone (HRD) - Installed in the Control Room, TSC, Emergency Preparedness Office, and EOF, this system provides dedicated telephone service utilizing pre-designated access codes to notify State and Local Agencies.
- 4.2 Emergency Notification System (ENS) - Installed in the Control Room, TSC, and EOF, this system provides dedicated telephone service to the NRC Operations Center.
- 4.3 Health Physics Network (HPN) - Installed in two locations in the TSC and two locations in the EOF, this system provides dedicated telephone service to the NRC Operations center and NRC Region II response Center for the relay of Health Physics and Environmental Data.
- 4.4 System Control Center Computer Program - A personal computer based software program which accesses the System Operations computer via telephone lines to provide real-time system generation and configuration status. This program is installed on the Technical Support Group computer for Emergency Response use.

Procedure No.:	Procedure Title:	Page:
0-EPIP-20132	Technical Support Center (TSC) Activation and Operation	13
		Approval Date: 2/15/01

5.0 PROCEDURE

NOTES

- Although the Emergency Coordinator duties are transferred to the TSC and the Emergency Coordinator is then functionally a position in the TSC, Emergency Coordinator duties and responsibilities are not defined in this procedure. Regardless of the physical location of the Emergency Coordinator, his responsibilities are to implement 0-EPIP-20101, Duties of the Emergency Coordinator.
- In order to allow for short relief breaks during emergency situations (e.g. for bathroom, drinking, smoking breaks, etc.), the Emergency Coordinator may temporarily turnover his command and control responsibilities to a qualified individual of this staff. The Emergency Coordinator is always responsible for carrying out his non-delegatable duties, and for approving notifications to Federal and State Authorities.
- In order to provide a complete status of Emergency Response Activities, each area supervisor (Operations, Health Physics, Chemistry, Maintenance, Technical Support, etc.) should give status reports of emergency response activities, as necessary, when the Emergency Coordinator reviews the Plant Status and updates ERO personnel.
- Three fax machines are available in the TSC. The OUT-GOING TSC Operations Fax machine is primarily used by the TSC ENS Communicator to transmit notification forms to off-site agencies. The IN-COMING TSC Operations Fax machine is used for receiving information necessary for the operation of the TSC. The TSC HP/Chemistry Fax machine is primarily used to transmit HP/Chemistry information to and from the OSC.
- If a natural emergency occurs, 0-EPIP-20106, Natural Emergencies, has additional duties and responsibilities which may be applicable to the emergency situation.
- Figure 1 is provided as general guidance for set up of the TSC. The TSC is a dedicated facility and should be set up and ready for emergency activities at all times.
- The Security Command Post Operations Advisor is a Licensed Operator stationed in the Security Command Post to provide operational interface and liaison for security personnel during emergency situations when the TSC is activated. Operational questions regarding security should be coordinated through the TSC Security Supervisor with the Security Command Post Operations Advisor. This position is only provided when a security emergency is declared.
- The normal power supply for the TSC is from Breaker 7 on Distribution Panel 85, which is fed from the Florida City Substation line supplying the Administrative Support Buildings (NAB, NMB, NTC, etc.) An alternate power supply for the TSC is from Breaker 31503 on 4C 3G from the 3C 4KV bus. The TSC 480 Volt Automatic Transfer Switch will supply power from the alternate source if normal power is lost. When normal power is regained, the transfer switch will automatically switch back to the normal supply within forty minutes.
- Eating and drinking shall be limited and controlled by the TSC Supervisor, and shall be prohibited whenever habitability surveys reveal any surface or airborne contamination activity.

Procedure No.:	Procedure Title:	Page:
0-EPIP-20132	Technical Support Center (TSC) Activation and Operation	14
		Approval Date: 2/15/01

NOTE

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

5.1 Activation of the TSC

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

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

NOTE

Normally, Security will have the TSC 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 TSC by using the key in the break glass box located outside the TSC.

1. Acquire a copy of Attachment 8, First Responder check-off Sheet from the Document Control File to ensure all required activities are completed.
2. Ensure all steps in Attachment 8, 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 Refer to Enclosures 5 and 6 for use of speed memos and guidance on control of Re-entry teams.

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

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

Procedure No.: 0-EPIP-20132	Procedure Title: Technical Support Center (TSC) Activation and Operation	Page: 15
		Approval Date: 2/15/01

5.2 The following TSC 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:

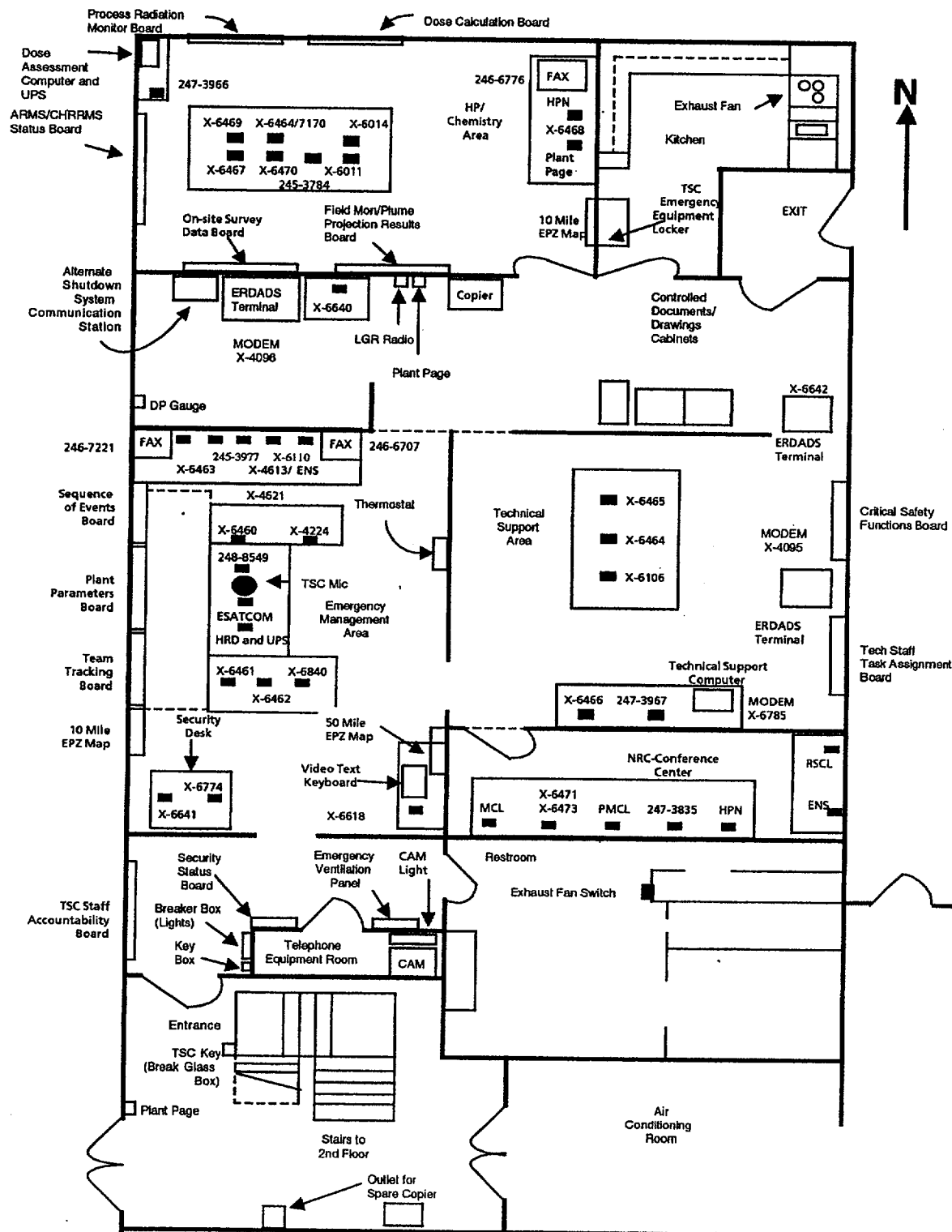
NOTE

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

<u>TSC POSITION</u>	<u>ATTACHMENT NO.</u>
TSC FIRST RESPONDER	8
TSC SUPERVISOR	9
TSC TECHNICAL ASSISTANT TO THE EMERGENCY COORDINATOR.....	10
TSC MAINTENANCE MANAGER.....	11
TSC OPERATIONS MANAGER	12
TSC HEALTH PHYSICS MANAGER.....	13
TSC CHEMISTRY SUPERVISOR.....	14
TSC DOSE ASSESSMENT TECHNICIAN	15
TSC SECURITY SUPERVISOR.....	16
TSC LICENSED OPERATOR	17
TSC PLANT DATA STATUS BOARD KEEPER	18
TSC PLANT DATA COMMUNICATOR	19
TSC ENS COMMUNICATOR.....	20
TSC STATE/COUNTY COMMUNICATOR.....	21
TSC SITE CORPORATE COMMUNICATOR.....	22
TSC EOF COMMUNICATOR.....	23
TSC LEAD ENGINEER.....	24
TSC TECHNICAL SUPPORT GROUP.....	25
TSC ERDADS OPERATOR	26
TSC DOCUMENT CONTROL PERSONNEL.....	27

END OF TEXT

FIGURE 1
(Page 1 of 1)
TECHNICAL SUPPORT CENTER LAYOUT



Procedure No.:	Procedure Title:	Page:
0-EPIP-20132	Technical Support Center (TSC) Activation and Operation	17
		Approval Date: 2/15/01

ENCLOSURE 1
(Page 1 of 2)

EMERGENCY RESPONSE DATA SYSTEM OPERATION

NOTE

Activation of the Emergency Response Data System (ERDS) is required as soon as possible within one hour of the declaration of an Alert or higher emergency classification level. ERDS can be started from any terminal.

1. ERDS Activation

NOTE

For ERDS activation, ensure ERDADS Opcon is monitoring the effected unit.

- a. Press <CLEAR> function key.
- b. Type the following command if the Opcon is not monitoring the effected unit: PUP Unit X <EXEC>; (where X is the effected unit.)
- c. Press <CLEAR> function key.
- d. Type NRC <DSPLY> on any ERDADS terminal.
- e. Page-up to observe status of NRC link.
- f. If NRC link is off-line, then continue. If NRC link in on-line, then ERDS activation is complete.
- g. Type NRC <DSPLY> on keyboard.
- h. Press <TAB+> function key to position cursor to the activation field.
- i. Press <ENTER> to start ERDS program.

Procedure No.:	Procedure Title:	Page:
0-EPIP-20132	Technical Support Center (TSC) Activation and Operation	18
		Approval Date: 2/15/01

ENCLOSURE 1
(Page 2 of 2)

EMERGENCY RESPONSE DATA SYSTEM OPERATION

2. ERDS Deactivation

NOTE

Normally the NRC Operations Center will determine when the ERDS link is terminated

- a. Press <CLEAR> function key.
- b. Insure Opcon is selected to effected unit.
- c. Type NRC
- d. Press <DSPLY> function key.
- e. Press <TAB+> function key to position cursor to the deactivation field.
- f. Type 0 in the deactivation field.
- g. Press <ENTER> to stop ERDS program.

Procedure No.:	Procedure Title:	Page:
0-EPIP-20132	Technical Support Center (TSC) Activation and Operation	19
		Approval Date: 2/15/01

ENCLOSURE 2
(Page 1 of 2)

**VERIFICATION AND OPERABILITY CHECK
FOR THE TV MONITORING SYSTEM**

NOTE

*The Emergency Video Signal is broadcast to the plant site on Channel 8. The signal source for this channel is a 1/2 inch VCR located in the Video Editing Suite, First Floor Nuclear Administration Building, Room 1420. The VCR serving Channel 8 is mounted in the vertical equipment rack. A label reading **Channel 8-VTR-3** identifies the subject VCR.*

1. Verify Emergency Video System signal by performing the following:

- a. Tune any hallway monitor to Channel 8.

NOTE

*The test pattern has **Studio 40** on the first line followed by the alphabet on succeeding lines.*

- b. If the test pattern appears on the monitor, proceed to the TSC and go to Step 2 of this enclosure.
 - c. If something other than the test pattern appears, or if no pattern appears, proceed to the video editing suite to check the VCR signal.
 - (1) Tune monitor labeled **RF System Monitor and Charger/edit** to Channel 8.
 - (2) Make sure Channel 8 VCR is on.

NOTE

Playing a tape in VTR-3 will void TSC signal.

- (3) Stop any tape that may be playing in the machine.
 - (4) Check cable in rear of VTR-3. Cables with two blue strips of tape should be plugged to inputs labeled **video in** and **audio in**.

Procedure No.:	Procedure Title:	Page:
0-EPIP-20132	Technical Support Center (TSC) Activation and Operation	20
		Approval Date: 2/15/01

ENCLOSURE 2

(Page 2 of 2)

VERIFICATION AND OPERABILITY CHECK FOR THE TV MONITORING SYSTEM

NOTE

Phone jack carrying TSC signal is labeled A-130. Phone line plugged into jack is marked with two blue strips of tape. Phone line travels to a converter box under edit console marked with two blue strips of tape. Video cable coming out of box is similarly identified.

- (5) If test pattern does not appear, check cable at phone line serving room. Make sure all connections are secure.
 - (6) If no picture appears on Channel 8, contact the Site Corporate Communications Representative.
2. After the Emergency Video System signal has been verified operable, or if directed by the TSC Supervisor, proceed to the Technical Support Center.
 - a. Ensure power is on to the video keyboard.
 - b. Turn power on to the view monitors
 - c. Position the TSC video camera to relay pertinent information to the OSC and EOF (e.g., plant parameters, EC briefings, etc.)
 - d. Verify broadcast signal (i.e., what the plant is seeing) by viewing Panasonic Monitor on desk.
 - e. To type and store video text, follow instructions on keyboard or refer to manual in desk drawer.
 - f. To send video text to plant, press **Program On** key.
 - g. To send video from camera to plant, disengage **Program On** key.
- (1) If camera signal does not appear on Panasonic monitor, press **Control + X**.

Procedure No.:	Procedure Title:	Page:
0-EPIP-20132	Technical Support Center (TSC) Activation and Operation	21
		Approval Date: 2/15/01

ENCLOSURE 3
(Page 1 of 1)

GUIDELINES FOR MAINTAINING TSC STATUS BOARDS

1. Responsibilities for maintaining each TSC Status Board are specified in Enclosure 4.
2. Obtain required information for the appropriate status board.
 - a. Utilize ERDADS if the information is available on ERDADS and the ERDADS display is available.
 - (1) Plant Data Status Board Keeper uses the Emergency Plan Data (EP3) display.
 - (2) Dose Assessment Status Board Keeper uses off-site Radiological Data (R3) display.
 - (3) TSC Health Physics Supervisor uses Off-site Radiological Data (R3) display.
 - (4) Other status board keepers use ERDADS displays, as necessary.
 - b. If ERDADS is not available:
 - (1) Verify the TSC Supervisor and TSC ERDADS Operator are aware that ERDADS is not available.
 - (2) Collect necessary information using attached status board worksheets, if applicable.
3. All status board keepers should ensure that status boards are updated in a timely manner.
 - a. All status boards, should generally be updated approximately every fifteen minutes.
 - b. More frequent updates may be necessary if conditions are changing rapidly.
 - c. Less frequent updates may be appropriate if conditions are changing slowly or are stable.
 - d. Status boards should always be updated at least every hour.

Procedure No.:	Procedure Title:	Page:
0-EPIP-20132	Technical Support Center (TSC) Activation and Operation	22
		Approval Date: 2/15/01

ENCLOSURE 4
(Page 1 of 1)

TSC STATUS BOARD MAINTENANCE RESPONSIBILITIES

The following status boards should be maintained by personnel filling the indicated position. Alternate assignments may be made, as necessary. Status Boards should be updated frequently (approximately every 15 minutes **OR** more frequently than every 15 minutes during significant transient events) and the information on the board should be correct and current.

<u>Status Board</u>	<u>Position</u>
TSC Staff Accountability	TSC Security Supervisor
Security Events	TSC Security Supervisor
10-Mile EPZ (in Management Area)	Technical Assistant to the EC
Team Tracking	TSC Maintenance Manager
Plant Equipment	TSC Plant Data Status Board Keeper
Sequence of Events	TSC Plant Data Communicator
Area Radiation Monitor	TSC Health Physics Supervisor
Process Radiation Monitor	TSC Dose Assessment Recorder
Dose Assessment	TSC Dose Assessment Recorder
Field Team Tracking	TSC Off-site Team Leader
Survey Results	TSC HP OSC Communicator
10-Mile EPZ Map (in HP/Chem Area)	TSC Chemistry Supervisor
Critical Safety Functions	TSC Lead Engineer
Task Assignments	TSC Lead Engineer
SAMG Board	TSC Lead Engineer

Procedure No.:	Procedure Title:	Page:
0-EPIP-20132	Technical Support Center (TSC) Activation and Operation	23
		Approval Date: 2/15/01

ENCLOSURE 5

(Page 1 of 1)

USE OF SPEED MEMOS

- A. Speed Memos should be used for the following functions:
 - 1. Team requests.
 - 2. Information/task requests.
 - 3. Relaying information.
- B. Speed memos should be handled in the following manner:
 - 1. The requester should give the speed memo to the lead supervisor in his/her area.
 - 2. The requester's lead supervisor should give the speed memo to the TSC Supervisor.
 - 3. The TSC Supervisor should present all team request speed memos to the EC for approval and establishment of priority before forwarding to the TSC Maintenance Manager.
 - 4. The TSC Supervisor should forward all other speed memos to the responsible manager or lead supervisor of the group who will perform the requested task.

Procedure No.:	Procedure Title:	Page:
0-EPIP-20132	Technical Support Center (TSC) Activation and Operation	24
		Approval Date: 2/15/01

ENCLOSURE 6
(Page 1 of 1)

CONTROL OF RE-ENTRY TEAMS

The Emergency Coordinator should control team requests in the TSC as follows:

1. Actions directed by Emergency or Off-Normal Operating Procedures (EOPs or ONOPs, respectively) which are required to mitigate the effects of an accident or event do not require formal team request approval, because these actions are previously reviewed and approved by the normal procedure approval process.
 - a. Teams assigned to perform tasks in accordance with EOPs or ONOPs should be documented and tracked for accountability.
2. Urgent situations such as personnel rescue, fire response or medical emergencies are exempt from this process, but should still be controlled as much as possible depending on the event.
3. Personnel receiving exposures anticipated being in excess of 10 CFR 20 limits should be volunteers familiar with the consequences of the radiological exposure.
4. Emergency exposures shall be limited to once in a lifetime for any individual.
5. Females of childbearing age shall not be permitted to receive exposures in excess of 10 CFR 20 limits.
6. Requests for actions to be performed by re-entry teams such as valve operations, repairs, damage assessments, chemistry samples, radiation monitoring, etc. should be documented in the TSC on the Team Tracking Board and in the logbooks.
7. 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 are familiar with plant layout and can provide appropriate radiological monitoring support.
8. Any team requests should be coordinated through the TSC Supervisor for presentation to the Emergency Management Staff.
9. The Emergency Coordinator, in consultation with the appropriate TSC Supervisors, should determine the feasibility and priority of team requests by evaluating the following:
 - a. Existing or potential hazards to re-entry members (electricity, toxic gases, obstructions, barriers, oxygen levels, etc.).
 - b. Time constraints to perform task.
 - c. The benefit of performing the task versus the risk associated.
 - d. Radiological data to determine plant areas actually or potentially affected by radiation or contamination.
10. The Emergency Coordinator or designee should authorize the TSC Maintenance Manager to request a re-entry team by verbal communication to the OSC Manager and forward the information by faxing a copy of the Team Tracking Board to the OSC.

Procedure No.: 0-EPIP-20132	Procedure Title: Technical Support Center (TSC) Activation and Operation	Page: 25 Approval Date: 2/15/01C
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ATTACHMENT 1
(Page 1 of 3)

FLORIDA NUCLEAR PLANT EMERGENCY NOTIFICATION FORM

1. A. ☐ THIS IS A DRILL B. ☐ THIS IS AN ACTUAL EVENT
 ONLINE NOTIFICATION: ☐ SWP ☐ MIAMI-DADE COUNTY ☐ MONROE COUNTY |
 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 _____

Procedure No.: 0-EPIP-20132	Procedure Title: Technical Support Center (TSC) Activation and Operation	Page: 26
		Approval Date: 2/15/01

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 _____

Procedure No.: 0-EPIP-20132	Procedure Title: Technical Support Center (TSC) Activation and Operation	Page: 27
		Approval Date: 2/15/01

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.

Procedure No.: 0-EPIP-20132	Procedure Title: Technical Support Center (TSC) Activation and Operation	Page: 28
		Approval Date: 2/15/01

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 – 301-818-5100 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	POWERMODE BEFORE	POWERMODE AFTER		
EVENT CLASSIFICATIONS		1-Hr. Non-Emergency 10 CFR 50.72(b)(1)		(v)(A) Safe S/D Capability	
GENERAL EMERGENCY	GEN/AAEC	TS Deviation	ADEV	(v)(B) RHR Capability	AINE
SITE AREA EMERGENCY	SIT/AAEC	4-Hr. Non-Emergency 10 CFR 50.72(b)(2)		(v)(C) Control of Rad Release	
ALERT	ALC/AAEC	(i) TS Required S/D	ASHU	(v)(D) Accident Mitigation	AIND
UNUSUAL EVENT	UNU/AAEC	(iv)(A) ECCS Discharge to RCS	ACCS	(xii) Offsite Medical	AMED
50.72 NON-EMERGENCY (see next columns)		(iv)(B) RPS Actuation (scram)	ARPS	(xiii) Loss Comm/Asmt/Resp	ACOM
PHYSICAL SECURITY (73.71)	DDDD	(xi) Offsite Notification	APRE	60-Day Optional 10 CFR 50.73(a)(1)	
MATERIAL EXPOSURE	B???	8-Hr. Non-Emergency 10 CFR 50.72(b)(3)		Invalid Specified System Actuation	
FITNESS FOR DUTY	HFIT	(ii)(A) Degraded Condition	ADEG	Other Unspecified Requirement (Identify)	
OTHER UNSPECIFIED REQMT. (see last column)		(ii)(B) Unanalyzed Condition	AUNA		
INFORMATION ONLY	NINF	(iv)(A) Specified System Actuation	AESF		

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	ANYTHING UNUSUAL OR NOT UNDERSTOOD?	☐ YES (Explain above)	☐ NO
NRC RESIDENT						
STATE(s)				DID ALL SYSTEMS FUNCTION AS REQUIRED?	☐ YES	☐ NO (Explain above)
LOCAL						
OTHER GOV AGENCIES				MODE OF OPERATION UNTIL CORRECTED:	ESTIMATED RESTART DATE:	ADDITIONAL INFO ON BACK
MEDIA/PRESS RELEASE						☐ YES ☐ NO

NRC FORM 361 (12-2000)

PRINTED ON RECYCLED PAPER

Procedure No.: 0-EPIP-20132	Procedure Title: Technical Support Center (TSC) Activation and Operation	Page: 29
		Approval Date: 2/15/01

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)

Procedure No.:	Procedure Title:	Page:
0-EPIP-20132	Technical Support Center (TSC) Activation and Operation	30
		Approval Date: 2/15/01

ATTACHMENT 3

(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 EVALUATION		
	S/O POSTED AT D840	N/A	
C	UNUSUAL EVENT		N/A
D	ALERT – PATROL DISPATCHED FOR OCA NOTIFICATION		N/A
	SCHOOL/TRAINING/WELLNESS COMPLEX NOTIFIED	N/A	
	BOAT RAMP SIGNS POSTED/PERSONNEL NOTIFIED	N/A	
	RED BARN/SCOUT CAMP NOTIFIED	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 NOTIFICATIONS COMPLETE	N/A	
E	SITE AREA EMERGENCY		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	

F-324 (1 of 3)

Procedure No.:	Procedure Title:	Page:
0-EPIP-20132	Technical Support Center (TSC) Activation and Operation	31
		Approval Date: 2/15/01

ATTACHMENT 3
(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	

F-324 (2 of 3)

Procedure No.:	Procedure Title:	Page:
0-EPIP-20132	Technical Support Center (TSC) Activation and Operation	32
		Approval Date: 2/15/01

ATTACHMENT 3
(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	

F-324 (3 of 3)

Procedure No.:

0-EPIP-20132

Procedure Title:

**Technical Support Center (TSC)
Activation and Operation**

Page:

35

Approval Date:

2/15/01

ATTACHMENT 6

(Page 1 of 2)

TSC STAFF ACCOUNTABILITY LOG

DATE: _____

<u>POSITION</u>	<u>NAME</u>	<u>BADGE NO.</u>
Emergency Coordinator	_____	_____
TSC Chemistry Supervisor	_____	_____
TSC Document Control Personnel	_____	_____
TSC Document Control Personnel	_____	_____
TSC Dose Assessment Recorder	_____	_____
TSC Dose Assessment Technician	_____	_____
TSC Electrical/I&C Engineer	_____	_____
TSC ENS Communicator	_____	_____
TSC EOF Communicator	_____	_____
TSC ERDADS Operator	_____	_____
TSC Health Physics Supervisor	_____	_____
TSC HPN Communicator	_____	_____
TSC HP/OSC Communicator	_____	_____
TSC Licensed Operator Support	_____	_____
TSC Mechanical Engineer	_____	_____
TSC Maintenance/Eng Liaison	_____	_____
TSC Maintenance Manager	_____	_____
TSC Off-site Team Leader	_____	_____
TSC Operations Manager	_____	_____

Procedure No.:	Procedure Title:	Page:
0-EPIP-20132	Technical Support Center (TSC) Activation and Operation	36
		Approval Date: 2/15/01

ATTACHMENT 6
(Page 2 of 2)

TSC STAFF ACCOUNTABILITY LOG

DATE: _____

<u>POSITION</u>	<u>NAME</u>	<u>BADGE NO.</u>
TSC Plant Data Communicator	_____	_____
TSC Plt Data Status Brd Keeper	_____	_____
TSC Reactor Engineer	_____	_____
TSC Security Supervisor	_____	_____
TSC Security Officer	_____	_____
TSC Security Officer	_____	_____
TSC Site Corporate Communicator	_____	_____
TSC Station Area Operations Supervisor	_____	_____
TSC State/County Communicator	_____	_____
TSC Supervisor	_____	_____
TSC Tech Assist to Emerg Coord	_____	_____
Miscellaneous Positions/Additions	_____	_____
_____	_____	_____
_____	_____	_____
_____	_____	_____
_____	_____	_____
_____	_____	_____
_____	_____	_____
_____	_____	_____
_____	_____	_____
_____	_____	_____
_____	_____	_____

Procedure No.: 0-EPIP-20132	Procedure Title: Technical Support Center (TSC) Activation and Operation	Page: 37
		Approval Date: 2/15/01

ATTACHMENT 7
(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

Procedure No.: 0-EPIP-20132	Procedure Title: Technical Support Center (TSC) Activation and Operation	Page: 38
		Approval Date: 2/15/01

ATTACHMENT 8
(Page 1 of 2)

**TSC FIRST RESPONDER
CHECK-OFF SHEET**

NOTE

The following attachment steps may be performed out of sequence.

- ☐ If not already unlocked by Security, unlock the TSC using the TSC key located in the break glass.
 - ☐ Energize breakers for TSC lighting as listed on the breaker panel located inside the TSC door.
 - ☐ Sign in on the TSC Staff Accountability Board and record badge numbers.
 - ☐ Secure (turn off) the exhaust fans located in the bathroom and kitchen (above stove) to establish pressure boundary.
- Initiate TSC Ventilation System by completing the following tasks:
- ☐ a. On the Emergency Ventilation Panel, set Air Removal Filter switch to EMERG.
 - ☐ b. On the Emergency Ventilation Panel, set Air Handler Unit switch to BYPASS.
 - ☐ c. On the Emergency Ventilation Panel, set Humidity Control switch to ON.
 - ☐ d. On the Air Conditioning thermostat, set Thermostat Fan switch to ON.
 - ☐ e. Verify the DP Gauge located in the ERDADS Operator cubicle on the west wall indicates a positive pressure when the TSC doors are closed.
- Start the TSC Continuous Air Monitor (CAM) located in the Telephone Equipment Room by completing the following tasks:
- ☐ a. Verify the CAM power cord is plugged into an electrical outlet.
 - ☐ b. Turn CAM Power Switch to ON located on the back of the CAM (if not already on).
 - ☐ c. Turn Sample Pump Power ON using switch located on the pump power cord.
 - ☐ d. Log start time and date on the CAM strip chart recorder located on the front of the CAM.

Procedure No.:

0-EPIP-20132

Procedure Title:

**Technical Support Center (TSC)
Activation and Operation**

Page:

39

Approval Date:

2/15/01

ATTACHMENT 8

(Page 2 of 2)

**TSC FIRST RESPONDER
CHECK-OFF SHEET**

☐

Unlock the TSC Document Control Cabinets

☐

Activate the Emergency Response Data System (ERDS). Refer to Enclosure 1 for activation instructions.

☐

a. Once the ERDS link has been established ensure the ENS communicator informs the NRC that the link is in place.

☐

Verify audibility of the Plant Page System throughout the TSC.

☐

Turn the copy machine on.

Completed by: _____ Date: _____

Procedure No.: 0-EPIP-20132	Procedure Title: Technical Support Center (TSC) Activation and Operation	Page: 40 Approval Date: 2/15/01
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ATTACHMENT 9

(Page 1 of 3)

TSC SUPERVISOR CHECK-OFF SHEET

NOTE

The following attachment steps may be performed out of sequence.

Facility Activation

- ☐ Ensure Step 5.1.2 for the first emergency responders has been completed.
- ☐ Sign in on the TSC Staff Accountability Board and record badge number.
- ☐ Ensure all emergency responders sign in on the TSC Staff Accountability Board.
- Ensure the following TSC positions have been filled to satisfy minimum staffing requirements prior to the Emergency Coordinator declaring the TSC Operational:
 - a. Emergency Coordinator (1)
 - ☐ b. TSC Health Physics Supervisor (1)
 - ☐ c. TSC Maintenance Manager (1) or TSC Mechanical Engineer (1)
 - ☐ d. TSC Technical Assistant to the Emergency Coordinator (1)
 - ☐ e. TSC Chemistry Supervisor (1)
 - ☐ f. TSC ENS Communicator (1)
 - ☐ g. TSC Dose Assessment Technician (1)
 - ☐ h. TSC Reactor Engineer (1)
 - ☐ i. TSC Electrical / I&C Engineer (1)
- ☐ Upon arrival of the TSC Licensed Operator, determine the need for off-site assistance.
- ☐ Ensure Determination of on-site manpower requirements.
- ☐ Verify adequate communication capabilities exist within the TSC.
- ☐ Ensure facility clocks are synchronized to time indicated on ERDADS.
- ☐ Take actions to fill position vacancies within the TSC.

ATTACHMENT 9

(Page 2 of 3)

**TSC SUPERVISOR
CHECK-OFF SHEET**

Facility Activation (Cont'd)

- ☐ Ensure speed memos, and other supplies are available for the TSC Staff.
- ☐ Inform the Emergency Coordinator that these activation steps have been completed.
- ☐ When the Emergency Coordinator's duties have been transferred to the TSC, have the Control Room make an announcement to inform plant personnel that the TSC has been activated.

Facility Operation

- ☐ Direct technical and operational assessment activities as required.
- ☐ Verify that the Plant Data and Sequence of Events Boards are maintained and updated in a timely manner.
- ☐ Inform the Emergency Coordinator of assessment activities, equipment, and problems.
- ☐ Periodically verify operability of the TSC ventilation system.
- ☐ Contact additional support personnel as needed.
- ☐ Verify operability of, and timeliness of, communication/ notification links.
- ☐ Periodically review team priorities on the Team Tracking Board.
- ☐ Update the TSC Operations Manager and Emergency Coordinator on team requests and priorities and relay requests and priority adjustments to the TSC Maintenance Manager for disposition.
- ☐ Review and route Speed Memos to the appropriate supervisor for resolution/answer.
- ☐ Resolve equipment and assessment capability problems.
- ☐ Approximately every 45 minutes, have the Emergency Coordinator provide a status update and include the disciplines listed on Attachment 5, or acquire status updates from the disciplines listed on Attachment 5 and provide the completed form to the EC for his update.
- ☐ Maintain a log of activities.

ATTACHMENT 9

(Page 3 of 3)

**TSC SUPERVISOR
CHECK-OFF SHEET**
Facility Closeout and Restoration

- ☐ Coordinate TSC deactivation with the Emergency Coordinator.
- ☐ Deactivate ERDS in accordance with Enclosure 1.
- ☐ Direct TSC deactivation with all TSC personnel.
- ☐ Verify TSC accountability and ensure TSC Security personnel have properly completed a form similar to Attachment 6.
- ☐ Collect all paperwork generated during the event and forward to the Emergency Preparedness Coordinator.
- Restore the TSC Ventilation System by completing the following tasks.
- ☐ a. On the Emergency Ventilation Panel, set Air Removal Filter switch to NORMAL.
- ☐ b. On the Emergency Ventilation Panel, set Air Handler Unit to NORMAL.
- ☐ c. On the Emergency Ventilation Panel, set Humidity Control switch to OFF.
- ☐ d. On the Air Conditioning Thermostat, set Thermostat Fan switch to AUTO.
- ☐ De-energize the TSC Continuous Air Monitor and Sample Pump.
- ☐ a. Log stop time and date on the CAM strip chart recorder located on the front of the CAM.
- ☐ b. Ensure the TSC Health Physics Supervisor retains the filter for radiological analysis.
- ☐ c. Unplug CAM power cord.
- ☐ d. Turn sample pump off using switch located on pump power cord.
- ☐ Ensure a final printout of the boards is made and all boards are erased.
- ☐ Ensure the TSC has been returned to its original condition.
- ☐ Release TSC personnel, as appropriate.

Completed by: _____ Date: _____

Procedure No.: 0-EPIP-20132	Procedure Title: Technical Support Center (TSC) Activation and Operation	Page: 43 Approval Date: 2/15/01
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ATTACHMENT 10
(Page 1 of 1)

**TECHNICAL ASSISTANT TO EMERGENCY COORDINATOR
CHECK-OFF SHEET**

NOTE

The following attachment steps may be performed out of sequence.

Facility Activation

- ☐ Conduct facility activation as detailed in Subsection 5.1 of this procedure.
- ☐ Determine present Emergency Action Level status.
- ☐ Ensure latest notifications to off-site agencies correctly portrayed present situation.
- ☐ Assist the TSC Operations Manager in utilizing the Emergency Operating Procedures.
- ☐ Inform the Emergency Coordinator that these activation steps have been completed.

Facility Operation

- ☐ Follow the sequence of events through the associated EPIPs.
- ☐ a. Ensure completion of applicable steps of 0-EPIP-20101, Duties of the Emergency Coordinator, as verification for the EC.
- ☐ Assist in the determination of Emergency Action Level status.
- ☐ Assist the Emergency Coordinator in developing Protection Action Recommendations (PARs) based on plant conditions from the TSC Operations Manager, and on Dose Projections from the TSC Chemistry Supervisor.
- ☐ Ensure that Protection Action Recommendations made by FPL and Protection Action Recommendations issued by government agencies are posted on the 10-Mile EPZ Map in the management area of the TSC.
- ☐ Assist the TSC Operations Manager in following Control Room actions through the Emergency Operating Procedures.
- ☐ Provide SRO expertise for accident assessment functions, as necessary.
- ☐ Assist the Emergency Coordinator with preparation for TSC briefings using Attachment 5 as necessary.
- ☐ Maintain a log of activities.

Completed by: _____ Date: _____

Procedure No.: 0-EPIP-20132	Procedure Title: Technical Support Center (TSC) Activation and Operation	Page: 44
		Approval Date: 2/15/01

ATTACHMENT 11
(Page 1 of 2)

**TSC MAINTENANCE MANAGER
CHECK-OFF SHEET**

NOTE

The following attachment steps may be performed out of sequence.

Facility Activation

- ☐ Conduct facility activation as detailed in Subsection 5.1 of this procedure.
- ☐ Establish communication link with the OSC Manager using the phone number listed in the ERD.
- ☐ Commence updating the TSC Team Tracking Board for teams previously or presently out in the plant (operators involved in mitigation activities, etc.) and ensure that this information is provided to the OSC Manager.
- ☐ Update the Emergency Coordinator on the status of OSC activation.
- ☐ Ensure the availability and readiness of company vehicles for Off-site ERT use, as necessary.
- ☐ Inform the Emergency Coordinator that these activation steps have been completed.

Facility Operation

- ☐ Inform the Emergency Coordinator when the OSC becomes operational.
- ☐ Inform the OSC Manager when TSC briefings are taking place.
- ☐ Communicate approved team requests to the OSC.
 - ☐ a. Record team activities in the logbook.
 - ☐ b. Periodically print out copies of the Team Tracking Board for review and retention.
 - ☐ c. Fax a printout of the TSC Team Tracking Board to the OSC as necessary.

Procedure No.: 0-EPIP-20132	Procedure Title: Technical Support Center (TSC) Activation and Operation	Page: 45
		Approval Date: 2/15/01

ATTACHMENT 11
(Page 2 of 2)

**TSC MAINTENANCE MANAGER
CHECK-OFF SHEET**

Coordinate assigning priorities to team activities with the following applicable positions and provide the OSC Manager with assigned priorities:

- ☐ a. Emergency Coordinator
- ☐ b. TSC Supervisor
- ☐ c. TSC Operations Manager
- ☐ d. TSC HP Supervisor
- ☐ e. TSC Chemistry Supervisor
- ☐ f. TSC Lead Engineer
- ☐ Provide TSC personnel with updates and results of team activities.
- ☐ Ensure that the Team Tracking Board is maintained and updated in a timely manner.
- ☐ a. Teams assigned multiple tasks should be updated as the tasks are completed in order to maintain accurate and current accountability of the teams.
- ☐ Provide the OSC with pertinent information concerning team activities (i.e., when unit goes to recirculation, release identified, etc.) as it becomes available.
- ☐ Communicate results of damage assessments to the Emergency Coordinator in a timely manner.
- ☐ Maintain a log of activities.

Completed by: _____ Date: _____

Procedure No.:	Procedure Title:	Page:
0-EPIP-20132	Technical Support Center (TSC) Activation and Operation	46
		Approval Date: 3/14/02

ATTACHMENT 12
(Page 1 of 2)

**TSC OPERATIONS MANAGER
CHECK-OFF SHEET**

NOTE

The following attachment steps may be performed out of sequence.

Facility Activation

- ☐ Conduct facility activation as detailed in Subsection 5.1 of this procedure.
- ☐ Establish a communication link with the Control Room, TSC Technical Support Group and OSC Operation Supervisor.
- ☐ a. Establish Control Room communications by calling the appropriate extension (refer to ERD).
- ☐ b. Place the Control Room on hold by depressing the conference button.
- ☐ c. Establish OSC Operations Communications by calling the appropriate extension (Ref to ERD)
- ☐ d. Place the OSC Operations Supervisor on hold by depressing the conference button.
- ☐ e. Establish TSC Technical Support Communications by dialing the Tech Support Extension (Refer to ERD).
- ☐ f. When TSC Tech Support Communications are established, establish conference call with the Control Room and the OSC Operations Supervisor by again pressing conference button.
- ☐ g. Conference call should be established with the Control Room, TSC Operations Manager, TSC Technical Support Group and the OSC Operations Supervisor.
- ☐ h. Handsfree communications may be established by pressing the Handsfree mute button and hanging up the handset.
- ☐ i. Ensure the TSC Tech Support Group's phone is in Listen Only mode (i.e., with microphone off).
- ☐ j. If the TSC Chemistry Supervisor is monitoring the Tech Support Extension, ensure Chemistry/HP phone is in Listen Only mode also.
- ☐ Determine the status of turnover of the plant operators from the Control Room.
- ☐ Notify the Control Room when the TSC/OSC are activated to ensure operators and other teams will commence receiving direction from the TSC/OSC.

Procedure No.:	Procedure Title:	Page:
0-EPIP-20132	Technical Support Center (TSC) Activation and Operation	47
		Approval Date: 3/14/02

ATTACHMENT 12
(Page 2 of 2)

**TSC OPERATIONS MANAGER
CHECK-OFF SHEET**

Facility Activation (Cont'd)

- ☐ Determine status of jobs being performed/completed by Operations personnel and relay information to the TSC Maintenance Manager and Control Room.
- ☐ Upon turnover of notification/communication duties from the Control Room to the TSC, request the designated Control Room Communicator to monitor the radio channel in use by the field operators, and provide status and updates to the Control Room staff.
- ☐ Inform the Emergency Coordinator that these activation steps have been completed.

Facility Operation

- ☐ Control Room requests for mitigating accidents should be given the highest priority to ensure successful and timely completion of EOP activities.
- ☐ a. Document requests for teams from the Control Room in the logbook and forward requests to the TSC Supervisor.
- ☐ Update the Control Room on the team activities in the OSC.
- ☐ Act as a liaison between the TSC, OSC, and the Control Room.
- ☐ a. Provide feedback to the Control Room on the status of team activities.
- ☐ b. Communicate results of damage assessments to the Emergency Coordinator in a timely manner.
- ☐ Follow Control Room actions through the Emergency Operating Procedures and provide the TSC Maintenance Manager with requests for teams from the EOP's.
- ☐ Assist in the determination of Emergency Action Level status.
- ☐ Provide plant condition information to the Emergency Coordinator for development of Protective Action Recommendations.
- ☐ **IF** the emergency involves a security response, **THEN** designate a Licensed Operator to serve as a liaison in SAS/CAS, as needed.
- ☐ Document any use of 50.54(x) in accordance with 0-ADM-207, Operations Instructions, in the Event of a Situation Not Addressed by Procedure, and ensure deviations are communicated to the Control Room.
- ☐ Maintain a log of activities.

Completed by: _____ Date: _____

Procedure No.: 0-EPIP-20132	Procedure Title: Technical Support Center (TSC) Activation and Operation	Page: 48 Approval Date: 2/15/01
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ATTACHMENT 13
(Page 1 of 2)

**TSC HEALTH PHYSICS SUPERVISOR
CHECK-OFF SHEET**

NOTE

The following attachment steps may be performed out of sequence.

Facility Activation

- ☐ Conduct facility activation as detailed in Subsection 5.1 of this procedure.
- ☐ Verify the operability of the continuous air monitor using 0-HPT-013.3, CALIBRATION AND OPERATION OF THE EBERLINE BETA AIR MONITORING SYSTEM MODEL AMS-3(A).
- ☐ Upon arrival of the TSC HP OSC Communicator, ensure communication is established with the OSC HP Communicator.
- ☐ Upon arrival of the HPN Communicator, ensure communication is established with the NRC, as required.
 - ☐ a. Record transmitted information in the HPN Communicator logbook.
- ☐ Determine the need for and the availability of the Off-site Emergency Response Teams.
- ☐ Ensure the TSC Off-site Team Leader establishes communications with the Off-site Emergency Response Teams, as needed.
- ☐ Acquire significant meteorological and radiological data for off-site radiological assessment from ERDADS (R3) or the Control Room.
- ☐ Commence updating the Area Radiation Monitor Status Board.
- ☐ Provide dosimetry to responders, as required.
- ☐ Establish a radiological control point for the TSC, as necessary.
- ☐ Verify operability of the TSC HP/Chemistry fax machine.
- ☐ Inform the Emergency Coordinator that these activation steps have been completed.

Procedure No.:	Procedure Title:	Page:
0-EPIP-20132	Technical Support Center (TSC) Activation and Operation	49
		Approval Date: 2/15/01

ATTACHMENT 13
(Page 2 of 2)

**TSC HEALTH PHYSICS SUPERVISOR
CHECK-OFF SHEET**

Facility Operation

- ☐ Periodically assess habitability and dose rates within the TSC.
- ☐ Ensure the OSC Manager dispatches an on-site re-entry team, as necessary, to perform surveys of the areas being inhabited during the emergency, i.e., Control Rooms, TSC, OSC, CAS, and SAS.
- ☐ Ensure TSC staff check personal dosimetry approximately once every thirty minutes.
- ☐ Ensure adequacy of HPN communications.
- ☐ Update the Off-site Emergency Response Teams at a minimum of once an hour or as conditions change or information becomes available.
- ☐ Ensure the TSC Offsite Team Leader is coordinating FPL off-site emergency response teams with Department of Health - Bureau of Radiation Control field teams through the EOF Field Monitoring Coordinator, as necessary.
- ☐ Ensure that the Area Radiation Monitor Board is maintained and updated in a timely manner.
- ☐ Update the OSC as conditions change or information becomes available by using the fax machine or telephone.
- ☐ Review team requests pertaining to Health Physics activities and forward to the TSC Supervisor.
- ☐ Upon notification of a release, or the need to evacuate the site, determine evacuation route as needed.
- ☐ a. Ensure the Assembly Area Supervisor is dispatched to the appropriate assembly area prior to the evacuation order.
- ☐ Update the Emergency Coordinator on a periodic basis (approximately every 30 minutes, or as significant changes occur).
- ☐ Maintain a log of activities.

Completed by: _____ Date: _____

Procedure No.: 0-EPIP-20132	Procedure Title: Technical Support Center (TSC) Activation and Operation	Page: 50 Approval Date: 2/15/01
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ATTACHMENT 14
(Page 1 of 2)

**TSC CHEMISTRY SUPERVISOR
CHECK-OFF SHEET**

NOTE

The following attachment steps may be performed out of sequence.

Facility Activation

- ☐ Conduct facility activation as detailed in Subsection 5.1 of this procedure.
 - ☐ Upon arrival of the TSC Dose Assessment Technician ensure Off-site Dose Calculations are initiated, in accordance with 0-EPIP-20126, OFF-SITE DOSE CALCULATIONS.
 - ☐ Acquire significant meteorological and radiological data for accident assessment purposes, using the most accurate and reliable source in accordance with 0-EPIP-20126, OFF-SITE DOSE CALCULATIONS.
 - ☐ Upon arrival of the TSC Dose Assessment Recorder, ensure updating of the Dose Assessment and Process Radiation Monitor Status Boards are initiated using ERDADS printout Off-site Dose Radiological Data (R3).
 - ☐ Determine status of previous dose assessment activities from the on-shift Chemistry Technician, if applicable.
 - ☐ Fax completed dose calculation information to the EOF for use during activation.
- If a Listen Only communication link between the Control Room and the TSC Operations Manager is desired, perform the following:
- ☐ a. Press the button for Extension 6464.
 - ☐ b. Press the Handsfree Mute button for Listen Only capability.
 - ☐ c. Adjust volume
 - ☐ Inform the Emergency Coordinator that these activation steps have been completed.

ATTACHMENT 14

(Page 2 of 2)

TSC CHEMISTRY SUPERVISOR
CHECK-OFF SHEETFacility Operation

- ☐ Ensure off-site dose calculations are performed in accordance with 0-EPIP-20126, OFF-SITE DOSE CALCULATIONS, as conditions change and in conjunction with the EOF.
- ☐ Acquire and analyze the results of Chemistry sampling data.
- ☐ Ensure that the Process Radiation Monitor and Dose Assessment Status Boards are maintained and updated in a timely manner.
- ☐ Review team requests pertaining to Chemistry activities and forward to the TSC Supervisor.
- ☐ Provide the Emergency Coordinator with briefings approximately every 30 minutes on dose assessment activities and results, or as significant changes occur.
- ☐ Provide applicable data to the Emergency Coordinator for the determination of protective action recommendations based on off-site dose projections approximately every 30 minutes or as necessary.
- ☐ Update the 10-Mile EPZ Map in the HP/Chemistry area with the Protective Action Recommendations issued to the public.
- ☐ Provide offsite dose calculation information to the TSC Technical Support Group during implementation of SAMG.
- ☐ Maintain a log of activities.

Completed by: _____ Date: _____

ATTACHMENT 15

(Page 1 of 1)

TSC DOSE ASSESSMENT TECHNICIAN
CHECK-OFF SHEET**NOTE***The following attachment steps may be performed out of sequence.***Facility Activation**

- ☐ Conduct facility activation as detailed in Subsection 5.1 of this procedure.
- ☐ Initiate Off-site Dose Calculations in accordance with 0-EPIP-20126, OFF-SITE DOSE CALCULATIONS.

Facility Operation

- ☐ Perform off-site dose calculations in accordance with 0-EPIP-20126, OFF-SITE DOSE CALCULATIONS.
- ☐ Ensure all previous dose calculation paperwork is faxed to the EOF to expedite EOF activation.
- ☐ Provide applicable data to the TSC Chemistry Supervisor for the determination of Protection Action Recommendations.
- ☐ Coordinate dose assessment with the EOF.

Completed by: _____ Date: _____

Procedure No.: 0-EPIP-20132	Procedure Title: Technical Support Center (TSC) Activation and Operation	Page: 53
		Approval Date: 2/15/01

ATTACHMENT 16
(Page 1 of 2)

**TSC SECURITY SUPERVISOR
CHECK-OFF SHEET**

NOTE

The following attachment steps may be performed out of sequence.

Facility Activation

- ☐ Conduct facility activation as detailed in Subsection 5.1 of this procedure.
- ☐ Determine present status of Security Force activities by completing the appropriate sections of a form similar to Attachment 3.
- ☐ Commence updating the Security Status Board with security activities.
- ☐ Upon arrival of the TSC Security Officer, ensure access to and egress from the TSC is controlled, and assistance is given in the maintenance of TSC accountability.
- ☐ Ensure the Security Officer is present in the OSC and performing the following duties:
 - ☐ a. Referencing 0-EPIP-20133, Operations Support Center (OSC) Activation and Operation for outlined responsibilities.
 - ☐ b. Controlling the protected area and vital area keys.
 - ☐ c. Controlling access to and egress from the OSC.
 - ☐ d. Initiating the OSC Staff Accountability Log.
- ☐ Ensure accountability within the facility has been established and is maintained, and that a form similar to Attachment 6 has been initiated.
- ☐ For Security related, operational issues, coordinate with the TSC Operations Manager for the dispatch of a licensed operator to respond to the Security Command Post as Security Command Post Operations.
- ☐ Inform the Emergency Coordinator that these activation steps have been completed.

Procedure No.: 0-EPIP-20132	Procedure Title: Technical Support Center (TSC) Activation and Operation	Page: 54
		Approval Date: 2/15/01

ATTACHMENT 16
(Page 2 of 2)

**TSC SECURITY SUPERVISOR
CHECK-OFF SHEET**

Facility Operation

- ☐ Implement, and ensure the Security Force has implemented SFI-6307, Emergency Evacuation and Accountability, as necessary.
- ☐ Ensure the TSC Staff Accountability Board is maintained and a form similar to Attachment 6 is completed.
- ☐ a. Upon completion of the TSC Staff Accountability Log (form similar to Attachment 6), complete a Security Accountability Sheet (form similar to Attachment 7) and fax or deliver to the Secondary Alarm Station.
- ☐ Ensure the Security Events Status Board is updated in a timely manner.
- ☐ Provide an initial accountability report to the Emergency Coordinator within 30 minutes of a Site Evacuation Announcement in accordance with SFI-6307, EMERGENCY EVACUATION AND ACCOUNTABILITY.
- ☐ Coordinate security activities with other departments as applicable.
- ☐ Provide the Emergency Coordinator with briefings on the status of security activities (i.e., Site Evacuation, accountability results, etc.).
- ☐ Provide assistance to local law enforcement agencies, as directed by the EOF Security Manager.
- ☐ Recommend to the Emergency Coordinator, when appropriate, the suspension of some or all safeguards. Ensure use of 50.54(x) is coordinated with the TSC Operations Manager.
- ☐ Coordinate off-site security assistance through the EOF Emergency Security Manager.
- ☐ Maintain a log of activities.

Completed by: _____ Date: _____

Procedure No.: 0-EPIP-20132	Procedure Title: Technical Support Center (TSC) Activation and Operation	Page: 55 Approval Date: 2/15/01
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ATTACHMENT 17
(Page 1 of 1)

**TSC LICENSED OPERATOR
CHECK-OFF SHEET**

NOTE

The following attachment steps may be performed out of sequence.

Facility Activation

- ☐ Conduct facility activation as detailed in Subsection 5.1 of this procedure.

Facility Operation

- ☐ Provide operational information and guidance to the TSC Technical Support personnel, and other personnel, as necessary, to effectively coordinate Technical Support activities with Operations and other emergency response personnel.

- ☐ Monitor the status of the unaffected unit and report any operational concerns to the TSC Lead Engineer and the TSC Operations Manager.

If the emergency event involves a fire, conduct the following activities:

- ☐ a. Monitor the fire brigade response and provide input to the Emergency Coordinator.
- ☐ b. Ensure that, as needed, off-site support is responding and provide information to the TSC Supervisor.
- ☐ c. Assist the fire brigade leader in acquiring additional equipment, as needed.
- ☐ d. Review the pre-fire plan of the effected areas and provide input to the Emergency Coordinator

Completed by: _____ Date: _____

Procedure No.:

0-EPIP-20132

Procedure Title:

**Technical Support Center (TSC)
Activation and Operation**

Page:

56

Approval Date:

2/15/01

ATTACHMENT 18

(Page 1 of 1)

**TSC PLANT DATA STATUS BOARD KEEPER
CHECK-OFF SHEET**

NOTE

The following attachment steps may be performed out of sequence.

Facility Activation

☐

Conduct facility activation as detailed in Subsection 5.1 of this procedure.

☐

Begin updating the Plant Data Status Board using the guidelines found in Enclosure 3.

Facility Operation

☐

Maintain the Plant Data Status Board up-to-date using the guidelines found in Enclosure 3.

☐

Ensure appropriate emergency classification sign is posted.

Completed by: _____ Date: _____

Procedure No.:	Procedure Title:	Page:
0-EPIP-20132	Technical Support Center (TSC) Activation and Operation	57
		Approval Date: 2/15/01

ATTACHMENT 19
(Page 1 of 1)

**TSC PLANT DATA COMMUNICATOR
CHECK-OFF SHEET**

NOTE

The following attachment steps may be performed out of sequence.

Facility Activation

- ☐ Conduct facility activation as detailed in Subsection 5.1 of this procedure.
- ☐ Establish an open line of communication with the control room.
- ☐ Obtain copies of the Emergency Coordinator Logbook and other applicable information (e.g., Equipment Out of Service Log, events occurring prior to facility activation, etc.) from the control room via fax, LAN, or other means.
- ☐ Provide the Equipment Out of Service information and other pertinent information to the TSC Maintenance Manager for transmittal to the OSC Manager.
- ☐ Update the Sequence of Events Board, including all events and activities that have occurred up to this point, using the guidelines found in Enclosure 3.

Facility Operation

- ☐ Maintain an open line of communication with the control room.
- ☐ Continue updating the Sequence of Events Board, using the guidelines found in Enclosure 3.
- ☐ Provide clarification of data and/or obtain additional data as requested by the TSC.

Completed by: _____ Date: _____

Procedure No.:	Procedure Title:	Page:
0-EPIP-20132	Technical Support Center (TSC) Activation and Operation	58
		Approval Date: 2/15/01

ATTACHMENT 20
(Page 1 of 2)

**TSC ENS COMMUNICATOR
CHECK-OFF SHEET**

NOTES

- *The following attachment steps may be performed out of sequence.*
- *Emergency notification to the NRCOC of a declared event is required within one hour, but after state/county notifications.*
- *Notifications should be made every hour unless updates are agreed to be less frequent, upon termination, or as conditions change (PARs, changes to classifications, significant changes to plant conditions, etc.).*
- *Alternate commercial telephone numbers for the State of Florida and NRC notifications are listed in the Emergency Response Directory (ERD).*
- *Collection of Release Rate data shall not delay State of Florida and NRC notifications. If the data is not available, notification shall be made and followed up as soon as the information is available.*
- *Data for completion of notification forms is obtained from ERDADS printouts and Health Physics/Chemistry Personnel.*
- *If a transitory event has occurred, notifications are still required using this procedure.*

Facility Activation

- ☐ Conduct facility activation as detailed in Subsection 5.1 of the procedure
- ☐ Acquire copies of the NRC Event Notification Worksheet (form similar to Attachment 2) from the Document Control Files.
- ☐ Verify the operability of the TSC Operations fax machine.
- ☐ Receive turnover from the Control Room Shift Communicator.
- ☐ a. Time of last update
- ☐ b. Time requirement for next update
- ☐ c. Fax copies of previous NRC Event Notification Worksheets.

Procedure No.:	Procedure Title:	Page:
0-EPIP-20132	Technical Support Center (TSC) Activation and Operation	59
		Approval Date: 2/15/01

ATTACHMENT 20
(Page 2 of 2)

**TSC ENS COMMUNICATOR
CHECK-OFF SHEET**

Facility Operation

- ☐ Maintain an open line of communication and a transmission log, as necessary.
- ☐ Ensure notifications are initiated within one hour (immediately following State and County notification) of a classification /PAR change or other significant event.
- ☐ Request the TSC Technical Assistant to Emergency Coordinator to log notification times.
- ☐ Log all questions asked by the NRC.
- ☐ Obtain answers to questions from appropriate TSC staff member.
- ☐ Obtain EC approval prior to providing additional information to the NRC.

Completed by: _____ Date: _____

ATTACHMENT 21

(Page 1 of 1)

**TSC STATE/COUNTY COMMUNICATOR
CHECK-OFF SHEET**
NOTE

- *The following attachment steps may be performed out of sequence.*
- *Emergency notification to the State Warning Point of a declared event is required within 15 minutes.*
- *Follow-up notifications should be made every hour unless updates are agreed to be less frequent, upon termination, or as conditions change (PARs, changes to classifications, significant changes to plant conditions, etc.)*
- *Alternate commercial telephone numbers for the State Warning Point are listed in the Emergency Response Directory (ERD).*

Facility Activation

- ☐ Conduct facility activation as detailed in Subsection 5.1 of this procedure.
- ☐ Acquire copies of the Florida Nuclear Plant Emergency Notification Form (form similar to Attachment 1) from the Document Control Files.
- ☐ Receive turnover from the Control Room Shift Communicator.
- ☐ a. Time of last update
- ☐ b. Time requirement for next update
- ☐ c. Fax copies of previous Florida Nuclear Plant Emergency Notification Forms

Facility Operation

- ☐ When notifications to the State Warning Point are required, complete a form similar to Attachment 1, as required.
- ☐ a. Verify data on form is accurate with appropriate TSC personnel.
- ☐ b. Obtain Emergency Coordinator approval by having him/her review and initial the form similar to Attachment 1.
- ☐ Establish communications with the State Warning Point, as required.
- ☐ a. Contact the State Warning Point using the telephone numbers on the telephone (also listed in the Immediate Notification Section of the ERD).

Completed by: _____ Date: _____

Procedure No.: 0-EPIP-20132	Procedure Title: Technical Support Center (TSC) Activation and Operation	Page: 61
		Approval Date: 2/15/01

ATTACHMENT 22
(Page 1 of 1)

**TSC SITE CORPORATE COMMUNICATOR
CHECK-OFF SHEET**

NOTE

The following attachment steps may be performed out of sequence.

Facility Activation

- ☐ Conduct facility activation as detailed in Subsection 5.1 of this procedure.
- ☐ Establish the TV monitoring system and verify audio and visual operability, using Enclosure 2.
- ☐ Through the TSC Maintenance Manager, inform the OSC Supervisor to set the OSC TV monitors to the appropriate channel for message reception (Channel 8).
- ☐ Through the EOF Administrative Supervisor, verify reception of the transmission at the EOF.

Facility Operation

- ☐ Focus the camera on the TSC sequence of events board.
- ☐ Periodically pan over to the OSC Team Tracking Board.
- ☐ Focus the camera on the Emergency Coordinator during TSC briefings.

Completed by: _____ Date: _____

Procedure No.:	Procedure Title:	Page:
0-EPIP-20132	Technical Support Center (TSC) Activation and Operation	62
		Approval Date: 2/15/01

ATTACHMENT 23
(Page 1 of 1)

**TSC EOF COMMUNICATOR
CHECK-OFF SHEET**

NOTE

The following attachment steps may be performed out of sequence.

Facility Activation

- ☐ Conduct facility activation as detailed in Subsection 5.1 of the procedure.
- ☐ Establish communication with the EOF TSC Communicator when the EOF is activated.
- ☐ Fax copies of the Emergency Coordinator Logbook, completed State and NRC Notification Forms and other applicable information to the EOF for their use upon EOF activation. Acquire State Warning Point and NRCOC notification forms and fax to the EOF.
- ☐ Ensure the EOF has received documentation necessary for facility activation.

Completed by: _____ Date: _____

Procedure No.:	Procedure Title:	Page:
0-EPIP-20132	Technical Support Center (TSC) Activation and Operation	63
		Approval Date: 2/15/01

ATTACHMENT 24
(Page 1 of 3)

**TSC LEAD ENGINEER
CHECK-OFF SHEET**

NOTE

The following attachment steps may be performed out of sequence.

Facility Activation

- ☐ Conduct facility activation as detailed in Subsection 5.1 of this procedure.
- ☐ Establish a listen only communications link with the Control Room via conference call with the TSC Operations Manager.
- ☐ a. The TSC Operations Manager should initiate the three-way conference call.
- ☐ b. After the conference call has been established:
 - ☐ (1) Press the Handsfree Mute button to initiate speakerphone.
 - ☐ (2) Press the Handsfree Mute button for Listen Only capability.
 - ☐ (3) Hang up the handset.
 - ☐ (4) Adjust volume.
- ☐ Assign a member of the Technical Support Group to establish communications with the EOF Engineering Staff when the EOF is activated.
- ☐ Upon arrival of the TSC Station Area Operations Supervisor, ensure that the System Control Center computer link is established and Off-site Electrical Transmission System Status is monitored and reported, as required.
- ☐ Upon arrival of the TSC Reactor Engineer, ensure the Core Damage Assessment computer is operational.
- ☐ Ensure the TSC Maintenance/Engineering Liaison establishes communications with the OSC Re-entry Coordinator.
- ☐ Designate a member of the TSC Technical Support Group to monitor CETs.
- ☐ a. If CETs are greater than 1200° F and actions to cool the core are not successful, consult with the TSC Operations Manager and the EC on the need to implement SAMG's.
- ☐ b. Upon implementation of SAMG's, assign an individual to update the SAMG status board.

Procedure No.:	Procedure Title:	Page:
0-EPIP-20132	Technical Support Center (TSC) Activation and Operation	64
		Approval Date: 2/15/01

ATTACHMENT 24
(Page 2 of 3)

**TSC LEAD ENGINEER
CHECK-OFF SHEET**

Facility Activation (Cont'd)

- ☐ Assign an individual to commence updating the Technical Staff Task Assignment Board.
- ☐ a. Occasionally update the EOF Engineering Staff via phone or Fax of Task Board Printout.
- ☐ Ensure Speed Memos are available to the Technical Staff.
- ☐ Inform the Emergency Coordinator that these activation steps have been completed.

Facility Operation

If there is an indication of actual or potential fuel damage:

- ☐ a. Ensure 0-EPIP-1302, PTN Core Damage Assessment, is being implemented by the TSC Reactor Engineer.
- ☐ b. Consider providing quick estimates by use of the graphs.
- ☐ c. Ensure that core damage assessment results are communicated to:
 - ☐ (1) Emergency Coordinator
 - ☐ (2) TSC Supervisor
 - ☐ (3) TSC Operations Manager
 - ☐ (4) TSC Chemistry Supervisor
- ☐ If off-normal high airborne particulates are present in the outside air due to grass fires, dust, etc., perform shift surveillance of the TSC Emergency Ventilation System Filters by reading the associated instrumentation in the TSC Air Conditioning Room, and record required data on Attachment 4.
- ☐ a. If any limits in Attachment 4 are exceeded, notify the TSC Supervisor and develop a corrective action plan.
- ☐ Ensure adequacy of Engineering and Technical Support communications.
- ☐ Ensure that the Technical Staff Task Assignment Board is kept current. (Tasks assigned to personnel in the Technical Support Group.)
- ☐ Review team requests originating from the Technical Staff and forward to the TSC Supervisor.

Procedure No.: 0-EPIP-20132	Procedure Title: Technical Support Center (TSC) Activation and Operation	Page: 65 Approval Date: 3/14/02
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ATTACHMENT 24
(Page 3 of 3)

**TSC LEAD ENGINEER
CHECK-OFF SHEET**

Facility Operation (Cont'd)

- ☐ Review team requests returning to the Technical Staff and disseminate information requested.
- ☐ Ensure Off-site Electrical Distribution System status is monitored and reported, as required.
- ☐ When determining release paths, ensure accuracy of determination prior to terminating the release path search.
- ☐ Document any use of 50.54(x) in accordance with 0-ADM-207, OPERATIONS INSTRUCTIONS IN THE EVENT OF A SITUATION NOT ADDRESSED BY PROCEDURE, and ensure deviations are communicated to the Control Room through the TSC Operations Manager.
- ☐ Monitor Technical Staff operation and continued interaction.
- ☐ Communicate results of damage assessments to the Emergency Coordinator in a timely manner.
- ☐ Provide Technical Support Group expertise to the OSC through the TSC Maintenance Coordinator.
- ☐ Maintain a log of activities.

Completed by: _____ Date: _____

Procedure No.: 0-EPIP-20132	Procedure Title: Technical Support Center (TSC) Activation and Operation	Page: 66
		Approval Date: 2/15/01

ATTACHMENT 25
(Page 1 of 1)

**TSC TECH SUPPORT GROUP
CHECK-OFF SHEET**

NOTES

- *The following attachment steps may be performed out of sequence.*
- *The Technical Support Group consists of the TSC Lead Engineer, Mechanical Engineer, Electrical/I&C Engineer, Reactor Engineer, Engineering/Maintenance Liaison, Station Area Operations Supervisor, Licensed Operator Support.*

Facility Activation

☐ Conduct facility activation as detailed in Subsection 5.1 of this procedure.

Facility Operation

- ☐ Participate as a member of the Technical Support Group by providing technical support in your area of expertise.
- ☐ Evaluate system and equipment failures.
- ☐ Propose mitigative and corrective actions as promptly as possible.
- ☐ Provide recommendations to the Emergency Coordinator.
- ☐ Provide a communications path between the TSC Technical Support Group and the OSC Re-entry Coordinator.

Completed by: _____ Date: _____

ATTACHMENT 26
(Page 1 of 1)TSC ERDADS OPERATOR
CHECK-OFF SHEETNOTE*The following attachment steps may be performed out of sequence.*Facility Activation☐ Conduct facility activation as detailed in Subsection 5.1 of this procedure.

Verify the operability of ERDADS as follows:

☐ a. Check that the following displays are available:☐ (1) Off-site Dose Radiological Data (R3/4)☐ (2) Emergency Plan Data (ED3/4)☐ (3) Environmental Trends (MC3/4 ENV)☐ (4) Meteorological Parameter Verification (EP3/4 ENV)☐ (5) PTN Status Units 3 & 4 (U3/4)☐ b. Check the operability of the color plotter.☐ c. Check the operability of the line printer.Facility Operation☐ Provide ERDADS printouts to TSC personnel, as requested.☐ Provide ERDADS Emergency Plan Data (ED3) printouts to TSC Document Control personnel for distribution in a timely manner.

Completed by: _____ Date: _____

Procedure No.: 0-EPIP-20132	Procedure Title: Technical Support Center (TSC) Activation and Operation	Page: 68
		Approval Date: 2/15/01

ATTACHMENT 27
(Page 1 of 1)

**TSC DOCUMENT CONTROL PERSONNEL
CHECK-OFF SHEET**

NOTE

The following attachment steps may be performed out of sequence.

Facility Activation

- ☐ Conduct facility activation as detailed in Subsection 5.1 of this procedure.

Facility Operation

- ☐ Provide assistance to TSC personnel in obtaining controlled procedures, drawings, and documents.

- ☐ Provide assistance to TSC personnel in making copies, routing Speed Memos, forms and information, etc., as required.

Distribute ERDADS printouts of plant parameters and data obtained from the TSC ERDADS Operator in a timely manner to the following:

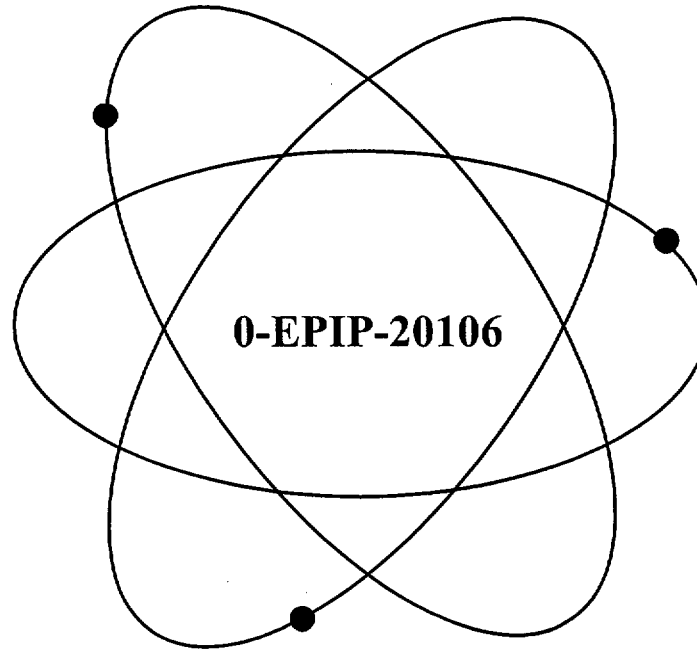
- ☐ a. Emergency Coordinator
- ☐ b. TSC Plant Data Status Board Keeper
- ☐ c. TSC Technical Support Group
- ☐ d. OSC (via fax)

Completed by: _____ Date: _____

FINAL PAGE

Florida Power & Light Company

Turkey Point Nuclear Plant



Title:

Natural Emergencies

Safety Related Procedure

Responsible Department:

Emergency Preparedness

Revision Approval Date:

3/14/02

RTSs 95-0996P, 96-0997, 97-1406, 98-0470, 98-1114, 98-1238,
99-0958, 00-0440, 01-0236, 01-0548, 01-0756, 02-0089P
PC/M 01-022

LIST OF EFFECTIVE PAGES

<u>Page</u>	<u>Revision Date</u>	<u>Page</u>	<u>Revision Date</u>	<u>Page</u>	<u>Revision Date</u>	<u>Page</u>	<u>Revision Date</u>
1	03/14/02	25	05/30/01	49	05/30/01	73	05/30/01
2	03/14/02	26	05/30/01	50	05/30/01	74	05/30/01
3	05/30/01	27	05/30/01	51	05/30/01	75	05/30/01
4	05/30/01	28	05/30/01	52	05/30/01	76	05/30/01
5	05/30/01	29	05/30/01	53	09/28/01	77	05/30/01
6	05/30/01	30	05/30/01	54	09/28/01	78	05/30/01
7	05/30/01	31	05/30/01	55	05/30/01	79	05/30/01
8	05/30/01	32	05/30/01	56	05/30/01	80	05/30/01
9	05/30/01	33	05/30/01	57	05/30/01	81	05/30/01
10	09/28/01	34	05/30/01	58	05/30/01	82	05/30/01
11	05/30/01	35	05/30/01	59	05/30/01	83	05/30/01
12	05/30/01	36	05/30/01	60	05/30/01	84	05/30/01
13	05/30/01	37	05/30/01	61	05/30/01	85	05/30/01
14	05/30/01	38	05/30/01	62	05/30/01	86	05/30/01
15	05/30/01	39	03/14/02	63	05/30/01	87	05/30/01
16	05/30/01	40	03/14/02	64	05/30/01	88	05/30/01
17	05/30/01	41	05/30/01	65	05/30/01	89	05/30/01
18	05/30/01	42	05/30/01	66	05/30/01	90	05/30/01
19	05/30/01	43	05/30/01	67	05/30/01	91	05/30/01
20	05/30/01	44	11/04/01	68	05/30/01	92	05/30/01
21	05/30/01	45	05/30/01	69	05/30/01	93	05/30/01
22	05/30/01	46	05/30/01	70	05/30/01	94	05/30/01
23	05/30/01	47	05/30/01	71	05/30/01		
24	05/30/01	48	05/30/01	72	05/30/01		

Procedure No.:	Procedure Title:	Page:
0-EPIP-20106	Natural Emergencies	3
		Approval Date:
		5/30/01

TABLE OF CONTENTS

<u>Section</u>	<u>Page</u>
1.0 <u>PURPOSE</u>	5
2.0 <u>REFERENCES/RECORDS REQUIRED/</u> <u>COMMITMENT DOCUMENTS</u>	5
3.0 <u>RESPONSIBILITIES</u>	10
4.0 <u>DEFINITIONS</u>	11
5.0 <u>PROCEDURE</u>	13
5.1 Weather Reports for Emergency Classification Determination.....	14
5.2 Tornado	14
5.3 Hurricane Warning	15
5.3.1 Emergency Coordinator Responsibilities.....	15
5.3.2 Emergency Preparedness Coordinator Responsibilities.....	19
5.3.3 OSC Manager Responsibilities	24
5.3.4 OSC Mechanical Coordinator Responsibilities.....	31
5.3.5 OSC I&C Coordinator Responsibilities	41
5.3.6 OSC Electrical Coordinator Responsibilities.....	42
5.3.7 TSC Operations Manager Responsibilities	44
5.3.8 TSC Chemistry Supervisor Responsibilities	49
5.3.9 TSC Health Physics Supervisor responsibilities	49
5.3.10 TSC Security Supervisor Responsibilities	51
5.3.11 Fire Protection Supervisor Responsibilities	52
5.3.12 Site Facilities Responsibilities	52
5.4 Earthquake.....	55

Procedure No.:	Procedure Title:	Page:
0-EPIP-20106	Natural Emergencies	4
		Approval Date:
		5/30/01

TABLE OF CONTENTS (Cont'd)

<u>Section</u>	<u>Page</u>
<u>FIGURE/ENCLOSURES/ATTACHMENTS</u>	
<u>Figure 1</u>	
Details for Flood Protection Dike	57
<u>Enclosure 1</u>	
480 Volt Receptacle List	58
<u>Enclosure 2</u>	
Drain Plugs Locations and Installation	60
<u>Enclosure 3</u>	
Operations Guidelines for Category 5 Hurricane with Significant Flooding.....	68
<u>Enclosure 4</u>	
Loss of Communications - Remote Station Guidelines	83
<u>Attachment 1</u>	
Recommended Minimum Hurricane Staffing Levels	92
<u>Attachment 2</u>	
Security Ballistic Shield Locations	94

Procedure No.:	Procedure Title:	Page:
0-EPIP-20106	Natural Emergencies	5
		Approval Date:
		5/30/01

1.0 PURPOSE

- 1.1 This procedure provides instructions and guidelines for preparing, controlling, and recovering the plant following activation of the Emergency Plan for a natural emergency.
- 1.2 This procedure addresses tornadoes, hurricanes and earthquakes, but is to be used for any severe natural disturbance which results in Emergency Plan activation. Specific guidance is provided for coping with possible flood conditions associated with more intense hurricanes.
- 1.3 Procedural guidance for weather disturbances not meeting the criteria for activating the Emergency Plan are found in 0-ONOP-103.3, Severe Weather Preparation.
- 1.4 This procedure shall be used when the natural emergency meets the criteria in Table 1 of 0-EPIP-20101, Duties of Emergency Coordinator. Natural emergencies that do not meet the criteria of 0-EPIP-20101 shall be handled in accordance with 0-ONOP-103.3, Severe Weather Preparations.

2.0 REFERENCES/RECORDS REQUIRED/COMMITMENT DOCUMENTS

2.1 References

2.1.1 Technical Specifications

1. Technical Specification 3.4.1.3, Reactor Coolant System - Hot Shutdown

2.1.2 Final Safety Analysis Report

1. FSAR, Section 2, Site and Environment, and Figures 1.2-3 and 1.2-4

2.1.3 Plant Drawings

1. 5610-C-1695, Network of Barriers for Main Plant External Flood Protection
2. 5610-C-1015, Sire Security System, OSRE Installation

Procedure No.:	Procedure Title:	Page:
0-EPIP-20106	Natural Emergencies	6
		Approval Date:
		5/30/01

2.1.4 Plant Procedures

1. 0-ADM-016.1, Transient Combustible and Flammable Substances Program
2. 0-ADM-215, Plant Surveillance Tracking Program
3. 3-ARP-097.DG, Diesel Generator Panel Annunciator Response
4. 4-ARP-097.DG, Diesel Generator Panel Annunciator Response
5. 0-ONOP-003.10, 125 VDC System - Location of Grounds
6. 0-ONOP-003.11, Auxiliary 125 VDC System - Location of Grounds
7. 3-ONOP-004, Loss of Offsite Power
8. 4-ONOP-004, Loss of Offsite Power
9. 3-ONOP-004.1, System Restoration Following Loss of Offsite Power
10. 4-ONOP-004.1, System Restoration Following Loss of Offsite Power
11. 3-ONOP-004.2, Loss of 3A 4KV Bus
12. 4-ONOP-004.2, Loss of 4A 4KV Bus
13. 3-ONOP-004.3, Loss of 3B 4KV Bus
14. 4-ONOP-004.3, Loss of 4B 4KV Bus
15. 0-ONOP-013, Loss of Instrument Air
16. 3-ONOP-019, Intake Cooling Water Malfunction
17. 4-ONOP-019, Intake Cooling Water Malfunction
18. 3-ONOP-023.2, Emergency Diesel Generator Failure
19. 4-ONOP-023.2, Emergency Diesel Generator Failure
20. 3-ONOP-041.7, Shutdown LOCA [Mode 3 (less than 1000 psig) or Mode 4]
21. 4-ONOP-041.7, Shutdown LOCA [Mode 3 (less than 1000 psig) or Mode 4]
22. 3-ONOP-041.8, Shutdown LOCA [Mode 5 or 6]

Procedure No.:	Procedure Title:	Page: 7
0-EPIP-20106	Natural Emergencies	Approval Date: 5/30/01

2.1.4 (Cont'd)

23. 4-ONOP-041.8, Shutdown LOCA [Mode 5 or 6]
24. 3-ONOP-050, Loss of RHR
25. 4-ONOP-050, Loss of RHR
26. 3-ONOP-075, Auxiliary Feedwater System Malfunction
27. 4-ONOP-075, Auxiliary Feedwater System Malfunction
28. 0-ONOP-103.3, Severe Weather Preparations
29. 0-OP-003.1, 125V Vital DC System
30. 3-OP-013, Instrument Air System
31. 4-OP-013, Instrument Air System
32. 0-OP-016.5, Halon Suppression System
33. 0-OP-026, Cat 400 Operation
34. 0-OSP-012.1, Diesel Driven Service Water Pump Operability Test
35. 0-OSP-016.23, Diesel Driven Fire Pump Operability Test
36. 3-OSP-023.1, Diesel Generator Operability Test
37. 4-OSP-023.1, Diesel Generator Operability Test
38. 0-OSP-074.3, Standby Steam Generator Feedwater Pumps Availability Test
39. 0-OSP-102.1, Flood Protection Stoplog Inspection
40. 0-OSP-200.1, Schedule of Plant Checks and Surveillances
41. 0-PMI-103.1, Seismograph Quarterly Functional Check and Tri-Annual Battery Replacement
42. 0-EPIP-20101, Duties of Emergency Coordinator
43. 0-EPIP-20110, Criteria for and Conduct of Owner Controlled Area Evacuation
44. 0-EPIP-20112, Communication Network

Procedure No.:	Procedure Title:	Page:
0-EPIP-20106	Natural Emergencies	8
		Approval Date:
		5/30/01

2.1.5 Regulatory Guidelines

1. Station Blackout Guidelines:

- a. NRC Regulatory Guide 1.155, Station Blackout
- b. NUMARC 87-00, Guidelines and Technical Bases for NUMARC Initiatives Addressing Station Blackout at Light Water Reactors

2.1.6 Miscellaneous Documents (i.e., PC/M, Correspondence)

1. Turkey Point Radiological Emergency Plan
2. Security Force Instruction (SFI) 3002, Hurricane Preparedness
3. Turkey Point [Fossil] Plant, Units 1 and 2 Hurricane Plans
4. PC/M 87-212, EDG Enhancement Site Preparation
5. PC/M 89-124, Repair/Replace Stoplogs On East Side of Auxiliary Building
6. PC/M 90-390, Plant Perimeter Floodwell Repair
7. PC/M 90-449, CCW Area Pipe Trench Floodwells
8. PC/M 92-086, Secondary Containment of Unit 4 Turbine Lube Oil Reservoir
9. JPN-PTN-SECJ-88-079, Safety Evaluation Temporary External Flood Protection Barriers
10. JPN-PTP-90-1902, External Flood Protection Enhancement Program - Plant Drainage Evaluation
11. JPNS-PTN-90-0111, Turkey Point Units 3 and 4 RHR Pump Room Access Hatch Removals
12. JPNS-PTN-96-0352, dated May 13, 1996, Hurricane Shutdown Criteria
13. National Oceanic and Atmospheric Administration Information - Information on Area Tornado and Hurricane Reports
14. EP AD-007, Emergency Response Facilities and Equipment Surveillance
15. PC/M 97-024, Fire Barrier Upgrades
16. PC/M 01-022, Security Enhancements in Support of 2001 OSRE

Procedure No.:	Procedure Title:	Page:
0-EPIP-20106	Natural Emergencies	9
		Approval Date:
		5/30/01

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

2.3 Commitment Documents

2.3.1 L-91-184, PRA Transmittal Letter to NRC, dated June 25, 1991

2.3.2 Turkey Point Plant Units 3 & 4 Probabilistic Risk Assessment Individual Plant Examination Final Report, dated June 21, 1991

2.3.3 Station Blackout

1. L-89-144, Information to Resolve Station Blackout
2. JPN-PTP-89-3253, Turkey Point Units 3 and 4 Response to NRC on Station Blackout Open Items
3. Turkey Point Units 3 and 4 - Safety Evaluation For Proposed Implementation Of The Station Blackout Rule (10CFR 50.63) (TAC Nos. 68618 and 68619), dated June 15, 1990
4. L-90-275, Implementation Of The Station Blackout Rule
5. L-90-338, Comments On NRC's Safety Evaluation for Station Blackout
6. L-90-56, Information To Resolve Station Blackout, dated March 29, 1990

2.3.4 L-94-107, dated May 5, 1994, Response to Generic Letter 87-02 concerning earthquake created relay chatter

Procedure No.:	Procedure Title:	Page:
0-EPIP-20106	Natural Emergencies	10
		Approval Date:
		9/28/01

3.0 **RESPONSIBILITIES**

- 3.1 It shall be the responsibility of the following individuals to protect personnel and the plant from the effects of the emergency and to comply with the steps outlined in Section 5.0 of this procedure:
 - 3.1.1 Emergency Coordinator
 - 3.1.2 Emergency Preparedness Coordinator
 - 3.1.3 OSC Manager
 - 3.1.4 OSC Mechanical Coordinator
 - 3.1.5 OSC I&C Coordinator
 - 3.1.6 OSC Electrical Coordinator
 - 3.1.7 TSC Operations Manager
 - 3.1.8 TSC Chemistry Supervisor
 - 3.1.9 TSC Health Physics Supervisor
 - 3.1.10 TSC Security Supervisor
 - 3.1.11 Fire Protection Supervisor
 - 3.1.12 TSC Supervisor
 - 3.1.13 TSC Technical Assistant to the Emergency Coordinator
 - 3.1.14 NIS Supervisor
- 3.2 The Emergency Coordinator shall ensure notifications are performed per 0-EPIP-20101, DUTIES OF EMERGENCY COORDINATOR, for natural emergencies meeting emergency action level criteria.
- 3.3 The TSC Operations Manager and the TSC Maintenance Manager will report the status of hurricane preparations to the Emergency Coordinator. All other managers and supervisors will report the status of hurricane preparations to the Emergency Preparedness Coordinator, who will keep the Emergency Coordinator apprised.

Procedure No.:	Procedure Title:	Page:
0-EPIP-20106	Natural Emergencies	11
		Approval Date: 5/30/01

4.0 DEFINITIONS

- 4.1 CATEGORY 1 HURRICANE: Hurricane with wind speed between 74 and 95 miles per hour (mph).
- 4.2 CATEGORY 2 HURRICANE: Hurricane with wind speed between 96 and 110 mph.
- 4.3 CATEGORY 3 HURRICANE: Hurricane with wind speed between 111 and 130 mph.
- 4.4 CATEGORY 4 HURRICANE: Hurricane with wind speed between 131 and 155 mph.
- 4.5 CATEGORY 5 HURRICANE: Hurricane with wind speed greater than 155 mph.
- 4.6 EYE: The center of a hurricane where calm prevails, with winds of no more than 20-30 mph and little or no rain.
- 4.7 HURRICANE: Same as a tropical storm, but the winds are over 73 mph and a well defined low barometric pressure center, called the EYE of the storm, is present.
- 4.8 HURRICANE ADVISORY: This is an information release put out every six hours, usually at 12 o'clock and 6 o'clock both day and night whenever a hurricane exists; the advisory is continually updated and this information is issued in the form of HURRICANE BULLETINS which are issued every 3 hours, day and night.
- 4.9 HURRICANE WARNING: This is a communication from NOAA, issued whenever a hurricane is between 12 and 24 hours from, and approaching, the U.S. coast and applies to an area approximately 50 miles either side of the expected landfall. This warning gives the expected time and location of landfall, as well as the hurricane's size, maximum winds, direction and speed of travel. The warning may also describe the coastal areas where high water, floods or high waves may be expected.

Procedure No.:	Procedure Title:	Page:
0-EPIP-20106	Natural Emergencies	12
		Approval Date:
		5/30/01

- 4.10 HURRICANE WATCH: This is a communication from NOAA, issued whenever a hurricane is between 24 and 48 hours from, and approaching, the U.S. coast and comprises an area approximately 100 miles either side of the expected landfall. It also gives the size, maximum winds, direction and speed of travel.
- 4.11 HIGH WINDS: A wind of such velocity that the following hazards would be present:
- 4.11.1 An employee would be exposed to being blown from an elevated location.
 - 4.11.2 An employee on material handling equipment could lose control of material being handled.
 - 4.11.3 An employee would be exposed to other hazards not controlled by the standard involved.
- 4.12 OWNER CONTROLLED AREA: That portion of the FPL property surrounding and including Turkey Point Plant which is subject to limited access and control as deemed appropriate by FPL.
- 4.13 POWER BLOCK: Structures comprising all permanent nuclear, power generation, and cooling structures, systems, and components within the Protected Area and permanent Safety Related or Quality Related utilities (e.g., air, water, and electric) both inside and outside the Protected Area.
- 4.14 TORNADO: A violently rotating column of air in contact with the ground, usually developing from severe thunderstorms or hurricanes.
- 4.15 TORNADO WARNING: This condition is declared once the surveillance means have shown that a tornado has been sighted. The area for which this warning is issued is usually smaller than that for which a watch is declared.
- 4.16 TORNADO WATCH: Meteorological conditions in the area described as favorable to the formation of tornadoes.
- 4.17 TROPICAL STORM: A weather disturbance of large size with winds of 39 to 73 mph, rotating in a counterclockwise direction, accompanied by torrential rains and an area of low barometric pressure.
- 4.18 TROPICAL STORM WARNING: This is a communication from NOAA issued whenever a tropical storm is 12 to 24 hours from and approaching, the U.S. coast.

Procedure No.:	Procedure Title:	Page:
0-EPIP-20106	Natural Emergencies	13
		Approval Date:
		5/30/01

5.0 PROCEDURE

CAUTIONS

- *Substantial portions of this procedure support Commitments 2.3.1. and 2.3.2. Do not delete material from this procedure without a full review of these commitments.*
- *Preparations for a hurricane are extensive. Start efforts early and take a conservative approach; pre-hurricane rain and winds may hamper preparation efforts.*
- *All unnecessary personnel in the Protected Area and all visitors in the Owner Controlled Area shall be required to leave when a hurricane warning is issued for the area. Flooding may make later evacuation impossible.*
- *If a hurricane passes directly over the plant area, do not assume the hurricane has passed when the winds subside and rain stops. This only means that the EYE of the hurricane is over the area, and within approximately one hour the winds will begin blowing again from the opposite direction as the second half of the hurricane passes.*
- *When a hurricane is near the area and high winds are occurring, or if there is significant likelihood that a tornado will strike the immediate plant site, keep all activities outside of the plant buildings to a minimum.*
- *Do not assume the emergency to be over until the receipt of official word from the NOAA/NWS that there is no longer a threat to the area.*

NOTES

- *The Emergency Coordinator has the authority to perform, or not to perform, the steps of this procedure as he deems necessary.*
- *Timely and efficient site preparations must be made prior to the issuance of the evacuation orders by the counties. Failure to do so, may result in a shortage of personnel to prepare the plant site for the hurricane.*
- *Testing of diesel equipment, with the exception of the EDG's, is not required if testing has been performed within the last 7 days.*
- *Walkdowns should not begin until approximately 24 hours into hurricane preparations to allow Maintenance an opportunity to initiate their tiedowns.*
- *Walkdowns should be completed approximately 24 hours before completing hurricane preparations to allow Maintenance the opportunity to close out the items.*
- *Personnel staying onsite through the hurricane should be onsite at least one full shift before the hurricane is projected to make landfall.*
- *The coordinates for Turkey Point are 25.3 Latitude and 80.2 Longitude.*

Procedure No.:	Procedure Title:	Page:
0-EPIP-20106	Natural Emergencies	14
		Approval Date:
		5/30/01

5.1 Weather Reports for Emergency Classification Determination

5.1.1 Reliable information on approaching severe weather disturbances is expected to be available from the following sources. Any method of notification from the National Oceanic and Atmospheric Administration/National Weather Service (NOAA/NWS) may be used to receive weather reports for emergency classification determination.

1. The NOAA/NWS will issue warnings received by the State of Florida Department of Emergency Management (DEM). The Florida DEM will issue an All Points Bulletin from the State Warning Point via ESATCOM. The Bulletin will identify areas to be affected by the severe weather and will be reliable for Control Room notification,

OR

2. The NOAA/NWS will issue warnings received by the FPL System Operations Power Coordinator's Office which will relay the information to the Turkey Point Units 3 and 4 Control Room. The Control Room will receive this information through one of the normal or emergency communication channels described in 0-EPIP-20112, Communications Network.

5.2 Tornado

5.2.1 For a tornado that has been sighted in the Owner Controlled Area or a tornado striking any Power Block structure, the Emergency Coordinator should perform the following:

Initials/Date

_____/_____

1. Instruct plant personnel to immediately seek safe shelter.

_____/_____

2. Consult 0-EPIP-20101, DUTIES OF EMERGENCY COORDINATOR, for direction.

_____/_____

3. Ensure that plant structures and equipment are surveyed for damage after the occurrence, and take appropriate action to maintain the units in a safe condition.

_____/_____

4. Request additional support via the Duty Call Supervisor to repair damaged equipment and commence clean-up.

Procedure No.: 0-EPIP-20106	Procedure Title: Natural Emergencies	Page: 15
		Approval Date: 5/30/01

5.3 Hurricane Warning

5.3.1 Emergency Coordinator Responsibilities include the following:

Initials/Date

_____/_____ 1. Consult 0-EPIP-20101, DUTIES OF EMERGENCY COORDINATOR, for direction.

_____/_____ 2. Order all unnecessary work stopped.

NOTE

Although Emergency Response Facilities (ERF) are not required to be activated at an Unusual Event, the Emergency Coordinator may request ERF staffing.

_____/_____ 3. Determine the need for additional staffing and consider alternative means of transportation for callout personnel to minimize the number of personal vehicles on site.

NOTES

- *All nonessential personnel in the Protected Area and all visitors in the Owner Controlled Area shall be required to leave when a Hurricane Warning is issued for the area.*
- *When deciding to release non-essential personnel, consideration should also be given to providing maintenance and hurricane preparation personnel enough time to properly tend to their homes and families, while still allowing plant preparations to continue.*

_____/_____ 4. Ensure the release of non-essential personnel in a phased, controlled manner as hurricane preparations are completed or as personal circumstances dictate.

_____/_____ a. Release non-essential personnel giving sufficient time, in advance of severe weather to allow personnel to arrive safely at their homes and avoid any undue congestion with the public.

_____/_____ 5. Investigate the need for relocation of the TSC, OSC or EOF.

_____/_____ 6. Establish a shift schedule for response personnel to provide for continuous plant support.

_____/_____ 7. Brief the NPS on the personnel available for emergency teams and the capabilities/limitations of support.

Procedure No.:	Procedure Title:	Page:
0-EPIP-20106	Natural Emergencies	16
		Approval Date:
		5/30/01

Initials/Date

5.3.1 (Cont'd)

_____/_____

8. Brief emergency response personnel on the following:

_____/_____

a. The storm

_____/_____

b. Safety precautions

_____/_____

c. Expected duties

_____/_____

d. Potential problems

_____/_____

e. Contingencies

_____/_____

f. Communications systems

_____/_____

9. Ensure adequate preparations are made by conferring with the following:

_____/_____

a. TSC Operations Manager

_____/_____

b. TSC Maintenance Manager

_____/_____

c. Emergency Preparedness Coordinator

_____/_____

10. Determine when it is safe for personnel to return to work and ensure appropriate notifications are made.

NOTES

- If lowering high mast lights, the fixture must be lowered prior to winds exceeding 40 mph on-site.
- Each fixture requires approximately 30 minutes to lower.
- Increased safety precautions may be necessary due to the possibility of having to plug the lowering winch into a hot circuit while raining.

_____/_____

11. The following guidelines should be considered if winds are expected to exceed 120 mph, and may be considered for storms with lesser winds:

_____/_____

a. Lower the four high-mast security lights in the vicinity of critical equipment (#8, #9, #12 and #13).

_____/_____

b. Secure lowered high-mast light fixtures using an approved tie-down method.

Procedure No.:	Procedure Title:	Page:
0-EPIP-20106	Natural Emergencies	17
		Approval Date:
		5/30/01

Initials/Date

5.3.1 (Cont'd)

12. The following guidelines should be considered for a Category 5 Hurricane Warning and may be considered for lesser category hurricanes:

NOTE

The Auxiliary Building is the preferred location for the TSC, but if flood levels are expected above 18 foot elevation the Cable Spreading Room, 4160V/480V rooms, or the Unit 4 EDG Building (upper floor) may be preferred.

_____/_____

- a. Direct the relocation of the TSC, Security personnel and OSC to suitable locations.

NOTES

- *Emergency Coordinator responsibilities should remain with (or be transferred back to) the Nuclear Plant Supervisor (NPS) upon the relocation of the TSC/OSC due to the lack of communication, assessment and support capabilities available.*
- *The Emergency Response Organization should remain at the relocated OSC and provide support resources, principally emergency teams, to the NPS during the storm.*
- *As conditions warrant, an alternate EOF can be established at the PSL EOF or the Juno Beach office building*

_____/_____

- b. Brief the NPS upon initiating relocation of the TSC/OSC, and transfer Emergency Coordinator duties to him.

_____/_____

- c. Relocate the following emergency response personnel to the Control Room:

_____/_____

(1) TSC Dose Assessment Technician

_____/_____

(2) EOF Communicator

_____/_____

(3) TSC/ENS Communicator

_____/_____

(4) ERDADS Operator

Procedure No.:	Procedure Title:	Page:
0-EPIP-20106	Natural Emergencies	18
		Approval Date:
		5/30/01

Initials/Date

5.3.1.12 (Cont'd)

_____/_____

- d. Evaluate the oncoming storm and select desired guidelines and contingency actions for implementation:

_____/_____

- (1) Discuss with the TSC Operations Manager the guidelines from Enclosure 3 and Enclosure 4 to determine if any should be implemented.

_____/_____

- (2) Discuss with the TSC Maintenance Manager to select and prioritize desired guidelines from Step 5.3.4.

CAUTION

Evacuation of a remote station during the hurricane presents great risk to personnel; adequate provisions must be made ahead of time to minimize this risk.

- e. Ensure that the following remote field stations are habitable and well equipped for local actions:

_____/_____

- (1) 480V Load Center Rooms (i.e., handtools, meter, fuses, herculite, tape, food, water)

_____/_____

- (2) Auxiliary Building (i.e., handtools, herculite, roll plastic, tape, meter)

_____/_____

- (3) Cable Spreading Room (i.e., handtools, meter, fuses, roll plastic, tape, meter, fuses, food, water)

_____/_____

- (4) EDG Buildings (i.e., handtools, meter, fuses, filters, food, water)

Procedure No.:	Procedure Title:	Page:
0-EPIP-20106	Natural Emergencies	19
		Approval Date:
		5/30/01

Initials/Date

5.3.2 Emergency Preparedness Coordinator Responsibilities include the following:

NOTE

The Emergency Preparedness Coordinator has overall responsibility for storm preparedness.

- _____/_____ 1. Ensure the Emergency Coordinator is kept informed of the preparation status.

NOTE

Steps of this procedure may be only partially implemented based on management judgment.

- _____/_____ 2. Ensure the instructions of this procedure are being properly and expeditiously implemented.
- _____/_____ 3. Consult with the Plant General Manager and the Protection Services Manger for establishing Shift Directors to coordinate storm preparations.
- _____/_____ 4. Coordinate the following with the Human Resources Manager:
- _____/_____ a. Plans to evacuate the families of emergency crews, so that those remaining can devote their full efforts to the plant.
- _____/_____ b. Set up the camera system for Vice President updates.
- _____/_____ c. Provide information to plant personnel in *TO THE POINT*.
- _____/_____ 5. Consult with Human Resources Manager and the Business Systems Manager the communication of all relevant personnel issues such as expectations for reporting to work, rumor control, etc.

NOTE

When establishing hurricane staff assignments, consideration should be given to the duration of the storm and its intensity. (i.e., forward speed, windspeed, projected path, etc.)

- _____/_____ 6. Collect staffing requirements from responsible departments to ensure completion of Attachment 1.

Procedure No.:	Procedure Title:	Page:
0-EPIP-20106	Natural Emergencies	20
		Approval Date:
		5/30/01

Initials/Date

5.3.2 (Cont'd)

_____/_____

7. Consider generation of an overtime letter which states that deviation from the 72 hour rule is probable.

_____/_____

8. Perform frequent walkdowns of the plant site and exterior with various key managers inspecting for and reducing potential missiles. [Reference Substep 2.1.5.1]

_____/_____

9. Coordinate activities of the various plant departments to resolve working level problems that may arise during storm preparations and any licensing issues.

10. Coordinate the following with the Materials Management Manager:

_____/_____

a. Purchase and properly store a three day supply of the following for Operations, Maintenance, Security, and support personnel staying on site during the storm:

_____/_____

(1) Food items

_____/_____

(2) Water, beverages

_____/_____

(3) Paper plates, cups

_____/_____

(4) Plastic utensils

_____/_____

(5) Paper towels

_____/_____

(6) Soap

_____/_____

b. Make arrangements for purchase of portable bedding for on site emergency responders, as required, by the Emergency Coordinator.

_____/_____

c. Ensure all on site vehicles have been fueled, and gas storage tanks/diesel fuel storage tanks are full.

_____/_____

d. Verify adequate supply of emergency items are available.

_____/_____

e. Wrap, elevate, relocate, or otherwise protect spare motors and other parts or tools that may be required for recovery.

_____/_____

f. Verify the gas cylinders are properly secured in the gas house outside the protected area (southwest of main truck gate and south of the Hazardous Waste Building).

_____/_____

11. Coordinate with the Business Systems Manager the need to make arrangements for any offsite vendors for personnel, services, or supplies, as needed, to support recovery efforts immediately following the storm.

_____/_____

12. Transmit to all department heads copies of Attachment 1 upon completion.

Procedure No.:	Procedure Title:	Page:
0-EPIP-20106	Natural Emergencies	22
		Approval Date:
		5/30/01

Initials/Date 5.3.2 (Cont'd)

NOTE

County EOCs declaring a Level 3 status may be indicative of a severe threat by an approaching storm.

- _____/_____ 23. Establish a point of contact with Miami-Dade County and NOAA/NWS to obtain periodic status reports on the following:
- _____/_____ a. Tropical storm/Hurricane
- _____/_____ b. County storm preparations (evacuation plans, etc.)
- _____/_____ c. Police and fire/rescue unit availability
- _____/_____ d. County water supply
- _____/_____ (1) Determine the need to isolate the county water supply based upon declared contamination or possible contamination through communications with the county.
- _____/_____ (2) **IF** it is necessary to isolate the water supply, **THEN** request a clearance issued to the NPS to close Raw Water Storage Tank Inlet Isolation Valves 730 and 885.
- _____/_____ 24. Ensure a siren restoration/inspection crew is on standby at the EOF.
- _____/_____ 25. Provide information to the EOF for press releases as soon as practical, and verify press releases are distributed as appropriate.
- _____/_____ 26. Discuss with the Emergency Coordinator/Recovery Manager the need to partially or fully staff the EOF/ENC.
- _____/_____ 27. Coordinate the connection of the ERDS link with the NRC.
- _____/_____ 28. Ensure the EOF has established contact with the FPL storm center, located adjacent to the EOF.
- _____/_____ 29. Periodically update the Hurricane Information Line with updates from the National Hurricane Center.

Procedure No.:	Procedure Title:	Page:
0-EPIP-20106	Natural Emergencies	23
		Approval Date:
		5/30/01

Initials/Date

5.3.2 (Cont'd)

_____/_____

30. Ensure all required activities from 0-ONOP-103.3, Severe Weather Preparations, have been completed as necessary.

_____/_____

31. Contact FPL Aviation or FPL Storm Center through EOF to arrange for helicopters to bring support personnel and equipment to the site immediately after passage of the storm.

_____/_____

32. Establish phone numbers for personnel to call following the hurricane and ensure these numbers are provided to plant personnel.

_____/_____

33. Establish a staging location for those employees not staying onsite to meet following the hurricane and ensure the location is known to plant personnel.

_____/_____

34. Contact St. Lucie management, Juno Beach Staff or elsewhere to arrange for relief workers following the hurricane.

_____/_____

35. Keep plant personnel apprised of storm status.

_____/_____

36. Perform the site facilities responsibilities of Step 5.3.12.

37. The following guidelines should be considered for a Category 5 Hurricane Warning, and may be considered for lesser category hurricanes:

_____/_____

a. Make preparations, as directed, to relocate the TSC and OSC:

_____/_____

(1) Dismiss TSC/OSC staff who are not on the Emergency Response Teams and are not required to assure the effectiveness of the emergency response organization. Notify appropriate managers.

Procedure No.:	Procedure Title:	Page:
0-EPIP-20106	Natural Emergencies	24
		Approval Date:
		5/30/01

Initials/Date

5.3.2.37.a (Cont'd)

_____/_____

- (2) Coordinate with the TSC Maintenance Manager to move all portable emergency equipment and supplies to a location accessible from the new TSC/OSC location.

_____/_____

- (3) Establish dedicated phone lines to the Control Room from the relocated TSC/OSC and ensure sufficient portable radios and cellular phones are available, or contact the FPL Miami Radio Shop and/or Telecommunications to locate additional radio equipment.

_____/_____

- (4) Coordinate with the Nuclear Materials Management Manager to stage bedding, food, and water at a location accessible from the new TSC/OSC location.

_____/_____

- (5) Establish a berthing area and an area for eating and drinking in the Cable Spreading Room or other designated location.

_____/_____

- (6) Ensure a continuous path of access is maintained from the Auxiliary Building to the New Electrical Equipment Room to the Cable Spreading Room.

_____/_____

38. Refer to 0-ADM-033, PTN Industrial Safety Program, for the suspension of outside work during high wind conditions.

5.3.3 OSC Manager Responsibilities include the following:

_____/_____

1. Survey construction sites (if applicable) to ensure all light material is either tied down or placed indoors.

_____/_____

2. Survey site laydown areas to secure or remove loose objects.

_____/_____

3. Check tie downs on all temporary/portable buildings/structures that could be damaged by strong winds and consult facility drawings to ensure all structures are checked.

_____/_____

4. Ensure H₂ trailer at U 1 and 2 gashouse is tied down and isolated.

_____/_____

5. Ensure that PTF hurricane preparations are satisfactory so as not to impact the nuclear units and coordinate walkdowns at the island laydown areas.

_____/_____

6. Coordinate with the Emergency Coordinator the need to augment FPL manpower with craft personnel, if available.

Procedure No.:	Procedure Title:	Page:
0-EPIP-20106	Natural Emergencies	25
		Approval Date:
		5/30/01

Initials/Date

5.3.3 (Cont'd)

- | | |
|---------------|--|
| _____ / _____ | 7. Ensure the Land Utilization and Facilities Supervisor completes the following: |
| _____ / _____ | a. Make arrangements (including with any outside contractor within Land Utilization responsibility) to remove, tie down, or otherwise secure equipment and material to keep it from blowing away. |
| _____ / _____ | b. Ensure that equipment is immediately available following passage of storm force winds to clear Palm Drive following the hurricane. (All terrain forklift, tractor, torch, cable cutters, chainsaws and support equipment) |
| _____ / _____ | c. Stage water trailer in a secure location. |
| _____ / _____ | d. Survey the Sea Survival area and secure or remove loose material. |
| _____ / _____ | e. Ensure canal pumps are tied down or otherwise secured. |
| _____ / _____ | f. Ensure dumpsters are emptied prior to the closure of the county landfills. |
| _____ / _____ | g. Once dumpsters are emptied, coordinate with Mechanical Maintenance to remove/relocate the dumpsters. |
| _____ / _____ | 8. Ensure the Emergency Coordinator is kept informed of the preparation status. |

NOTE

Individuals appointed to emergency teams with personal considerations that can be addressed by the Company should be identified to the Human Resources Manager.

- | | |
|---------------|--|
| _____ / _____ | 9. Solicit volunteers for emergency staffing and coordinate activity with the Emergency Preparedness Coordinator to resolve any personal considerations. |
| _____ / _____ | 10. Contact additional Maintenance Department personnel that are necessary for hurricane preparations. |

Procedure No.:	Procedure Title:	Page:
0-EPIP-20106	Natural Emergencies	26
		Approval Date:
		5/30/01

Initials/Date

5.3.3 (Cont'd)

_____/_____

11. Establish emergency teams to meet the following criteria:

_____/_____

a. Provide for emergency maintenance.

_____/_____

b. Provide for around-the-clock coverage.

_____/_____

12. Establish backup crews for contingency support.

13. The following guidelines should be considered for a Category 5 Hurricane Warning, and may be considered for lesser category hurricanes:

_____/_____

a. Assist the Emergency Coordinator in establishing a shift schedule for response personnel, and preposition reliefs to preclude the need to move personnel during the storm.

_____/_____

b. Establish a tool and spare parts area in a secure location where a minimum but sufficient number of tools will be available for each maintenance discipline's use.

Procedure No.:	Procedure Title:	Page:
0-EPIP-20106	Natural Emergencies	27
		Approval Date:
		5/30/01

Initials/Date

5.3.3.13 (Cont'd)

_____/_____

- c. Discuss with the Emergency Coordinator what additional protection may be required for the following areas listed in priority order:

_____/_____

(1) Component Cooling Water Pump Rooms:

_____/_____

- (a) Protect components from water and wave action as much as possible (e.g., via sandbagging).

_____/_____

- (b) Check that area deckplates are bolted down and hurricane clips installed.

_____/_____

(2) Auxiliary Building:

_____/_____

- (a) Bag alternate shutdown headset and handset connections.

_____/_____

- (b) Provide a means for measuring water level in the building.

_____/_____

- (c) Consider sandbags around MCCs so as to allow access but prevent flooding at low levels.

_____/_____

- (d) Sandbag pipe trenches under the outer walls of the CCW rooms and the SI pump room as required.

_____/_____

- (e) Seal outer doors (consider sandbags where appropriate).

_____/_____

- (f) Consider covering the MCCs under areas where water leakage has been known to occur (under ceiling joints).

_____/_____

(3) Spent Fuel Pit Pumps:

_____/_____

- (a) Bag the non-running motors to protect against water intrusion.

_____/_____

- (b) Sandbag and herculite the entrance to the heat exchanger rooms.

Initials/Date5.3.3.13.c (Cont'd)**CAUTION**

Due to the exposed location of the Unit 3 EDG fuel oil transfer pumps, the Unit 3 EDGs may not be available for an extended period in the storm. Priority should be placed on protecting the Unit 4 EDGs, then protecting Unit 3 EDGs as time permits.

_____/_____

(4) Turbine Building:

_____/_____

- (a) Walkdown and bag appropriate equipment (including alternate shutdown headset and handset connections) to protect against water intrusion.

_____/_____

- (b) Verify deckplates are securely bolted down and hurricane clips installed.

_____/_____

- (c) Verify any 18 foot elevation outer wall penetrations are securely plugged.

_____/_____

(5) Unit 4 EDG Building:

_____/_____

- (a) Remove decking and install a ladder so access between the upper and lower levels is possible without travel outside.

_____/_____

- (b) Seal and sandbag the ground floor doors.

_____/_____

(6) Electrical Equipment Room:

_____/_____

- (a) Provide a means for measuring water level in the room.

_____/_____

- (b) Sandbag at the door to the Auxiliary Building so as to allow access but prevent flooding at low levels.

_____/_____

(7) Unit 3 EDG Building:

_____/_____

- (a) Provide as much flood protection as possible without impeding the ability of personnel to evacuate toward the turbine building.

_____/_____

- (b) Create a sandbag and herculite floodwall to protect from flooding of the radiator compartment.

Procedure No.:	Procedure Title:	Page:
0-EPIP-20106	Natural Emergencies	29
		Approval Date:
		5/30/01

Initials/Date

5.3.3.13.c (Cont'd)

_____/_____

(8) AFW Cage:

_____/_____

- (a) Extend or plug the lube oil reservoir vents to prevent water intrusion.

_____/_____

- (b) Bag the pump governors to protect against water intrusion.

_____/_____

- (c) Bag the alternate shutdown communications headset and handset connections.

_____/_____

(9) 4KV Bus Rooms:

_____/_____

- (a) Seal all doors and penetrations on the 18 foot elevation. Consider at least sandbagging, possibly welding the doors.

_____/_____

- (b) Provide a means for measuring water level in the rooms.

_____/_____

(10) B MCC Rooms:

_____/_____

- (a) Seal the doors when Operations no longer requires access.

_____/_____

(11) Computer Room:

_____/_____

- (a) Seal the doors when Operations no longer requires access.

_____/_____

(12) A MCCs:

_____/_____

- (a) When Operations no longer requires access, shield or wrap the MCCs in protective material to minimize water intrusion.

_____/_____

- (b) Sandbag to allow access but prevent flooding at low levels.

_____/_____

(13) Auxiliary Building 10 Foot Elevation:

_____/_____

- (a) Bag alternate shutdown headset and handset connections.

_____/_____

(14) Non-Vital DC Battery and Bus Rooms:

_____/_____

- (a) Seal the doors when Operations no longer requires access.

Initials/Date

5.3.3.13 (Cont'd)

_____/_____

d. Provide support for the remote stations referenced in Enclosure 4:

CAUTION

Portable pumps and generators may be used in manned locations only if exhaust gases can be safely directed outside.

_____/_____

(1) Station Maintenance personnel and equipment (tools, fuses oil, filters) at remote stations that may require dewatering.

(2) **IF** possible, **THEN** position electricians and equipment to provide continuous voltage indication supporting early ground detection at remote stations where ground isolation may be required to measure grounds and voltages.

_____/_____

(a) Control Room

_____/_____

(b) Cable Spreading Room

_____/_____

(c) 480V Load Centers A-D rooms

_____/_____

(d) Auxiliary Building

_____/_____

(3) Deploy portable generators where needed.

_____/_____

(4) Provide materials at remote stations to allow sealing of leaking penetrations (such as door thresholds), water collection and water removal.

_____/_____

(5) Ensure adequate food and water is provided at remote stations for the duration of tropical storm force winds.

Procedure No.:	Procedure Title:	Page:
0-EPIP-20106	Natural Emergencies	31
		Approval Date:
		5/30/01

Initials/Date

5.3.3.13 (Cont'd)

_____/_____

- e. Provide facilities for the collection of human waste at remote stations, TSC/OSC and the Control Room, since the sewage system may be out of service. (Normally on the 18' elevation tied to the south side of the U4 SGFP room, and in the auxiliary building 18' elevation)

_____/_____

- f. If relocation of the OSC/TSC is necessary, and if space permits, coordinate with the Emergency Preparedness Coordinator the relocation of desks and chairs as required to the new OSC/TSC.

5.3.4 OSC Mechanical Coordinator Responsibilities include the following:

NOTES

- The combined capacity of pumps (a) through (f) below should equal or exceed 4900 GPM with pumps (a) and (b) making up the bulk of this capacity. The capacity of pumps (g) and (h) should equal or exceed 250 GPM each.
- The installation of drain plugs and portable dewatering pumps is intended for larger hurricanes where the storm surge might result in plant flooding (Category 4 and 5). Full or partial implementation, particularly the installation of dewatering pumps in the condenser pits, may be considered for lesser storms.

1. Install portable dewatering pumps, portable electric generators with fuel supplies, and associated suction and discharge hoses in the following areas:

_____/_____

- a. Unit 3 Condenser Pit Sump (locate at northeast corner near existing sump; suction 2-25', 1-90 degree elbow, 1-30' with strainer and footer valve; discharge 2-25').

_____/_____

- b. Unit 4 Condenser Pit Sump (locate at northeast corner near existing sump; suction 4-25', 2-90 degree elbows, 1-30' with strainer and footer valve; discharge 2-25').

Initials/Date

5.3.4.1 (Cont'd)

NOTE

All other pumps should have the following associated equipment; suction 2-25' with strainer and footer valves, discharge 4-25'.

_____/_____

c. On the floor, just east of Unit 3 HDP.

_____/_____

d. On the floor, just east of Unit 4 HDP.

_____/_____

e. By Unit 3 Blowdown Flash Tank.

_____/_____

f. In Catch Basin #15 (in RCA west of Unit 4 West Electrical Penetration Room).

_____/_____

g. Unit 3 CCW Pump Room north end.

_____/_____

h. Unit 4 CCW Pump Room south end.

_____/_____

i. Unit 3 RHR Room Sump.

_____/_____

j. Unit 4 RHR Room Sump.

_____/_____

k. Auxiliary Building Sump.

_____/_____

l. Unit 3 EDG Floor Drains.

CAUTION

If exhaust gases can be safely directed outside, portable pumps and generators may be used in manned locations.

_____/_____

m. Unit 3 4KV A and B Bus Switchgear Room.

_____/_____

n. Unit 4 4KV A and B Bus Switchgear Room.

_____/_____

o. Radwaste Building Truck Bay with discharge to Radwaste Building Floor Drain to #2 WHT.

Procedure No.:	Procedure Title:	Page:
0-EPIP-20106	Natural Emergencies	33
		Approval Date:
		5/30/01

Initials/Date

5.3.4 (Cont'd)

NOTES

- Drain plug installation should not be initiated unless the approaching hurricane is judged to present imminent potential of external flooding.
- Early rains may cause standing water in some areas which obscures drains and hampers drain plug installation. Installation must start early, but should be worked after or concurrent with the deployment of portable dewatering pumps.

- _____/_____ 2. Install drain plugs per Enclosure 2 after or during installation of portable dewatering pumps as necessary based on the potential for flooding (normally Category 4 or 5).

NOTES

- Stoplog installation should not be initiated unless the approaching hurricane is judged to present imminent potential of external flooding.
- Sandbags should be placed at the bottom of the stoplogs, as necessary, to prevent water intrusion through gaps between stoplog and floor.
- Sandbag dikes may be used to fortify either side of a stoplog.
- * indicates with Hold Down Pin installed.
- TPCW areas do not require flood protection. Floodwalls are identified in Drawing 5610-C-1695.
- Do not install stoplogs that may impede personnel from performing other duties until preparations have been completed.

- _____/_____ 3. Install stoplogs on plant flood protection walls as follows listed in priority order:
- _____/_____ a. Stoplog 19* - Entrance to Unit 3 Component Cooling Water Pump Area.
- _____/_____ b. Stoplog 20* - Entrance to Unit 4 Component Cooling Water Pump Area.
- _____/_____ c. Stoplog 16* - Entrance to Unit 3 Spent Fuel Pit Heat Exchanger Room (sandbags as required at both lower corners).

Procedure No.: 0-EPIP-20106	Procedure Title: Natural Emergencies	Page: 34
		Approval Date: 5/30/01

Initials/Date

5.3.4.3 (Cont'd)

_____/_____

d. Stoplog 18* - Entrance to Auxiliary Building Chemical Storage Area (East door to BAST Room).

_____/_____

e. Stoplog 22* - Entrance to Unit 4 Spent Fuel Pit Heat Exchanger Room.

_____/_____

f. Radwaste Building Stoplogs.

_____/_____

(1) Stoplog SL-1 - Northeast door to Radwaste Building.

_____/_____

(2) Stoplog SL-2 - Southeast door to Radwaste Building.

_____/_____

(3) Stoplog SL-4 - Top and Bottom - Overhead doorway Truck Ramp to Radwaste Building.

_____/_____

g. Stoplog 21* - Entrance to Unit 4 New Fuel Storage Area.

_____/_____

h. Stoplog 17* - Entrance to Unit 3 New Fuel Storage Area.

_____/_____

i. Stoplogs 14 and 15* - Between Unit 3 4160 Volt Switchgear Room and EDG Building.

_____/_____

j. Stoplogs 1* and 2 - South of Unit 4 Steam Generator Feed Pump Room.

_____/_____

k. Stoplog 3 - Southeast of Unit 4 Lube Oil Reservoir.

_____/_____

l. Stoplog 8 - Southeast of Unit 3 Lube Oil Reservoir.

_____/_____

m. Stoplogs 12 and 13 - East of Unit 3 Main Transformer.

_____/_____

n. Stoplogs 6 and 7 - East of Unit 4 Main Transformer.

_____/_____

o. Stoplogs 9* and 10 - South Wall of Unit 3 Condenser Pit.

_____/_____

p. Stoplog 5 - Entrance to Unit 4 Condenser Pit.

_____/_____

q. Stoplog 11 - Entrance to Unit 3 Condenser Pit.

Initials/Date

5.3.4 (Cont'd)

CAUTION

Prior to sandbagging manhole covers, ensure no personnel are in the tendon galleries.

_____/_____

4. Ensure east tendon gallery manhole covers (one per unit) are installed and covered with sandbags.

_____/_____

5. Remove sandblast booth.

_____/_____

6. Close the following outside doors, and install latch pins where applicable:

_____/_____

- a. Cable Spreading Room (Doors 132-1, 132-2 and 104-3 to roof)

_____/_____

- b. Unit 3 New Fuel Storage Room (rollup door)

_____/_____

- c. Unit 4 New Fuel Storage Room (rollup door)

_____/_____

- d. Unit 3 Spent Fuel Pit/Install Latch Pins

_____/_____

- e. Unit 4 Spent Fuel Pit/Install Latch Pins

_____/_____

- f. Unit 3 CCW Surge Tank Room

_____/_____

- g. Unit 4 CCW Surge Tank Room

_____/_____

- h. West Auxiliary Building Main Passageway to Turbine Building (Door 58-2)

_____/_____

- i. Unit 3 480 V Load Center Room (Door 96-1)

_____/_____

- j. Unit 4 480 V Load Center Room (Door 94-1)

_____/_____

- k. Unit 3 4160V Switchgear Room (Doors 70-1, 70-2, 71-1)

_____/_____

- l. Unit 4 4160 V Switchgear Room (Doors 67-1, 67-2, 68-1)

Initials/Date

5.3.4.6 (Cont'd)

1

m. CVCS Holdup Tank Enclosure (2)

1

n. 3A EDG Room (Doors 73-1, 75-1)

/

o. 3B EDG Room (Doors 72-1, 74-1)

p. East Auxiliary Building Main Passageway to Unit 4 CCW Room
(Door 58-1)

1

q. Control Building Elevator Vestibule (4)

1

r. Containment Purge Supply Fan Room

/

s. Auxiliary Building Laundry Room (Door 46-2)

/

t. Intake Storage Room (1)

/

u. Unit 3, B MCC Room (Doors 63-1, 63-2)

/

v. Unit 4, B MCC Room (Doors 61-1, 61-2)

1

w. Unit 3 Electrical Penetration Rooms (Doors 20-1 South, 19-1 West)

1

x. Unit 4 Electrical Penetration Rooms (Doors 26-1 North, 27-1 West)

y. Generator Exciter Switchgear Enclosures (2)

z. Radwaste Building Doors (East, North, Loading Ramp, Elevator)

_____ / _____

z. Radwaste Building Doors (East, North, Loading Ramp,)

aa. Condensate Polisher/E Load Center/B43 MCC Building

aa. Condensate Polisher/E Load Center/B43 MCC Building

bb. Computer Room (Doors 62-1, 62-2)

cc. DC Enclosure Building

dd. Boric Acid Storage Room (Door 41-1)

Initials/Date

5.3.4.6 (Cont'd)

1

ee. Safety Injection Pump Rooms (2)

1

ff. Amertap Control Center/4G MCC Enclosure (2)

/

gg. C Bus - 4160 Volt Switchgear Enclosure (2)

/

hh. Nuclear Gas House (1)

1

ii. Control Room to Auxiliary Building Roof (Door 108 A-2)

/

jj. Control Room to Fan Room (Doors 108 A-3, 108 A-4)

/

kk. Load Center F & G Enclosures (2)

/

II. Unit 4 EDG Building (Doors 133-1, 133-3, 138-1, 138-2, 136-1, 141-1)

/

mm. Dry Storage Warehouse

7. Verify the following roof hatches are installed and bolted in place.

1

a. Auxiliary Building - Stairwell to 10 ft. elevation

1

b. Auxiliary Building - RHR Pump and Hx Rooms

/

c. Auxiliary Building - Monitor Tank Room

/

d. Auxiliary Building - Demin Cubicles

1

e. Auxiliary Building - BA Evaporator Rooms

/

f. Radwaste Building

1

8. Ensure main passageways are cleared.

Procedure No.:	Procedure Title:	Page:
0-EPIP-20106	Natural Emergencies	38
		Approval Date:
		5/30/01

Initials/Date

5.3.4 (Cont'd)

NOTE

If unable to secure any of the items in Substeps 5.3.4.9 through 5.3.4.10 below, store them in the Machine Shop, Maintenance Shop or Dry Storage Building.

9. Remove items from areas subject to high winds, for example:

_____/_____
_____/_____
_____/_____
_____/_____
_____/_____
_____/_____
_____/_____
_____/_____
_____/_____

- a. Loose trash and debris
- b. Tools
- c. Sheet metal
- d. Empty containers, trash cans, drums
- e. Unnecessary hoses, electrical cords, welding cable
- f. Temporary power panels
- g. Lumber, pallets, platforms, work stations
- h. Cleaning equipment
- i. Portable resin funnels on Auxiliary Building roof

10. Tie down or secure the following loose equipment:

_____/_____
_____/_____
_____/_____
_____/_____
_____/_____
_____/_____

- a. Gas trailers (N₂ Trailer in RCA, etc.)
- b. Portable dewars
- c. Ladders
- d. Needed hoses, electrical cords
- e. Gang boxes
- f. Signs

Procedure No.:	Procedure Title:	Page:
0-EPIP-20106	Natural Emergencies	39
		Approval Date:
		3/14/02

Initials/Date

5.3.4 (Cont'd)

NOTE

Chemicals/oil should be stored securely above any expected flood level and in locations which will withstand expected winds.

- | | |
|---------------|---|
| _____ / _____ | 11. Store all chemical drums in the chemical waste building or other secure building, and oil drums in the oil house and/or chemical waste building. |
| _____ / _____ | 12. Fuel and chock the wheels of the diesel instrument air compressors and stage additional secured fuel drums/tanks adjacent to the compressors. |
| _____ / _____ | 13. Verify that the portable diesel fuel tank is topped off and operational for use after the storm and that any required fuel transfer hoses are stored with the tank. |
| _____ / _____ | 14. Consult Engineering for additional preparation requirements for empty tanks (i.e., installing temporary tie down anchors). Engineering will provide such additional requirements on a cases by cases basis. |
| _____ / _____ | 15. Check and if necessary, clean fuel oil tank roof vents to assure adequate pressure relief. |
| _____ / _____ | 16. Bolt or otherwise secure the hatches on the chemical feed tanks. |
| _____ / _____ | 17. Clean the intake trash pit. |
| _____ / _____ | 18. Tie down intake trash rakes and hoists in such a manner that they are secure, yet readily available if needed. |
| _____ / _____ | 19. Dog the intake area gantry crane, the cask crane and the turbine deck gantry crane and ensure the hooks are fully raised. |

Procedure No.:	Procedure Title:	Page:
0-EPIP-20106	Natural Emergencies	40
		Approval Date:
		3/14/02

Initials/Date

5.3.4 (Cont'd)

- | | |
|---------------|---|
| _____ / _____ | 20. Designate storm duty vehicles and perform the following: |
| _____ / _____ | a. Establish a designated location for storm duty vehicles inside the Protected Area and RCA. |
| _____ / _____ | b. Ensure these vehicles are serviced and fueled. |
| _____ / _____ | c. Move unnecessary vehicles outside the Protected Area. |
| _____ / _____ | 21. Remove or adequately secure scaffolding that would be exposed to high winds. |
| _____ / _____ | 22. Tie down or remove portable toilets, air compressors, and gangboxes; wire the gangboxes shut. |
| _____ / _____ | 23. Disassemble and remove temporary buildings not having tie-downs (i.e., the wooden buildings at the containment equipment hatches). |
| _____ / _____ | 24. Move valuable equipment to high ground. |
| _____ / _____ | 25. IF winds greater than 120 mph are expected, THEN ensure the Water Treatment Plant ECOLOCHEM trailers are tied down. |
| _____ / _____ | 26. Move Hydrazine Tank into small Chemical Storage Building east of Unit 4 EDGs. |
| _____ / _____ | 27. Ensure personnel/equipment ramps over conduits on Aux Building Roof, Control Room Roof, and other locations are, bolted down, tied down, or removed and stored in secure locations. |
| _____ / _____ | 28. Ensure security ballistic shields located on the Turbine Deck (locations 1, 2, 3 and 4 in Attachment 2), the Auxiliary Building roof (location 5 in Attachment 2) and the Radwaste Building roof (locations 6 and 7 in Attachment 2) are tied down, removed, or placed in a safe configuration. |
| _____ / _____ | 29. Secure any plywood doors on the Issues Warehouse. |
| _____ / _____ | 30. Take portable bedding to Control Room 6 hours before hurricane is projected to hit. |
| _____ / _____ | 31. Establish emergency staffing to meet the staffing plans outlined in Attachment 1. |
| _____ / _____ | 32. Perform the site facilities duties of Step 5.3.12. |

Procedure No.:	Procedure Title:	Page:
0-EPIP-20106	Natural Emergencies	41
		Approval Date:
		5/30/01

Initials/Date

5.3.5 OSC I&C Coordinator Responsibilities include the following:

- _____/_____ 1. Position sandbags in the following areas to control any potential flooding or inleakage that may develop as necessary based on the potential for flooding, normally a Category 4 or 5 (numbers are approximate):

NOTE

When constructing dikes use Figure 1 for guidance.

- | | |
|-------------|---|
| _____/_____ | a. 4KV A and B Bus Switchgear Rooms (50 each door) |
| _____/_____ | b. Turbine Area 18 ft Elevation - North and South Ends (500 each) |
| _____/_____ | c. Computer Room (60) |
| _____/_____ | d. Auxiliary Building East - West Hallway/Laundry Room Door, SI Pump Room Doors (50 each door) |
| _____/_____ | e. BAST Room Door (30) |
| _____/_____ | f. Radwaste Building Doors (50 each door) |
| _____/_____ | g. HP Building, Maintenance Building, Nuclear Administration Building, Nuclear Entrance Building, Training Building doors (30 each) |
| _____/_____ | h. CCW Rooms (200 each) |
| _____/_____ | i. Dry Storage Warehouse (100) |
| _____/_____ | j. TSC (100) |
| _____/_____ | k. If resources permit, the following areas may also be done: |
| _____/_____ | (1) Machine Shop |
| _____/_____ | (2) Nuclear Materials Issue Warehouse |
| _____/_____ | (3) Central Receiving Facility |

Procedure No.: 0-EPIP-20106	Procedure Title: Natural Emergencies	Page: 42 Approval Date: 5/30/01
---	--	--

Initials/Date

5.3.5.1.k (Cont'd)

_____/_____

(4) Main Truck Gate Entry Building

_____/_____

(5) Water Treatment Gate Entry Building

_____/_____

(6) Security Emergency Diesel Generator Enclosure.

_____/_____

2. Verify the gas cylinders are properly secured in the Gas House inside the RCA (East of Unit 4 Dearator).

_____/_____

3. Establish emergency staffing to meet the staffing plans outlined in Attachment 1.

5.3.6 OSC Electrical Coordinator Responsibilities include the following:

_____/_____

1. Ensure all doors to plant transformer control panels, outdoor electrical cabinets, etc. are closed and secured.

_____/_____

2. Coordinate with System Protection to ensure the switchyard is prepared for severe weather.

_____/_____

3. Determine if prestaging of portable generators is necessary (OSC, etc.).

_____/_____

4. Provide tarpaulins and ropes at various locations throughout the Auxiliary Building, and a supply of plastic film (pliofilm) in the Control Room, Cable Spreading Room, 4KV Switchgear Rooms and Computer Room.

_____/_____

5. Verify that the hatch cover/grating above each Heater Drain Pump, Condensate Pump, Steam Generator Feed Pump, and Auxiliary Transformer is secured.

NOTES

- Before locking dampers closed or installing protective covers, ensure Operations will not require use of the blocked fans.
- When the vent fans listed in Substep 5.3.7.17 are stopped, the following air intake, exhaust, or vent openings should be closed off.
- Protective covers on these dampers are required only if the dampers are inoperable.

6. Verify that the dampers of those openings equipped with dampers are locked in the closed position.

_____/_____

a. Spent Fuel Pit Inlet Air Vents

Procedure No.: 0-EPIP-20106	Procedure Title: Natural Emergencies	Page: 43
		Approval Date: 5/30/01

Initials/Date

5.3.6.6 (Cont'd)

_____/_____
_____/_____
_____/_____
_____/_____
_____/_____
_____/_____

- b. New Fuel Storage Room Fan Inlet Vent
- c. Spent Fuel Pit Heat Exchanger Room Fan Inlet Vent
- d. Spent Fuel Pit Heat Exchanger Room Exhaust Vent
- e. Containment Purge Supply Fan Air Intake
7. Secure electrical service to temporary facilities.
8. Protect the phone equipment rooms located in the support buildings (i.e., sandbags, visqueen, caulking).

NOTES

- Removal of the microwave dish antenna may require crane support.
- The microwave dish antenna on the NAB should be removed if winds are projected to exceed 140 mph.
- The ESATCOM dish antenna on the NAB should be removed if winds are projected to exceed 125 mph.

_____/_____
_____/_____
_____/_____
_____/_____
_____/_____
_____/_____

9. Coordinate removal of the microwave dish on the NAB.
10. Coordinate removal of the ESATCOM dish on the NAB.
11. Provide weather protection for Lighting Panels, Fire Protection Panels, and Distribution Panels as appropriate.
12. Consider strapping the doors of the F&G load centers closed, as time allows.
13. Establish emergency staffing to meet the staffing plans outlined in Attachment 1.
14. Perform the site facilities duties of Step 5.3.12.
15. **IF** personnel are relocated to areas containing Halon systems, **THEN** coordinate with the TSC Operations Manager **AND** disable Halon in accordance with 0-OP-016.5, Halon Suppression System.

Procedure No.:	Procedure Title:	Page:
0-EPIP-20106	Natural Emergencies	44
		Approval Date:
		11/4/01

Initials/Date

5.3.7 TSC Operations Manager Responsibilities include the following:

- _____/_____ 1. Ensure the Emergency Coordinator is kept informed of the preparation status.

NOTE

Individuals appointed to emergency teams with personal considerations that can be addressed by the Company should be identified to the Human Resources Manager.

- _____/_____ 2. Solicit volunteers for emergency staffing to resolve any personal conflicts and coordinate staffing with the Emergency Preparedness Coordinator.

- _____/_____ 3. Establish emergency teams to meet the staffing plans outlined in Attachment 1.

NOTES

- Substeps 5.3.7.4 through 5.3.7.14 are commitments. [Commitment - Step 2.3.3]
- Station Blackout commitments do not allow the use of RHR when only 1 EDG is available to power both units, therefore, if more than 1 EDG starts and picks up load following the Loss of Offsite Power, RHR may be restarted.

- _____/_____ 4. Place the units in an optimum configuration to maintain plant safety in preparation for the arrival of the hurricane. To determine the optimum plant configuration, consideration should be given to the probability of the storm being a Categories 3, 4 and 5 prior to landfall, diameter of the projected area involving hurricane force winds, the uncertainty of the projected track of the hurricane, the timeframe between forecast and projected landfall, the current plant operating configuration, and the timeframe for Operations to make the desired mode change. [Commitment – Step 2.3.3]

- _____/_____ a. **IF** the unit(s) are in Mode 1, 2 or 3 **AND** the storm is projected to reach a category 1 or 2, **THEN** a shutdown to Mode 3 (Hot Standby) shall be commenced at least 2 hours prior to the projected onset of the sustained hurricane force winds at the site. Both units shall remain off-line for the duration of the hurricane force winds (or restoration of reliable offsite power). Continued cooldown in accordance with Substep 5.3.7.4.b is also applicable.

Procedure No.:	Procedure Title:	Page:
0-EPIP-20106	Natural Emergencies	45
		Approval Date:
		5/30/01

Initials/Date

5.3.7.4 (Cont'd)

_____/_____

b. **IF** the unit(s) are in Mode 1, 2 or 3 **AND** the storm is projected to reach Category 3, 4, or 5 prior to landfall, **THEN** the units shall be shutdown, maintaining RCS temperature between 343°F and 350°F Tave. and steam generator pressure greater than 85 psig. RHR should be placed in service and AFW should be aligned and operable. These plant conditions shall be established at least two (2) hours before the projected onset of sustained hurricane force winds at the site and both units shall remain off-line for the duration of the hurricane force winds (or restoration of reliable offsite power).

_____/_____

c. **IF** the unit(s) are in Mode 4, 5 or defueled, **THEN** the Emergency Coordinator will determine the optimum configuration to maintain plant safety.

_____/_____

5. Perform a review of the EOOSL for equipment out of service for maintenance or testing to identify those whose redundancy is desired to support reliable plant operation during the storm, and ensure work is prioritized to promptly restore such equipment to an operable status. [Commitment – Step 2.3.3]

_____/_____

6. Review 0-OSP-200.1, Schedule of Plant Checks and Surveillances, and 0-ADM-215, Plant Surveillance Tracking Program, for Technical Specification surveillance requirements, and conduct all surveillances, if possible, that will come due during the storm. [Commitment - Step 2.3.3]

_____/_____

7. Determine if and when operator rounds on outside equipment are to be temporarily suspended during the storm, and document instructions in the Night Orders. [Commitment – Step 2.3.3]

NOTES

EDG's should be run for at least one hour at greater than 50 percent load.

_____/_____

8. Perform an operability run of each EDG using 3/4-OSP-023.1, Diesel Generator Operability Test, **AND** return the diesel generators to standby service at least 24 hours prior to projected onset of sustained hurricane force winds at the site. [Commitment – Step 2.3.3]

Procedure No.: 0-EPIP-20106	Procedure Title: Natural Emergencies	Page: 46
		Approval Date: 5/30/01

Initials/Date

5.3.7 (Cont'd)

- | | |
|---|--|
| <p>_____ / _____</p> <p>_____ / _____</p> <p>_____ / _____</p> <p>_____ / _____</p> <p>_____ / _____</p> <p>_____ / _____</p> <p>_____ / _____</p> <p>_____ / _____</p> <p>_____ / _____</p> <p>_____ / _____</p> <p>_____ / _____</p> <p>_____ / _____</p> <p>_____ / _____</p> <p>_____ / _____</p> <p>_____ / _____</p> <p>_____ / _____</p> <p>_____ / _____</p> <p>_____ / _____</p> | <p>9. Fill the following tanks: [Commitment – Step 2.3.3]</p> <p>a. Condensate Storage Tanks</p> <p>b. Raw Water Tanks</p> <p>c. Demineralized Water Storage Tank</p> <p>d. Primary Water Tanks</p> <p>e. Refueling Water Storage Tanks</p> <p>f. Circulating Water Pump Lube Water Storage Tank</p> <p>10. Verify battery chargers and applicable station vital batteries are operational using 0-OP-003.1, 125V VITAL DC SYSTEM. [Commitment – Step 2.3.3]</p> <p>11. Ensure that adequate inventories of nitrogen, and carbon dioxide are available to accommodate a unit shutdown and subsequent startup. [Commitment – Step 2.3.3]</p> <p>12. Review the following situations in the Simulator the shift before storm arrival, in preparation for a Station Blackout, loss of Instrument Air, loss of offsite power or loss of intake cooling water: [Commitment - Step 2.3.3]</p> <p>a. 3/4-ONOP-004, Loss of Offsite Power</p> <p>b. 0-ONOP-013, Loss of Instrument Air</p> <p>c. 3/4-ONOP-019, Intake Cooling Water Malfunction</p> <p>d. 3/4-ONOP-041.7, Shutdown LOCA [Mode 3 (less than 100 psig) or Mode 4]</p> <p>e. 3/4-ONOP-041.8, Shutdown LOCA [Mode 5 or 6]</p> <p>f. 3/4-ONOP-050, Loss of RHR</p> <p>13. Remind FPL System Operations of the importance of expeditiously reestablishing power to the site if a Loss of offsite Power or Station Blackout occurs. [Commitment – Step 2.3.3]</p> <p>14. Perform a test run of the Security diesel using 0-OP-026, CAT 400 OPERATION. [Commitment – Step 2.3.3]</p> <p>15. Make all permissible liquid and gaseous releases before the hurricane is within two hours of the plant to minimize waste water and waste gas inventories.</p> <p>16. Open redundant outdoor 480V receptacle circuit breakers using Enclosure 1, and issue a clearance to the NPS on all breakers opened.</p> |
|---|--|

Procedure No.: 0-EPIP-20106	Procedure Title: Natural Emergencies	Page: 47
		Approval Date: 5/30/01

Initials/Date 5.3.7 (Cont'd)

NOTES

- Fans may be operated on a selected basis as operating conditions dictate.
- Do not allow Maintenance to secure dampers on fans which may be needed.

- | | |
|---|---|
| <p>_____/_____</p> <p>_____/_____</p> <p>_____/_____</p> <p>_____/_____</p> <p>_____/_____</p> <p>_____/_____</p> <p>_____/_____</p> <p>_____/_____</p> <p>_____/_____</p> <p>_____/_____</p> | <p>17. Stop the vent fans listed below so the OSC Electrical Coordinator may lock close dampers and install protective covers:</p> <p>a. Spent Fuel Pit ventilation fan</p> <p>b. New Fuel Storage Room vent fan</p> <p>c. Spent Fuel Pit Heat Exchanger Room vent fan</p> <p>d. Containment purge supply and exhaust fans</p> <p>e. Auxiliary Building supply vent fans</p> <p>f. Containment penetration cooling fans, if not required</p> <p>g. Diesel Generator Room vent fans - verify in automatic</p> <p>18. Consult Engineering for additional preparation requirements for empty tanks (i.e., filling of tank) on a case by case basis and ensure tanks are vented to atmosphere where practicable.</p> <p>19. Ensure Ecolochem chemical tanks are secured and adequate inventories of chemicals (such as boric acid, ammonia, hydrazine) are available and staged in a secure area that will minimize exposure to high winds and water.</p> <p>20. <u>IF</u> personnel are relocated to areas containing Halon Systems, <u>THEN</u> perform the following steps:</p> <p>a. Coordinate with the OSC Electrical Coordinator and issue a clearance and Fire Impairment to the NPS to disable the applicable Halon Systems.</p> <p>b. Notify the Fire Protection Supervisor to issue required Fire Protection Impairments.</p> <p>21. Verify Unit 3 and Unit 4 cask washdown area drains are closed by having drain covers installed and bolted.</p> <p>22. Shut down Amertap Systems and tag open power supply breakers to all pumps and valves. Issue a clearance to the NPS.</p> |
|---|---|

Procedure No.:	Procedure Title:	Page:
0-EPIP-20106	Natural Emergencies	48
		Approval Date:
		5/30/01

Initials/Date

5.3.7 (Cont'd)

- | | |
|--|---|
| <p>_____/_____</p> <p>_____/_____</p> <p>_____/_____</p> <p>_____/_____</p> <p>_____/_____</p> <p>_____/_____</p> <p>_____/_____</p> <p>_____/_____</p> <p>_____/_____</p> <p>_____/_____</p> <p>_____/_____</p> <p>_____/_____</p> <p>_____/_____</p> <p>_____/_____</p> <p>_____/_____</p> | <p>23. IF applicable, THEN suspend all fuel movement AND place all refueling equipment in a safe condition.</p> <p>24. When the hurricane is less than 6 hours from the plant, arrange to have portable bedding brought to the Control Room and other suitable locations.</p> <p>25. Start all traveling screens at the approach of the storm.</p> <p>26. Ensure the CAT 400 Security Diesel is in standby using 0-OP-026, CAT 400 OPERATION, prior to the evacuation of CAS/SAS.</p> <p>27. Issue a clearance to the NPS on the Intake Gantry Crane, Cask Crane, and Turbine Gantry Crane to require post hurricane testing.</p> <p>28. Perform a test run of the diesel driven SSGFP using 0-OSP-074.3, STANDBY STEAM GENERATOR FEED PUMPS AVAILABILITY TEST.</p> <p>29. Perform a test run of the diesel driven fire pump using 0-OSP-016.23, DIESEL DRIVEN FIRE PUMP OPERABILITY TEST.</p> <p>30. Perform a test run of the diesel driven service water pump using 0-OSP-012.1, DIESEL DRIVEN SERVICE WATER PUMP OPERABILITY TEST.</p> <p>31. Perform a test run of the Diesel Instrument Air Compressors using 3/4-OP-013, INSTRUMENT AIR SYSTEM.</p> <p>32. Ensure nitrogen bottles for MSIVs, steam dump to atmosphere valves, and AFW flow control valves are filled and properly secured.</p> <p>33. The following guidelines should be considered for a Category 5 Hurricane Warning, and may be considered for lesser category hurricanes:</p> <p style="margin-left: 40px;">a. Assist the Emergency Coordinator in establishing a shift schedule for response personnel and preposition reliefs to preclude the need to move personnel during the storm.</p> <p style="margin-left: 40px;">b. Determine with the Emergency Coordinator and/or NPS, if any of the guidelines from Enclosure 3 and Enclosure 4 should be implemented.</p> <p>34. Annotated steps of this procedure and applicable plant procedures may be used to restore the plant to a normal configuration upon discontinuation of the emergency.</p> |
|--|---|

Procedure No.:	Procedure Title:	Page:
0-EPIP-20106	Natural Emergencies	49
		Approval Date:
		5/30/01

Initials/Date

5.3.8 TSC Chemistry Supervisor Responsibilities include the following:

- _____/_____ 1. Arrange to have the fuel oil storage tanks and day tanks for the Emergency Diesel Generators topped off.

NOTE

If the Unit 3 Diesel Oil Storage System is rendered inoperable by the storm, and operation of the emergency diesel generators is required for safe shutdown, an emergency supply of diesel fuel oil will be needed within 24 hours to refill the day tanks. The supply truck must contain a pump and a sufficient amount of hose to make the necessary connections to the remote fill lines.

- _____/_____ a. Make arrangements with the diesel oil suppliers for possible emergency deliveries.
- _____/_____ 2. **IF** required, **THEN** isolate acid and caustic sources when adequate inventories of acid and caustic are available. (Water Treatment Plant, Condensate Polishing Buildings)
- _____/_____ 3. **WHEN** the hurricane is less than 2 hours from the plant, **THEN** ensure the NPS has terminated all radioactive release permits.
- _____/_____ 4. Ensure Staffing Plans are in place to meet the positions specified in Attachment 1.
- _____/_____ 5. Perform the site facilities duties of Step 5.3.12.

5.3.9 TSC Health Physics Supervisor responsibilities include the following:

- _____/_____ 1. Instruct Health Physics personnel to inspect outside areas for radioactive materials that need to be stored inside or protected from severe weather.
- _____/_____ 2. Instruct Health Physics personnel to inspect the low level Radwaste Storage Warehouse and Radwaste Building and consider moving highly contaminated components stored at ground level to a higher elevation.

Procedure No.:	Procedure Title:	Page:
0-EPIP-20106	Natural Emergencies	50
		Approval Date:
		5/30/01

Initials/Date

5.3.9 (Cont'd)

_____/_____

3. Temporarily store all contaminated waste at the RCA Waste Segregation Building in a C-van and coordinate securing C-vans.

4. Temporarily store the G5 Tanker inside the Dry Storage Warehouse.

5. The following guidelines should be considered for a Category 5 Hurricane Warning, and may be considered for lesser category hurricanes:

_____/_____

a. Perform detailed surveys of the main passageways and establish suitable work areas if the TSC/OSC is relocated to the Auxiliary Building.

_____/_____

b. Locate sufficient HP supplies and equipment (including monitoring instrumentation) in the Auxiliary Building to support the emergency teams.

_____/_____

c. Temporarily relocate the RCA control point to the door between the New Electrical Equipment Room and the Auxiliary Building two hours prior to the approach of the storm and secure the normal entrances to the RCA.

_____/_____

6. Determine the need for batteries to support air sampling and acquire from Issues Warehouse as necessary.

_____/_____

7. Acquire the Health Physics instrumentation list for inventory tracking purposes.

_____/_____

8. Ensure radioactive waste processing and ventilation is terminated prior to and during the hurricane.

_____/_____

9. Collect radioactive sources from buildings not designed as Class 1 structures (Issues Warehouse, Florida City Substation, Nuclear Maintenance Building, etc.), and store them in the Auxiliary Building, or other suitable structures. (Special Nuclear Materials may remain in the warehouse based on location and size).

_____/_____

10. Distribute assigned dosimetry to personnel assigned to stay onsite during the hurricane.

_____/_____

11. Ensure survey instruments are staged in the sheltering locations.

_____/_____

12. Ensure Staffing Plans are in place to meet the positions specified in Attachment 1.

_____/_____

13. Ensure radiation posting signs outside are removed.

Procedure No.:	Procedure Title:	Page:
0-EPIP-20106	Natural Emergencies	51
		Approval Date:
		5/30/01

Initials/Date

5.3.9 (Cont'd)

_____/_____

14. Consider relocating TLDs to a more secure location.

_____/_____

15. Perform the site facilities duties of Step 5.3.12.

5.3.10 TSC Security Supervisor Responsibilities include the following:

_____/_____

1. Have security personnel observe filling sandbags so as not to delay their entering the plant.

_____/_____

2. Ensure that all visitors have been evacuated in an orderly manner from the Owner Controlled Area in accordance with 0-EPIP-20110, CRITERIA FOR AND CONDUCT OF OWNER CONTROLLED AREA EVACUATION.

_____/_____

3. Maintain an accurate list of personnel who are to remain on site and verify this list against a Security printout of personnel on site.

_____/_____

4. Coordinate the deployment of Security personnel during the severe weather.

_____/_____

5. Verify that the CAT 400 Security Diesel is in standby.

_____/_____

6. Prepare for the Suspension of Safeguards, as necessary.

_____/_____

7. Perform the site facilities duties of Step 5.3.12.

_____/_____

8. If safe to do so, have outside patrol make frequent checks of Palm Drive between the plant and SW 117th Avenue to ensure that roadway is open. Advise the NPS if the road is closed. When patrol must be suspended, bring the patrol vehicle inside the protected area.

_____/_____

9. Open FPL parking lot to all employees and make announcement over Plant Page encouraging employees to move their vehicles to the highest available parking area.

_____/_____

10. Upon notification of recovery process, the Fire Watch Shift Supervisor should:

_____/_____

a. Notify and call in needed personnel.

_____/_____

b. Conduct a tour of all posts.

_____/_____

c. Return to normal shift schedule and staffing.

Procedure No.: 0-EPIP-20106	Procedure Title: Natural Emergencies	Page: 52
		Approval Date: 5/30/01

Initials/Date

5.3.11 Fire Protection Supervisor Responsibilities include the following: |

- | | |
|---------------|---|
| _____ / _____ | 1. Fuel all fire protection equipment. |
| _____ / _____ | 2. Relieve personnel as directed. |
| _____ / _____ | 3. Conduct a tour of Fire Watch Posts and the Plant to ensure the following are performed: |
| _____ / _____ | a. Fire protection equipment storage areas are secured. |
| _____ / _____ | b. All fire hose cabinet doors are shut and secured. |
| _____ / _____ | c. All fire hose reels are secured from moving. |
| _____ / _____ | d. All local alarm panel doors are closed. |
| _____ / _____ | e. All compensatory hoses are tied down. |
| _____ / _____ | f. All portable fire extinguishers are properly secured or tied down. |
| _____ / _____ | 4. Ensure at least two crews of maintenance personnel are available onsite to support fire watch activities immediately following the hurricane. |
| _____ / _____ | 5. Document a review of the transient combustibles placed in the power block per 0-ADM-016.1, Transient Combustible and Flammable Substances Program. |
| _____ / _____ | 6. Ensure equipment for firefighting is gathered and in a secure location prior to onset of storm. |

5.3.12 Site Facilities Responsibilities:

- | | |
|---------------|---|
| _____ / _____ | 1. Responsibility for the site facilities are as follows: |
| _____ / _____ | a. Emergency Preparedness Coordinator: |
| _____ / _____ | (1) Central Receiving Facility |
| _____ / _____ | (2) Issues Warehouse |
| _____ / _____ | (3) Overflow Building |
| _____ / _____ | (4) Nuclear Processing Building |
| _____ / _____ | (5) Old I&C Building (with the exception of the TSC) |
| _____ / _____ | (6) Fab Shops/Trailers (as assigned) |
| _____ / _____ | b. OSC Mechanical Coordinator: |
| _____ / _____ | (1) Nuclear Administration Building |
| _____ / _____ | (2) Machine Shop Building |

Procedure No.:	Procedure Title:	Page:
0-EPIP-20106	Natural Emergencies	53
		Approval Date:
		9/28/01

Initials/Date

5.3.12.1 (Cont'd)

c. OSC Electrical Coordinator:

(1) Nuclear Maintenance Building

d. TSC Chemistry Supervisor:

(1) WTP Nuclear Chemistry/Chemical Storage

(2) Cold Chemistry Lab

e. TSC Health Physics Supervisor:

(1) RCA Control Point Building

(2) Dry Storage Warehouse

(3) Radwaste Building

(4) RCA Dressout Building

f. TSC Security Supervisor:

(1) Nuclear Entrance Building

(2) Main Truck Gate Entry Building

(3) Water Treatment Gate Entry Building

(4) Security Emergency Diesel Generator Enclosure

g. TSC Supervisor:

(1) Technical Support Center

h. TSC Technical Assistant to the Emergency Coordinator:

(1) Nuclear Training Building

i. NIS Supervisor:

(1) Critical Computer Applications and Data

Procedure No.: 0-EPIP-20106	Procedure Title: Natural Emergencies	Page: 54
		Approval Date: 9/28/01

Initials/Date

5.3.12 (Cont'd)

_____/_____

2. Ensure that the following steps are taken to secure the facility prior to evacuation:

NOTE

The individuals responsible for these actions are listed in Substep 5.3.12.1.

_____/_____

- a. Verify high value items are stored off the ground floor and away from windows:

_____/_____

- (1) Computers and peripherals

_____/_____

- (2) Laboratory equipment

_____/_____

- (3) Instruments

_____/_____

- (4) Photocopying equipment

_____/_____

- (5) Communications equipment

_____/_____

- b. Verify that plant documents are stored off of the ground floor and away from windows:

_____/_____

- (1) Plant procedures

_____/_____

- (2) Engineering drawings

_____/_____

- (3) Quality Assurance records

_____/_____

- (4) Personnel records

_____/_____

- (5) Procurement documentation

_____/_____

- (6) Contracts, invoices, budget information

_____/_____

- (7) Maintenance documents

_____/_____

- (8) FSAR, Tech Specs, Vendor Manuals

_____/_____

- c. Verify that sandbags required per Substep 5.3.5.1 have been or are being installed satisfactory.

_____/_____

- d. Ensure critical computer applications and data are backed up, replicated or duplicated in a secure location.

Procedure No.:	Procedure Title:	Page:
0-EPIP-20106	Natural Emergencies	55
		Approval Date:
		5/30/01

Initials/Date

5.3.12.2 (Cont'd)

_____/_____
_____/_____
_____/_____
_____/_____
_____/_____
_____/_____

- d. Nonessential equipment is deenergized.
- e. Windows and glass doors are boarded over, as time permits.
- f. Window blinds are closed.
- g. Doors to rooms having windows are closed.
- h. Outside doors are shut securely. (Issues Warehouse doors may need to be reinforced if time allows)
- i. Grounds around the facility are free of potential hazards.

5.4 Earthquake

5.4.1 When information is received that an earthquake has occurred, the Emergency Coordinator should perform the following:

NOTES

- The Seismic Recorder is located in the Unit 3 South Electrical Penetration Room approximately 4 feet below 18' elevation deck plates.
- I&C personnel should reference 0-PMI-103.1, Seismograph Quarterly Functional Check and Tri-Annual Battery Replacement, for developing film from the Seismic Recorder.
- The Seismograph can detect if an earthquake has occurred and the severity of the event. When determining severity, the Recorder's film must be developed. The film can determine if the Seismic Design Basis was exceeded and if the plant may continue safe operation.

_____/_____
_____/_____
_____/_____
_____/_____

1. Notify I&C Department to develop film from the Seismic Recorder.
2. Have I&C forward developed film to Engineering to evaluate seismic event against the seismic design basis.
3. Perform plant walkdowns/inspections to determine any detrimental effects from the event.
4. Implement the Emergency Plan as necessary in accordance with 0-EPIP-20101, DUTIES OF EMERGENCY COORDINATOR.

Procedure No.:	Procedure Title:	Page:
0-EPIP-20106	Natural Emergencies	56
		Approval Date:
		5/30/01

Initials/Date

NOTE

The effects of earthquake shock waves can create relay chatter which can result in alarms and equipment out of service due to relay actuation. Mercury level switches also exhibit momentary earthquake shock wave actuations and can create false level alarms (high or low).

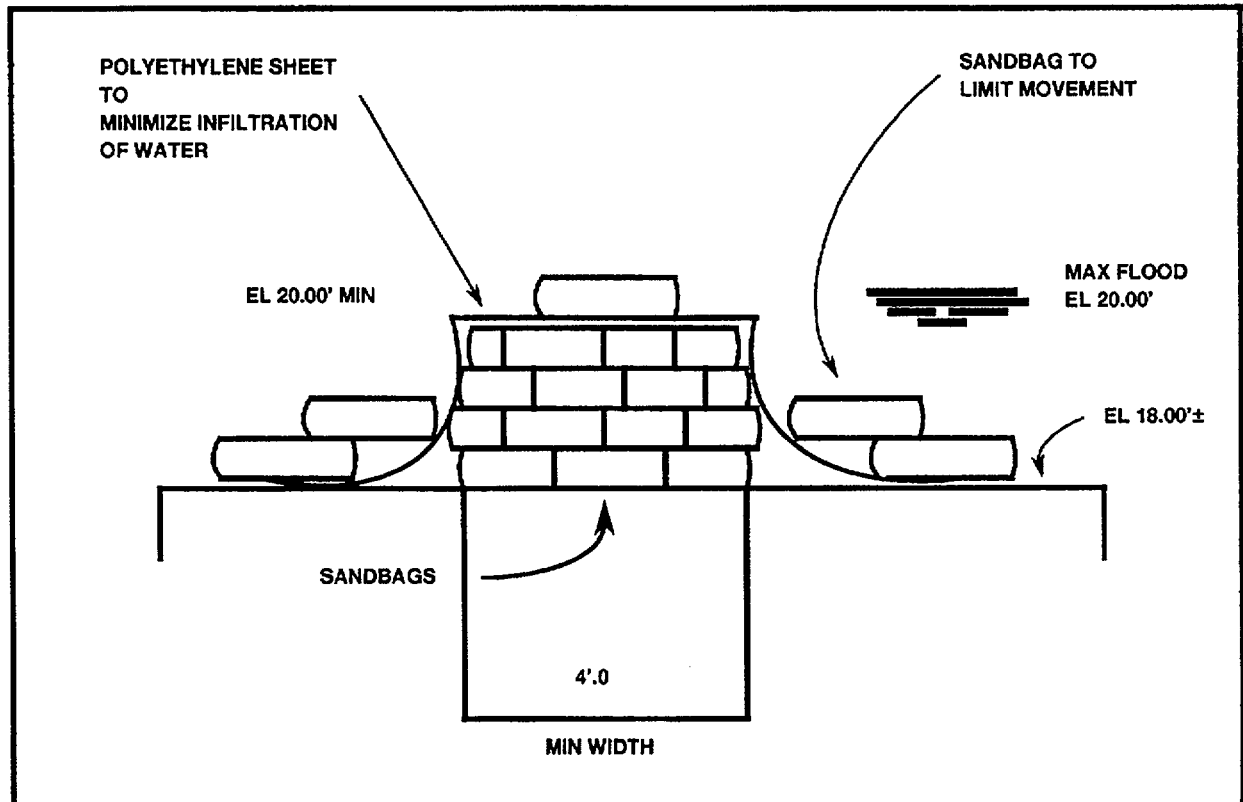
_____/____ 5.4.2 Use the sequence of events recorders to identify relay chatter events and level switch related problems. Resetting of the relays may have been automatic or may require manual resetting if the relay has a lockout feature.

END OF TEXT

Procedure No.:	Procedure Title:	Page:
0-EPIP-20106	Natural Emergencies	57
		Approval Date:
		5/30/01

FIGURE 1
(Page 1 of 1)

DETAILS FOR FLOOD PROTECTION DIKE



Side View of Typical Sandbag Dike

NOTES:

1. The location of dikes placed along walls shall be chosen to limit obstructions with the mounted items to walls. Care shall be used when placing dikes to insure equipment/components are not obstructed.
2. Polyethylene sheets should have a minimum thickness of 4 mils.
3. Sandbag size and placement should be determined by field personnel based on availability and positioned to provide dike dimensions similar to those shown above.
4. Position sandbags used to protect doors on the side of the door that will allow opening the door and maintaining access.

Procedure No.:	Procedure Title:	Page:
0-EPIP-20106	Natural Emergencies	58
		Approval Date:
		5/30/01

ENCLOSURE 1

(Page 1 of 2)

480 VOLT RECEPTACLE LIST

NOTE

The following breakers are to be verified tagged and opened per Substep 5.3.7.17 of this procedure. The TSC Operations Manager has responsibility to ensure this is completed.

<u>BREAKER NO.</u>	<u>RECEPTACLE NO./LOCATION</u>
30653	17 and 17A, Unit 3 Containment
30661	5, West End, Aux. Building East-West Passageway
30674	6, 6A and 6B East End and Exterior East Wall of Aux. Bldg
30736	7, North End, Aux. Building North-South Passageway
30905	11 and 12, North End of Intake Area
30760	8, Unit 3 Cask Wash Area (See Footnote 1)
34341	Unit 3 Condensate Polisher Area Receptacles
40653	17 and 17A, Unit 4 Containment
40903	15 and 16, Intake Area (at Traveling Screens)
44341	Unit 4 Condensate Polisher Area Receptacles
0870	9, South End of Aux. Building North-South Passageway
0871	10, Unit 4 Cask Wash Area (See Footnote 1)
1023	13, Water Treatment Plant Area
B1605	01 and 02 Radwaste Control Area, West Wall
B1704	03, Radwaste North-South Passageway, North End
B2028	Radwaste North-South Passageway, South End and Outside Receptacles

Procedure No.:	Procedure Title:	Page:
0-EPIP-20106	Natural Emergencies	59
		Approval Date:
		5/30/01

ENCLOSURE 1

(Page 2 of 2)

480 VOLT RECEPTACLE LIST

<u>BREAKER NO.</u>	<u>RECEPTACLE NO./LOCATION</u>
Panel 3P14, Bkr 1	Two Receptacles Outside North Wall and Two Outside East Wall of No. 3 4160 Switchgear Room
Panel 3P14, Bkr 2	One receptacle at Southeast Corner No. 3 Auxiliary Transformer
Panel 3P14, Bkr 3	One Receptacle at No. 3 Bowser Filter One Receptacle West of 3A MSRH One Receptacle at Southwest Corner of Condensate Retubing Pit, Ground Level (See Footnote 2)
Panel 3P14, Bkr 4	One Receptacle in Auxiliary Feedwater Pump Area One Receptacle East of 3D MSRH
Panel 3P14, Bkr 5	One Receptacle, Turbine Deck, West Side Between Units 3 & 4 One Receptacle Under South End of Steam Platform
Panel 3P14, Bkr 6	One Receptacle on Mezzanine Level at Panel 3P14 One Receptacle at Northeast Corner of Turbine Deck
Panel 3P14, Bkr 7	One Receptacle at Northwest Corner of Turbine Deck
Panel 4P14, Bkr 1	One Receptacle at East Wall No. 4 4160 Room
Panel 4P14, Bkr 2	One Receptacle at Southeast Corner No. 4 Auxiliary Transformer
Panel 4P14, Bkr 3	One Receptacle at South Side of Condensate Retubing Pit, Ground Level One Receptacle East of Bowser Filter One Receptacle West of 4A MSRH
Panel 4P14, Bkr 4	One Receptacle East of 4D MSRH One Receptacle East of No. 4 SGFW Pump Room
Panel 4P14, Bkr 5	One Receptacle at Southwest Corner of Turbine Deck One Receptacle Under South Edge of Steam Platform
Panel 4P14, Bkr 6	One Receptacle on Mezzanine Level at Panel 4P14 One Receptacle on Turbine Deck, South of Control Room Door
DP10-5	Fan Room Area Receptacles
DP10-6	Fan Room Area Receptacles and DP441

Footnote 1: Power Supply to Emergency Spent Fuel Pit Cooling Water Pumps

Footnote 2: Power Supply to Lube Oil Reservoir Oil Renovators (DeLaval)

Procedure No.:	Procedure Title:	Page:
0-EPIP-20106	Natural Emergencies	60
		Approval Date:
		5/30/01

ENCLOSURE 2
(Page 1 of 8)

DRAIN PLUGS LOCATIONS AND INSTALLATION

NOTE

If a drain plug cannot be properly installed in a drain, install a sandbag dike at least two feet high around the drain.

UNIT 4

DRAIN ID	SIZE	DESCRIPTION	LOCATION	NOTES
3	2"	Equipment Drain	On the east side of the Unit 4 Instrument Air Receiver	Loosen threaded drain pipe and loosen clamp on half-inch drain pipe
5	4"	Floor Drain	West of 4B Heater Drain Pump	Cut off the TPCW drain; unthread and remove the Heater Drain Pump drain pipe
6	4"	Hub Drain	East of 4S Instrument Air Compressor	Cut Instrument Air drains; relocate small drain tube
9	4"	Floor Drain	East of CV-4-1515 (by FI-4-5120)	
11	4"	Hub Drain	Under 4-30-788 (South of 4A RHDT)	Inflatable plug
12	4"	Floor Drain	Under B Breathing Air Compressor	Inflatable plug
13	4"	Hub Drain	South side of 4B RHDT	
14	4"	Floor Drain	By CV-4-1504	
16	4"	Floor Drain	West of Unit 4 Silica Analyzer cabinet	
18	4"	Floor Drain	By column J-35 in the walkway outside of the Unit 4 SGFW Pump Room	
19	4"	Hub Drain	Under valve 4-60-212 (CV-4-2203 bypass valve)	
20	4"	Floor Drain	South of Unit 4 Generator Hydrogen Gas Dryer	

Procedure No.:	Procedure Title:	Page:
0-EPIP-20106	Natural Emergencies	61
		Approval Date:
		5/30/01

ENCLOSURE 2

(Page 2 of 8)

DRAIN PLUGS LOCATIONS AND INSTALLATION

DRAIN ID	SIZE	DESCRIPTION	LOCATION	NOTES
21	4"	Hub Drain	South of 4A MCC by the corner of the wall	
22	4"	Floor Drain	North of 4A Isophase Bus Fan	
77	3"	Floor Drain	Unit 4 Bowser Lube Oil Conditioner under Valve 4-40-020 in the southeast corner	
78	3"	Floor Drain	Unit 4 Bowser Lube Oil Conditioner on the north side of the conditioner under FG-4-3401	
79	3"	Hub Drain	Unit 4 Bowser Lube Oil Conditioner to the east of the Unit 4 Lube Oil Transfer Pump	
80	3"	Hub Drain	Outside the northeast corner of the Unit 4 Bowser Lube Oil Conditioner pit	Cut drain line
83	3"	Floor Drain	In the Unit 4 SGFW Pump Room on the south end between the motors	
84	3"	Equipment Drain	Just North of 4A SGFW Pump	Unthreaded drain pipe; use inflatable plug
85	3"	Floor Drain	In the Unit 4 SGFW Pump Room just west of valve 4-20-218 (4B SGFW Pump discharge check valve) under the deck plate	
86	2"	Equipment Drain	Just north of 4B SGFW Pump	Unthreaded drain pipe; use inflatable plug
87	2"	Equipment drain	In the southwest corner of the Unit 4 Generator Seal Oil Pit	Loosen clamps to move drain pipe; use inflatable plug.
88	3"	Floor Drain	In the northwest corner of the Unit 4 Auxiliary Transformer Pit	
89	3"	Floor Drain	Just north of the Unit 4 Auxiliary Transformer Pit	
114	2"	Equipment Drain	Between the 4A and 4B Heater Drain Pumps on the west side of the foundation	
115	4"	Floor Drain	To the northeast of the Unit 4 Generator Hydrogen Alarm Panel	
116	4"	Floor Drain	East of the Unit 4 Generator Seal Oil enclosure	
117	4"	Floor Drain	East of the Unit 4 Auxiliary Transformer Pit	

Procedure No.:	Procedure Title:	Page:
0-EPIP-20106	Natural Emergencies	62
		Approval Date:
		5/30/01

ENCLOSURE 2
(Page 3 of 8)

DRAIN PLUGS LOCATIONS AND INSTALLATION

UNIT 3

DRAIN ID	SIZE	DESCRIPTION	LOCATION	NOTES
23	4"	Equipment Drain	Below Instrument Air Alarm Panel	Cut drain pipes or loosen clamps; turn threaded drains out of the way; inflatable plug needed
24	4"	Floor Drain	By valve 3-50-562 (3B HDP suction valve)	
25	2"	Equipment Drain	On the northeast corner of the Unit 3 Instrument Air Dryer	Loosen clamp and move threaded drain out of the way; inflatable plug needed
26	2"	Equipment Drain	On the west side of the U3 Heater Drain Pump Foundation	Move threaded drains out of the way
27	4"	Floor Drain	East of CV-3-1515	
29	4"	Hub Drain	Under Valve 3-30-788 (South of 3A RHDT)	Inflatable plug
30	4"	Floor Drain	West of the Chemical Addition pumps	
32	2"	Hub Drain	East of Chemical Addition Tanks	
33	2"	Hub Drain	East of Chemical Addition Tanks	
34	4"	Hub Drain	South of 3B RHDT	
35	4"	Floor Drain	By CV-3-1504	
38	4"	Floor Drain	Outside the entrance to 4B 4160 Volt Switchgear Room	
40	4"	Floor Drain	In the Walkway by Fire Locker Number 1	
41	4"	Floor Drain	West of C AFW Pump in the Walkway	
44	2"	Equipment Drain	At the south end of the Unit 4 Gland Steam Condenser	Loosen clamp and move drain pipe
45	4"	Floor Drain	By the Unit 3 Generator Hydrogen Alarm Panel	
46	4"	Hub Drain	Behind Valve 3-60-212 (CV-3-2203 Bypass Valve)	
47	4"	Floor Drain	South of the Unit 3 Generator Hydrogen Gas Dryer	
118	4"	Floor Drain	East of the Unit 3 Generator Seal Oil enclosure	
119	4"	Floor Drain	East of the Unit 3 Auxiliary Transformer pit	

Procedure No.:	Procedure Title:	Page:
0-EPIP-20106	Natural Emergencies	63
		Approval Date:
		5/30/01

ENCLOSURE 2
(Page 4 of 8)

DRAIN PLUGS LOCATIONS AND INSTALLATION

DRAIN ID	SIZE	DESCRIPTION	LOCATION	NOTES
48	4"	Floor Drain	North of the 3A Isophase Bus Fan	
49	4"	Hub Drain	South of the 3A MCC Non-vital side	
52	4"	Floor Drain	Outside the entrance to 3A 4160 Volt Switchgear Room	
90	3"	Hub Drain	In the southeast corner of the Unit 3 Bowser Lube Oil Conditioner Pit under Valve 3-40-025.	Inflatable plug
91	3"	Floor Drain	In the Unit 3 Bowser Lube Oil Conditioner Pit just north of the conditioner under FG-3-3401	
92	3"	Hub Drain	In the Unit 3 Bowser Lube Oil Conditioner Pit just east of the Unit 3 Lube Oil Transfer Pump	
93	3"	Hub Drain	In the northeast corner of the Unit 3 Bowser Lube Oil Conditioner Pit	Cut Pipe
96	3"	Floor Drain	In the Unit 3 SGFW Pump Room on the south end between the motors	
97	3"	Equipment Drain	Just north of 3A SGFW Pump	Loosen unions and threaded drain pipe if required; use inflatable plug.
98	3"	Floor Drain	In the Unit 3 SGFW Pump Room just west of Valve 3-20-218 (3B SGFW Pump discharge check valve) under the deck grating	
99	2"	Equipment Drain	Just north of 3B SGFW Pump	Loosen unions to move drain pipe out of the way.
101	3"	Floor Drain	In the northwest corner of the Unit 3 Auxiliary Transformer Pit	
102	3"	Floor Drain	Just north of the Unit 4 Auxiliary Transformer Pit	
103	2"	Hub Drain	In the 3A EDG Room under C air receiver	Move threaded drains out of the way; use inflatable plug.
106	2"	Hub Drain	In the 3B EDG Room under C air receiver	Inflatable plug
107	3"	Floor Drain	In the 3B EDG Room just east of the electrical control room	

Procedure No.:	Procedure Title:	Page:
0-EPIP-20106	Natural Emergencies	64
		Approval Date:
		5/30/01

ENCLOSURE 2
(Page 5 of 8)

DRAIN PLUGS LOCATIONS AND INSTALLATION

DRAIN ID	SIZE	DESCRIPTION	LOCATION	NOTES
108	4"	Floor Drain	In the 3A EDG Room just east of the Electrical Control Panel	
110	2"	Hub Drain	In the 3B EDG Radiator Room on the southeast side of the radiator	
111	4"	Floor Drain	In the 3B EDG Room under the air dryer skid	
112	4"	Floor Drain	In the 3A EDG Room under the air dryer skid	
RCA				
NNA	2"	Floodwell Drain	Unit 3 CCW Pipe Trench	Plug 2" drain line in bottom of trench Floodwell. Drain line is north of centerline in Floodwell. Coordinate removing deckplates with Mechanical Maintenance or Projects Department. Contact Health Physics prior to entering the trench.
NNA	2"	Floodwell Drain	Unit 4 CCW Pipe Trench	Plug 2" drain line in bottom of trench Floodwell. Drain line is south of centerline in Floodwell. Coordinate removing deckplates with Mechanical Maintenance or Projects Department. Contact Health Physics prior to entering the trench.
NNA	8"	Catch Basin #15 Outlet Pipe	West of Unit 4 West Electrical Penetration Room near Column Line K-33.9	Plug 8" Outlet Pipe in Catch Basin.

Procedure No.:	Procedure Title:	Page:
0-EPIP-20106	Natural Emergencies	65
		Approval Date:
		5/30/01

ENCLOSURE 2
(Page 6 of 8)

DRAIN PLUGS LOCATIONS AND INSTALLATION

DRAIN ID	SIZE	DESCRIPTION	LOCATION	NOTES
63	8"	Outlet pipe of Catch Basin 15	In the RCA, West of the Unit 4 West Electrical Penetration Room	Install temporary pump in the catch basin with discharge routed to outside the Flood Protection Barrier concurrent with plug installation
68	4"	Floor Drain	North end of Unit 3 CCW Room in the Valve Pit	
69	4"	Floor Drain	By the North Pedestal of 3B CCW Heat Exchanger	
70	4"	Floor Drain	Just south of 3B CCW Heat Exchanger	
71	4"	Floor Drain	Unit 3 CCW Room by 3B CCW Pump	
72	4"	Floor Drain	Unit 4 CCW Room just east of the Aux Building Doors	
73	4"	Floor Drain	Unit 4 CCW Room in the Pump Area	
74	4"	Floor Drain	Unit 4 CCW Room just North of 4B CCW Heat Exchanger	
75	4"	Floor Drain	By the South Pedestal of 4B CCW Heat Exchanger	
76	4"	Floor Drain	South end of Unit 4 CCW Room in the valve pit	
<u>UNIT-4 EDG AREA</u>				
NNA	12"	Manhole #3B Inlet Pipe	West of the New Unit 4 EDG Building	Buried Plug inlet pipe on west side of the manhole.
N/A	4"	4A EDG Radiator berm drain	Horizontal drain south wall outside 4A EDG radiator	
N/A	4"	4A EDG Radiator berm drain	Horizontal drain south wall outside 4A EDG radiator	
N/A	4"	4B EDG Radiator berm drain	Horizontal drain south wall outside 4B EDG radiator	
N/A	4"	4B EDG Radiator berm drain	Horizontal drain south wall outside 4B EDG radiator	

ENCLOSURE 2
(Page 7 of 8)

DRAIN PLUGS LOCATIONS AND INSTALLATION

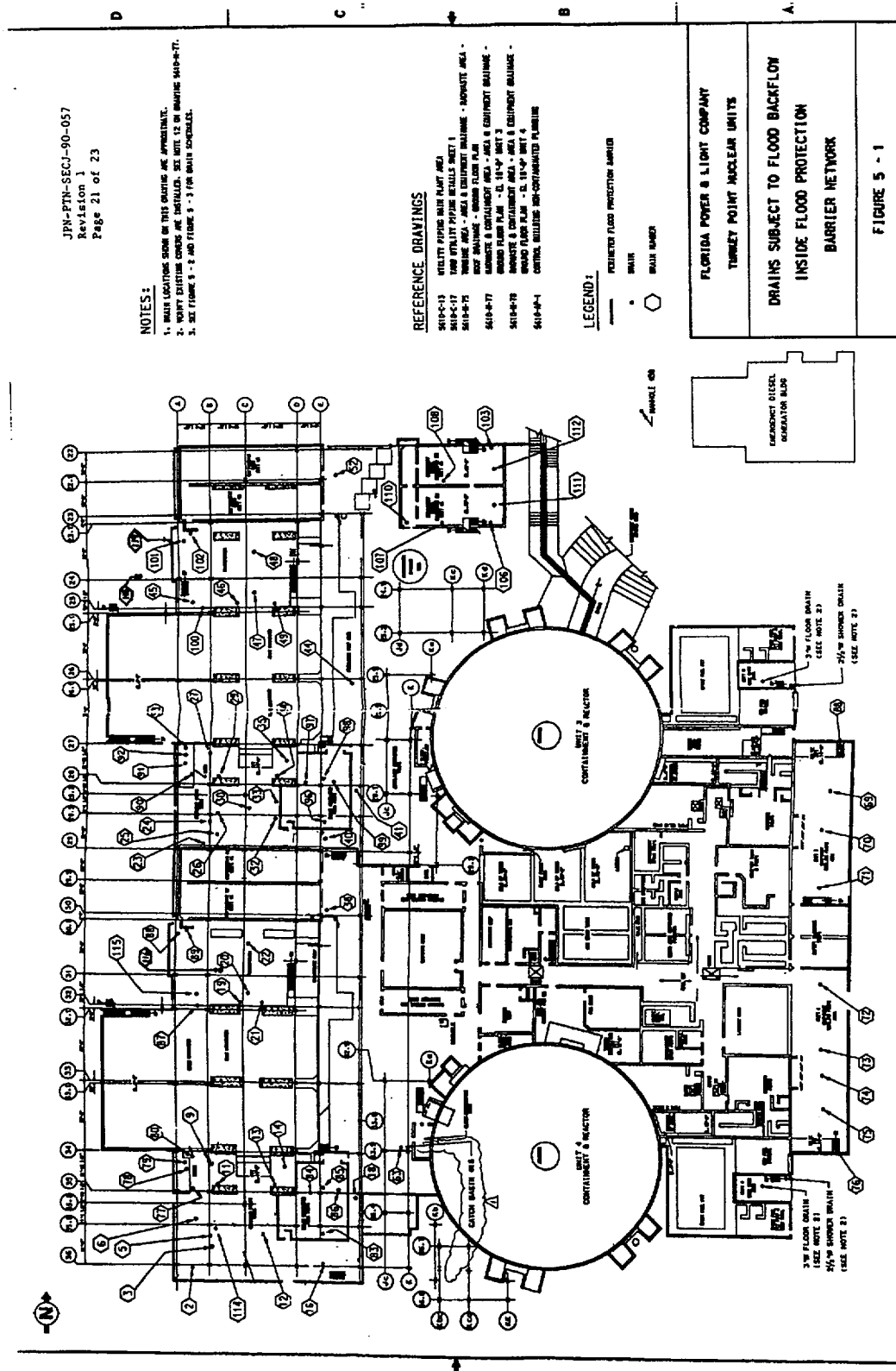


FIGURE 5 - 1

FLORIDA POWER & LIGHT COMPANY

TURKEY POINT NUCLEAR UNITS

DRAINS SUBJECT TO FLOOD BACKFLOW
INSIDE FLOOD PROTECTION
BARRIER NETWORK

Procedure No.:	Procedure Title:	Page: 67
0-EPIP-20106	Natural Emergencies	Approval Date 5/30/01

ENCLOSURE 2 (Page 8 of 8)

DRAIN PLUGS LOCATIONS AND INSTALLATION

FIGURE 1
DETAIL FOR PLUGGING FLOOR DRAINS

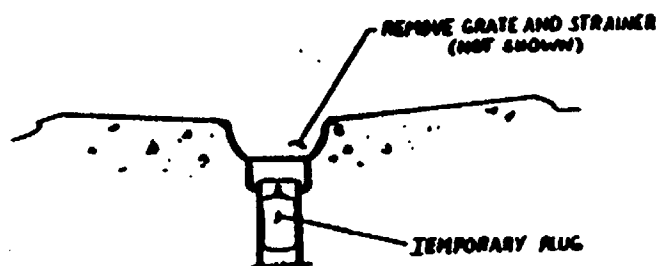


FIGURE 2
DETAIL FOR PLUGGING HUB DRAINS
AND EQUIPMENT DRAINS

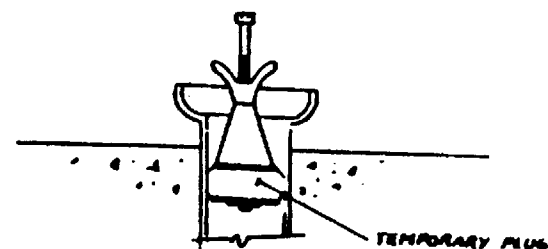


FIGURE 3
DETAIL FOR PLUGGING CATCH BASIN
OR MANHOLE DRAIN PIPE

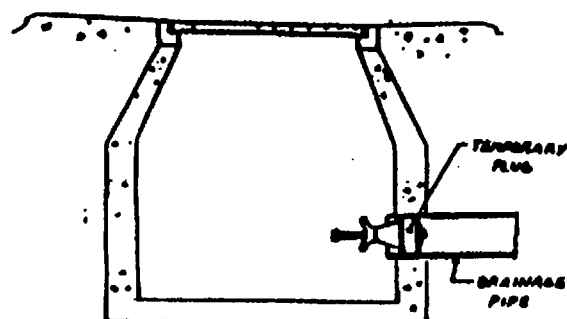
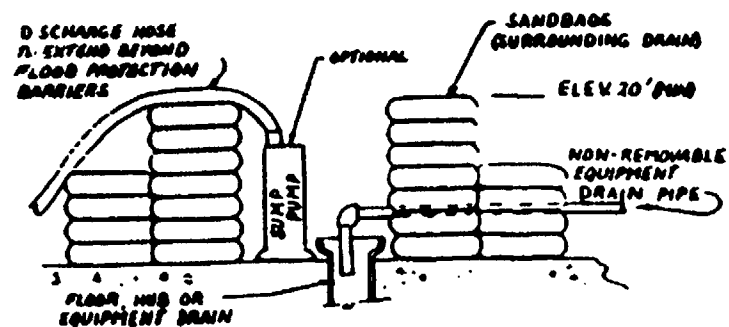


FIGURE 4
DETAILS FOR FLOOD PROTECTION
IN WHICH
DRAIN CANNOT BE PLUGGED



Procedure No.:	Procedure Title:	Page:
0-EPIP-20106	Natural Emergencies	68
		Approval Date:
		5/30/01

ENCLOSURE 3
(Page 1 of 15)

**OPERATIONS GUIDELINES FOR CATEGORY 5 HURRICANE
WITH SIGNIFICANT FLOODING**

1.0 DISCUSSION

- 1.1 This enclosure provides guidelines for Plant Operations before, during, and after a Category 5 hurricane with significant flooding outside of the design basis. The degree to which these guidelines are used is per NPS discretion after consultation with the Emergency Coordinator.
- 1.2 The guidelines address plant damage - particularly from flooding - outside of the plant design basis. The focus is on personnel safety and maintaining the RCS below 350°F to minimize RCP seal degradation. The following core cooling contingencies are addressed for the units initially in Mode 5:
 - 1.2.1 RHR Loops
 - 1.2.2 AFW Train 2
 - 1.2.3 AFW Train 1 (pre-throttled)
 - 1.2.4 Bleed and Feed
- 1.3 In addition, measures are presented for maintaining essential equipment and instrumentation and safely deploying personnel at remote stations.

2.0 PREPARATION

2.1 Modes 1-4

- 2.1.1 Shutdown/cooldown to approximately 300°F in accordance with *-GOP-103, Power Operation to Hot Standby/*-GOP-305 Hot Standby to Cold Shutdown:
 1. Do not open the main generator disconnects in the switchyard; do open the main generator links in case backfeed is required later.
 2. Purge the generator with carbon dioxide; shutdown seal oil and lube oil systems.
 3. Isolate steam generator blowdown.
 4. Maintain steam generators at approximately 70 percent narrow range level.

ENCLOSURE 3

(Page 2 of 15)

**OPERATIONS GUIDELINES FOR CATEGORY 5 HURRICANE
WITH SIGNIFICANT FLOODING****NOTE**

The following evolution throttles auxiliary feedwater and steam flows under natural circulation conditions with the RCS at approximately 300°F. The purpose is to prepare for a beyond-design scenario where neither RHR cooling nor AFW flow control valve operation are possible. The objective is to throttle flows to maintain RCS temperature and steam generator levels at near-equilibrium.

- 2.1.2 Throttle steam flow and AFW train 1 flow for natural circulation conditions with the RCS at approximately 300°F. If both units were initially in Modes 1-4, coordinate between units to perform this evolution simultaneously:
1. Place AFW train 1 flow control valves in manual with zero demand.
 2. Start AFP "A" in accordance with *-OP-075, Auxiliary Feedwater System.
 3. Open all MSIV Bypass MOVs.
 4. Open *-043 and *-044, hogger jet ejector main steam isolation valves.
 5. Stop all running NCC and CRDM fans.
 6. Stop all running RHR pumps and RCPs for up to one hour per Tech Spec 3.4.1.3.
 7. Verify natural circulation:
 - a. RCS subcooling based on core exit TCs - Greater than 30°F
 - b. S/G pressures - Stable or Decreasing
 - c. RCS hot leg temperatures - Stable or Decreasing
 - d. Core exit TCs - Stable or Decreasing
 - e. RCS cold leg temperatures - Within 35°F of saturation temperature for S/G Pressure.

Procedure No.:	Procedure Title:	Page:
0-EPIP-20106	Natural Emergencies	70
		Approval Date:
		5/30/01

ENCLOSURE 3
(Page 3 of 15)

**OPERATIONS GUIDELINES FOR CATEGORY 5 HURRICANE
WITH SIGNIFICANT FLOODING**

2.1.2 (Cont'd)

8. Make the following adjustments until steam generator levels and RCS average temperature are as close as possible to equilibrium.
 - a. Close the steam dump to atmosphere valves.
 - b. Throttle open *-072, hogger jet ejector main steam isolation valve. If needed, add other dummy steam loads (such as water box air ejectors or steam trap drains) to allow throttling of *-072.
 - c. Take local control of CV-*-2816, CV-*-2817, and CV-*-2818, AFW train 1 flow control valves, and throttle them open while closing the main feedwater bypass valves.
 - d. Continue Steps b and c until steam generator levels are maintained at approximately 70 percent and RCS average temperature is maintained at approximately 300°F with steam dump to atmosphere valves and main feedwater bypass valves closed.
 - e. Lock the train 1 AFW flow control valves in the throttled position.
9. Stop AFP "A" in accordance with *-OP-075, Auxiliary Feedwater System, and maintain steam generator levels with the main feedwater bypass valves.
10. Return AFW to standby in accordance with *-OP-075, Auxiliary Feedwater System, leaving the train 1 AFW flow control valves locked in the throttled position.
11. Start desired RHR pump.
12. Start desired NCC and CRDM fans.

Procedure No.:	Procedure Title:	Page:
0-EPIP-20106	Natural Emergencies	71
		Approval Date:
		5/30/01

ENCLOSURE 3
(Page 4 of 15)

**OPERATIONS GUIDELINES FOR CATEGORY 5 HURRICANE
WITH SIGNIFICANT FLOODING**

2.1.3 Continue plant cooldown to Mode 5 in accordance with *GOP-305, Hot Standby to Cold Shutdown:

1. Fill the pressurizer to 90 percent narrow range level.

CAUTIONS

- *Do not make up to the RCS during the cooldown (except to compensate for known leakage) or an overfill situation may result upon plant heat up.*
- *Maintain pressurizer temperature as high as possible above RCS temperature without challenging the OMS set point or exceeding a 320 °F differential.*

2. Cooldown on RHR until pressurizer level drops to 22 percent.

3. Maintain the plant on RHR in Mode 5; do not heat up.

2.1.4 See Subsection 2.4, Prepare Equipment and Station Personnel on Each Unit, for further preparatory guidelines.

Procedure No.:	Procedure Title:	Page:
0-EPIP-20106	Natural Emergencies	72
		Approval Date:
		5/30/01

ENCLOSURE 3
(Page 5 of 15)

**OPERATIONS GUIDELINES FOR CATEGORY 5 HURRICANE
WITH SIGNIFICANT FLOODING**

2.2 Mode 5

2.2.1 **IF** the RCS is NOT filled and vented, **THEN** perform the following:

CAUTION

Drain down condition with steam generators unavailable and RCS integrity breached is the most dangerous plant configuration during the storm. The following actions should begin early and be given high priority:

1. Commence immediate action to restore steam generator operability (replace man ways, etc.).
2. Simultaneously commence action to restore RCS integrity (if breached)
3. When RCS integrity is achieved, commence fill and vent per *-OP-041.8, Filling and Venting the Reactor Coolant System.

2.2.2 **IF** the RCS is filled and vented, **THEN** perform the following:

1. Establish containment integrity as soon as possible.
2. Maintain RCS temperature as low as possible.
3. Draw a pressurizer bubble per *-OP-041.2, Pressurizer Operation.
4. Maintain pressurizer temperature as high as possible above RCS temperature without challenging the OMS set point or exceeding a 320°F differential.
5. Secure steam generators from wet lay up, if applicable.
6. Maintain steam generators at approximately 70 percent narrow range level.
7. Line up AFW and place it in standby per *-OP-075, Auxiliary Feedwater System.
8. See Subsection 2.4, Prepare Equipment and Station Personnel On Each Unit, for further preparatory guidelines.

Procedure No.:	Procedure Title:	Page:
0-EPIP-20106	Natural Emergencies	73
		Approval Date:
		5/30/01

ENCLOSURE 3
(Page 6 of 15)

**OPERATIONS GUIDELINES FOR CATEGORY 5 HURRICANE
WITH SIGNIFICANT FLOODING**

2.3 Mode 6

2.3.1 **IF** the reactor is **NOT** defueled, **THEN** perform the following:

1. Terminate all fuel transfer operations and secure fuel transfer equipment.
2. Transfer the conveyor cart to the spent fuel pit.
3. Close the tube gate valve.
4. Establish containment integrity.
5. Maintain RCS temperature as low as possible.
6. Fill the cavity to normal band.
7. Select further preparatory actions as applicable from Subsection 2.4, Prepare Equipment and Station Personnel On Each Unit.

2.3.2 **IF** the reactor is defueled, **THEN** perform the following:

1. Maintain the spent fuel pit temperature as low as possible.
2. Verify the spent fuel pit level is in the normal band.
3. Verify the transfer canal is filled (at least on the spent fuel pit side) with the transfer tube gate valve closed.
4. Select further preparatory actions as applicable from Subsection 2.4, Prepare Equipment and Station Personnel On Each Unit.

Procedure No.:	Procedure Title:	Page:
0-EPIP-20106	Natural Emergencies	74
		Approval Date:
		5/30/01

ENCLOSURE 3
(Page 7 of 15)

**OPERATIONS GUIDELINES FOR CATEGORY 5 HURRICANE
WITH SIGNIFICANT FLOODING**

2.4 Prepare Equipment and Station Personnel On Each Unit:

- 2.4.1 Determine whether splitting the CCW headers is necessary to minimize missile vulnerability of exposed piping and/or splitting CCW to the Safety Injection Pumps so that each unit supplies its own Safety Injection Pumps.
- 2.4.2 Observing *-OP-30, Component Cooling Water System, precautions, isolate CCW to selected non-essential deenergized equipment.
- 2.4.3 Isolate containment to the extent practical.
- 2.4.4 Verify the spent fuel pit level and temperature are satisfactory.
- 2.4.5 Test the Diesel Driven Fire Pump in accordance with 0-OSP-012.1, Diesel Driven Service Water Pump Operability Test.
- 2.4.6 To allow pressurizer backup heater operation, place the keylock switch on the back of 3D/4D load center in bypass and reset the lockout relay in the appropriate electrical penetration room.
- 2.4.7 Personnel should be positioned at the following remote stations to perform local actions:
 - 1. Auxiliary Building (if tenable)-1 SRCO/SRO, 4 SNPO/NO
 - 2. Each unit's 480V Vital Load Center Room (also includes 4kv rooms)-1 SRCO/SRO, 2 SNPO/NPO/TO's
 - 3. Unit 3 EDG Building-2 SNPO/NPO/TO's
 - 4. Unit 4 EDG Building -4 SNPO/NPO/TO's
 - 5. Cable Spreading Room-1 SRCO/SRO, 4 SNPO/NPO/TO's
 - 6. Inverter Room-2 NWE/SRCO/RCO's not involved in Control Room duties.

Procedure No.:	Procedure Title:	Page:
0-EPIP-20106	Natural Emergencies	75
		Approval Date:
		5/30/01

ENCLOSURE 3
(Page 8 of 15)

**OPERATIONS GUIDELINES FOR CATEGORY 5 HURRICANE
WITH SIGNIFICANT FLOODING**

- 2.4.8 Determine whether assigning experienced supervisory operators to the remote stations is necessary.
- 2.4.9 Ensure these personnel are in position prior to the arrival of the storm and have appropriate safety equipment, materials to stop flooding or make minor repairs, and needed keys (such as ICCS, vital area).
- 2.4.10 Ensure remote station personnel responsible for ground isolation have a copy of the breaker list and relevant ONOPs.

NOTE

Enclosure 4 provides guidance for personnel at remote stations in case all communications with the control room are lost. Each station should have a full copy so that each knows what the others plan to do if communications are lost.

- 2.4.11 Instruct remote station personnel to continuously monitor local conditions and equipment status; Enclosure 4 is to be used if (and only if) all communication between the control room and remote stations is lost.
- 2.4.12 Turn off selected non-essential loads to minimize the potential for bus grounding in accordance with Technical Specification requirements.

Procedure No.:	Procedure Title:	Page:
0-EPIP-20106	Natural Emergencies	76
		Approval Date:
		5/30/01

ENCLOSURE 3
(Page 9 of 15)

**OPERATIONS GUIDELINES FOR CATEGORY 5 HURRICANE
WITH SIGNIFICANT FLOODING**

3.0 MITIGATION

CAUTION

As the hurricane passes, no personnel should be allowed to leave stations. Exceptions should be conducted using applicable guidance contained in 0-EPIP-20111, Re-Entry.

NOTES

- EOPs and ONOPs should be carefully evaluated during a Category 5 hurricane since these procedures assume that most areas of the plant are accessible. Deviations from procedures shall comply with approved administrative procedures.
- Control Room personnel should constantly monitor their equipment in case it grounds or is secured by an operator performing ground isolation from a remote station.
- These Guidelines are not intended to supercede procedural instructions.

3.1 IF Offsite Power is lost, THEN perform the following:

3.1.1 Consult *-ONOP-004, Loss of Offsite Power.

3.2 IF all AC is lost, THEN perform the following:

3.2.1 Consult *-ONOP-004, Loss of Offsite Power, and *-ONOP-050, Loss of RHR.

3.2.2 **IF** RHR was in service, **THEN** see loss of RHR guidance below.

3.2.3 Determine the need to save sufficient capacity to start an EDG prior to using the spare battery for DC loads.

Procedure No.:	Procedure Title:	Page:
0-EPIP-20106	Natural Emergencies	77
		Approval Date:
		5/30/01

ENCLOSURE 3
(Page 10 of 15)

**OPERATIONS GUIDELINES FOR CATEGORY 5 HURRICANE
WITH SIGNIFICANT FLOODING**

3.3 **IF** all DC power is lost in addition to loss of all AC, **THEN** perform the following:

- 3.3.1 Consult the TSC about the possibility of having I&C obtain instrumentation readings from the Hagan racks and other locations.
- 3.3.2 Consult the TSC about the possibility of having Electrical operate MOV's from dead breakers using portable generators/transformers.

3.4 **IF** RHR is lost, **THEN** perform the following:

NOTE

If RCS temperature rises above the value initially established in Section 2, Preparation, of Enclosure 4, pressurizer level should be allowed to rise. The plant should stabilize at approximately the conditions established during the natural circulation evolution performed in Section 2.

- 3.4.1 Consult *-ONOP-050, Loss of RHR.
- 3.4.2 **IF** use of AFW becomes necessary, **THEN** train 2 should be used as long as possible.
- 3.4.3 Determine whether using other available control valves or the manual isolation valves to the hogger jet ejector are necessary if steam dump to atmosphere valves cannot be used to throttle steam.
- 3.4.4 Maintain steam generators between 40 percent and 70 percent narrow range level and RCS average temperature less than 350°F.
- 3.4.5 **IF** AFW train 2 is lost, **THEN** perform the following:
 - 1. Consult *-ONOP-075, Auxiliary Feedwater System Malfunction.
 - 2. Open MOV-*-1403.
 - 3. Close MOV-*-1405.
- 3.4.6 Maintain steam generators between 40 percent and 70 percent narrow range level and RCS average temperature less than 350°F.

Procedure No.:	Procedure Title:	Page:
0-EPIP-20106	Natural Emergencies	78
		Approval Date:
		5/30/01

ENCLOSURE 3
(Page 11 of 15)

**OPERATIONS GUIDELINES FOR CATEGORY 5 HURRICANE
WITH SIGNIFICANT FLOODING**

3.4.6 (Cont'd)

NOTE

After running an auxiliary feedwater pump, approximately three hours is required for the governor oil pressure to completely bleed down. While less than three hours bleed-down time may be adequate to prevent overspeed upon restart, the risk of losing the pump or having to perform a local reset of the overspeed trip must be weighed against the benefit gained and the alternatives available.

1. Cycle MOV-*-1403 for steam generator level control if necessary.
2. If local actions appear necessary, consult the Emergency Coordinator.
3. Request the TSC to begin researching bleed and feed contingencies.

3.5 **IF** CCW is lost, **THEN** perform the following:

- 3.5.1 Stop any running RHR pump.
- 3.5.2 Consult *-ONOP-030, Component Cooling Water Malfunction.
- 3.5.3 If CCW is lost on one unit, determine whether cross-tying CCW system is necessary.
- 3.5.4 If CCW is lost on both units, connect service water to the charging pumps. If service water is not available and charging pump operation is required, alternate charging pumps to minimize pump heat up.
- 3.5.5 Review loss of RHR and loss of spent fuel pit cooling guidance.

3.6 **IF** ICW is lost, **THEN** perform the following:

- 3.6.1 Stop any running RHR pump
- 3.6.2 Consult *-ONOP-019, Intake Cooling Water Malfunction.
- 3.6.3 Review loss of CCW guidance.

Procedure No.:	Procedure Title:	Page:
0-EPIP-20106	Natural Emergencies	79
		Approval Date:
		5/30/01

ENCLOSURE 3
(Page 12 of 15)

**OPERATIONS GUIDELINES FOR CATEGORY 5 HURRICANE
WITH SIGNIFICANT FLOODING**

3.7 **IF** Instrument Air is lost, **THEN** perform the following:

3.7.1 Consult 0-ONOP-013, Loss of Instrument Air.

3.7.2 After verifying letdown isolation and any running charging pump go to maximum speed, perform the following:

1. Stop any running charging pump.
2. Open *-358, manual bypass around LCV-*-115B
3. Close LCV-*-115C.

3.7.3 After verifying HCV-*-758 failed open resulting in RCS cooldown and pressurizer level drop, perform the following:

1. Throttle CCW to the RHR heat exchanger to return RCS temperature and pressurizer level to the values initially established in Section 2, Preparation, of Enclosure 3.

3.7.4 Cycle charging pumps as needed to maintain the desired pressurizer level.

NOTE

AFW flow control valves, PORVs, and steam dump to atmosphere valves will go to backup nitrogen upon a loss of Instrument Air.

3.7.5 Place AFW Train 2 flow controllers in MANUAL to conserve nitrogen.

3.8 **IF** Spent Fuel Pit Cooling is lost and boiling occurs, **THEN** possible sources of makeup include RWST purification pumps, primary water pumps, CVCS holdup tank pumps, the water treatment plant, service water, fire water, and portable pumps.

Procedure No.:	Procedure Title:	Page:
0-EPIP-20106	Natural Emergencies	80
		Approval Date:
		5/30/01

ENCLOSURE 3
(Page 13 of 15)

**OPERATIONS GUIDELINES FOR CATEGORY 5 HURRICANE
WITH SIGNIFICANT FLOODING**

NOTE

0-ONOP-16.10, Pre-Fire Plan Guidelines and Safe Shutdown Manual Actions, contains valuable information on equipment in rooms and their power supplies. This information may be useful if a room is flooding and equipment in it needs to be de-energized.

- 3.9 **IF** plant flooding is imminent, **THEN** perform the following:
- 3.9.1 For Auxiliary building flooding:
 - 1. De-energize the remaining MCCs
 - 2. Open *-358 and close LCV-*115C on both units
 - 3. Evacuate through the New Electrical Equipment Room to the Cable Spreading Room.
 - 3.9.2 For Turbine Building Flooding, start the 3A EDG and run it in idle in case the 3A MCC floods.
 - 3.9.3 For Computer Room flooding, de-energize ERDADS.
- 3.10 Refer to Enclosure 4, Loss of Communications - Remote Station Guidelines, if all onsite communications are lost.

Procedure No.:	Procedure Title:	Page:
0-EPIP-20106	Natural Emergencies	81
		Approval Date:
		5/30/01

ENCLOSURE 3
(Page 14 of 15)

**OPERATIONS GUIDELINES FOR CATEGORY 5 HURRICANE
WITH SIGNIFICANT FLOODING**

4.0 RECOVERY

CAUTION

The site is likely to present unforeseen hazards to recovery teams, such as weakened structures, faulted piping, electrical hazards, dispersed hazardous chemicals, and an absence of fire fighting capability. Recovery teams and general access must be controlled to minimize risk.

- 4.1 Dispatch, as necessary, teams to search for missing personnel, assess damage, and perform repairs on critical systems once tropical storm force winds recede.
- 4.2 Determine which of the following guidelines are applicable before energizing plant equipment:

NOTE

If electrical equipment is needed for plant or public safety before a full operability assessment can be completed.

- 4.2.1 No electrical equipment should be re-energized until it is checked by an electrician.
- 4.2.2 **IF** reactor safety is challenged **AND** time does not permit equipment recovery actions (such as rinse and dry, megger), **THEN** energize the minimum equipment necessary to meet the challenge and, if possible, station a watch at a safe distance from the equipment.
- 4.2.3 Spare motors may be available from the nuclear units, fossil units, or Issues Warehouse, and if time permits, install spares to allow wetted motors to be recovered.

Procedure No.:	Procedure Title:	Page:
0-EPIP-20106	Natural Emergencies	82
		Approval Date:
		5/30/01

ENCLOSURE 3
(Page 15 of 15)

**OPERATIONS GUIDELINES FOR CATEGORY 5 HURRICANE
WITH SIGNIFICANT FLOODING**

4.2.4 For electrical components wetted by the storm surge or wave action, have Electrical perform a fresh water rinse, dry, and megger, as necessary, and after successful meggering, energize any installed heaters.

4.2.5 For electrical components wetted, by rain, have Electrical dry and megger the equipment, as necessary, and after successful meggering, energize any installed heaters.

4.3 Remove all stop logs and drain plugs to allow any trapped water to drain out as soon as practical.

NOTE

Federal, state, or local assistance may be required in the wake of the storm due to damage to plant systems and impaired site access.

4.4 Make required reports and transmit a prioritized list of needs to outside agencies as soon as communications are re-established.

NOTE

Priority must be placed on the restoration of electrical power and establishing or maintaining RCS or spent fuel pit cooling support systems (depending on where the fuel is).

4.5 Restore the plant to a normal configuration upon discontinuation of the emergency, using annotated steps of this procedure and applicable plant procedures.

Procedure No.:	Procedure Title:	Page:
0-EPIP-20106	Natural Emergencies	83
		Approval Date:
		5/30/01

ENCLOSURE 4
(Page 1 of 9)

LOSS OF COMMUNICATIONS - REMOTE STATION GUIDELINES

1.0 480V LOAD CENTER ROOM OPERATOR

NOTE

These instructions are provided in case all communications are lost between the Control Room and your station. Before resorting to these default instructions, attempt to contact the Control Room on all communications circuits. Use of these instructions must be tempered by your understanding of the current situation and good judgement.

- 1.1 Monitor the 4KV Bus Rooms for flooding and the 480V Load Center Rooms for water intrusion and attempt to contain or divert minor flooding to keep it away from the buses.

CAUTION

Even if a 4kv bus feeder breaker is tripped, breaker control power is normally present and presents an electrical safety hazard.

- 1.2 **IF** flooding of a bus is imminent, **THEN** trip the feeder breaker for that bus and remain out of that bus's room.
- 1.3 Continually check the 4KV buses for grounds in accordance with *-ONOP-005.4, 4KV Bus *A, *B, or *D Ground, and if a ground is detected, perform ground isolation:
- 1.3.1 **IF** the 4KV ground is isolated to a non-load center load, **THEN** leave the breaker open.

Procedure No.:	Procedure Title:	Page:
0-EPIP-20106	Natural Emergencies	84
		Approval Date:
		5/30/01

ENCLOSURE 4
(Page 2 of 9)

LOSS OF COMMUNICATIONS - REMOTE STATION GUIDELINES

NOTES

- *If a remote station operator observes that a load center or MCC is deenergized, he will locally perform ground isolation. He will expect the 480V Load Center Room Operator to reenergize the load center or MCC, as discussed below.*
- *If a ground is localized to H Load Center, both feeder breakers should be opened to isolate the ground. When re-energizing the load center, only one feeder breaker should be closed for the first five minutes. If no ground is detected, the other feeder breaker may be closed.*

1.3.2 **IF** the 4KV ground is isolated to a load center, **THEN** perform the following:

1. **IF** the 480V ground is isolated to a non-MCC Load, **THEN** leave the breaker open.
2. **IF** the ground is isolated to an MCC, **THEN** perform the following:
 - a. Open the MCC's feeder breaker(s) for ten minutes.
 - b. Attempt to reclose the feeder breaker(s) after ten minutes.
 - c. **IF** the ground is **NOT** present, **THEN** leave the breaker closed.
 - d. **IF** H MCC ground is still clear after 5 minutes, **THEN** close the other feeder breaker.
 - e. **IF** the ground is still present, **THEN** reopen the breaker for another ten minutes.
 - f. Repeat until the ground disappears or until communications are re-established.

Procedure No.:	Procedure Title:	Page:
0-EPIP-20106	Natural Emergencies	85
		Approval Date:
		5/30/01

ENCLOSURE 4
(Page 3 of 9)

LOSS OF COMMUNICATIONS - REMOTE STATION GUIDELINES

2.0 AUXILIARY BUILDING OPERATOR

NOTE

These instructions are provided in case all communications are lost between the Control Room and your station. Before resorting to these default instructions, attempt to contact the control Room on all communications circuits. Use of these instructions must be tempered by your understanding of the current situation and good judgement.

- 2.1 Monitor the Auxiliary Building for flooding. Attempt to contain or divert minor flooding away from the MCCs and the charging pumps.

CAUTION

MCC local feeder breakers are actually disconnect switches; do not interrupt load with them.

- 2.2 **IF** flooding of an MCC is imminent, **THEN** shed all loads on the MCC and open the local feeder breaker for that MCC.
- 2.3 **IF** water level throughout the Auxiliary Building is rising and all MCCs and charging pumps are threatened, **THEN** perform the following:
- 2.3.1 Shed all loads on the MCCs.
 - 2.3.2 Open the MCCs' local feeder breakers.
 - 2.3.3 Open *-358 and close LCV-*-115C on both units.
 - 2.3.4 Evacuate to the Cable Spreading Room via the New Electrical Equipment Room.

Procedure No.:	Procedure Title:	Page:
0-EPIP-20106	Natural Emergencies	86
		Approval Date:
		5/30/01

ENCLOSURE 4
(Page 4 of 9)

LOSS OF COMMUNICATIONS - REMOTE STATION GUIDELINES

NOTES

- *If a load center room operator observes that an MCC is grounded, he will open the load center breaker for that MCC. After ten minutes, the operator will reclose the breaker. He will repeat this until the ground is isolated by the Auxiliary Building Operator or until communications are re-established.*
- *Coordinate any ground isolation efforts on the 3D MCC with the Cable Spreading Room Operator.*

CAUTIONS

- *Ensure the MCC local feeder breaker (disconnect) is open when ground isolation is being performed.*
- *All applicable safety precautions for working with energized equipment must be followed. Electricians troubleshooting grounds and measuring voltages need to be very careful to prevent injury. Emergency medical response may be delayed and will be limited by the hurricane.*

2.4 **IF** an MCC voltage suddenly goes to zero, **THEN** perform the following:

- 2.4.1 Open the local feeder breaker for that MCC.
- 2.4.2 Have an electrician check whether the MCC is grounded.
- 2.4.3 **IF** the MCC is grounded, **THEN** have an electrician determine which load is grounded.
- 2.4.4 Open the grounded load breaker.

Procedure No.:	Procedure Title:	Page:
0-EPIP-20106	Natural Emergencies	87
		Approval Date:
		5/30/01

ENCLOSURE 4
(Page 5 of 9)

LOSS OF COMMUNICATIONS - REMOTE STATION GUIDELINES

2.4.5 **IF** the voltage to the MCC is still zero, **THEN** close the MCC local feeder breaker, **OR** perform the following:

1. Recording all changes made, shed all loads on the MCC.
2. Close the MCC's local feeder breaker.
3. Except for the grounded load, restore MCC loads.

2.4.6 **IF** the ground is not isolable, **THEN** leave the local feeder breaker open.

2.5 **IF** no ground is found on a de-energized MCC, **THEN** close the local feeder breaker.

2.6 **IF** the MCC remains de-energized for ten minutes, **THEN** repeat Subsection 2.4 every 30 minutes until the MCC is re-energized **OR** until communications are re-established.

3.0 **CABLE SPREADING ROOM OPERATOR**

NOTE

These instructions are provided in case all communications are lost between the Control Room and your station. Before resorting to these default instructions, attempt to contact the Control Room on all communications circuits. Use of these instructions must be tempered by your understanding of the current situation and good judgement.

- 3.1 Monitor the Cable Spreading Room for water intrusion and periodically open all DC bus and MCC enclosures in the Cable Spreading and Electrical Equipment Rooms to check for water.

Procedure No.:	Procedure Title:	Page:
0-EPIP-20106	Natural Emergencies	88
		Approval Date:
		5/30/01

ENCLOSURE 4
(Page 6 of 9)

LOSS OF COMMUNICATIONS - REMOTE STATION GUIDELINES

NOTE

Timely ground isolation is required to protect against double grounds which are much harder to locate.

- 3.2 Continuously monitor DC bus voltage and ground indication in accordance with 0-ONOP-003.10, 125 VDC System - Location of Grounds, and 0-ONOP-003.11, Auxiliary 125 VDC System - Location of Grounds.
- 3.3 **IF** a DC ground is detected, **THEN** perform ground isolation in accordance with applicable off-normal procedure.
- 3.4 Continuously monitor voltage in the Electrical Equipment Room:

NOTE

If a Load Center Room Operator observes that a load center or MCC is grounded, he will open the breaker for that load center or MCC. After ten minutes, the operator will reclose the breaker. He will repeat this until the ground is isolated by the Cable Spreading Room Operator or until communications are reestablished.

- 3.4.1 **IF** voltage is lost to an H load center, **THEN** open both local feeder breakers and have an electrician determine grounded load(s):
 - 1. **IF** the 480V ground is isolated to a non-MCC load, **THEN** leave that load's breaker open.

NOTE

If the ground is isolated to 3D vital MCC, coordinate ground isolation efforts with the Auxiliary Building operator.

- 2. **IF** the ground is isolated to a D vital MCC, **THEN** perform the following:
 - a. Open the MCC's feeder breaker.

Procedure No.:	Procedure Title:	Page:
0-EPIP-20106	Natural Emergencies	89
		Approval Date:
		5/30/01

ENCLOSURE 4
(Page 7 of 9)

LOSS OF COMMUNICATIONS - REMOTE STATION GUIDELINES

3.4.1 (Cont'd)

3. **WHEN** ground is isolated, **THEN** reclose the H Load Center feeder breakers
 - a. Verify that the grounded load breaker is open.
 - b. **IF** the ground is isolated, **THEN** reclose the MCC feeder breaker and restore loads as necessary.
 - c. **IF** the ground is not isolable, **THEN** leave the MCC feeder breaker open.

3.4.2 Frequently check 120V AC panels to be energized.

3.4.3 **IF** the 120V AC panel is de-energized or grounded, **THEN** perform the following:

1. Open the local feeder breaker.
2. Have an electrician determine grounded load(s).
3. Open grounded load breaker(s)
4. **WHEN** grounded loads are clear, **THEN** close the feeder breaker.

Procedure No.:	Procedure Title:	Page:
0-EPIP-20106	Natural Emergencies	90
		Approval Date:
		5/30/01

ENCLOSURE 4
(Page 8 of 9)

LOSS OF COMMUNICATIONS - REMOTE STATION GUIDELINES

4.0 UNIT 3 EDG OPERATOR

NOTE

These instructions are provided in case all communications are lost between the Control Room and your station. Before resorting to these default instructions, attempt to contact the Control Room on all communications circuits. Use of these instructions must be tempered by your understanding of the current situation and good judgement.

CAUTION

Stand clear of the EDGs since they may start at any time.

- 4.1 Monitor the rooms for water intrusion and attempt to contain or divert minor flooding that threatens the safe operation of an EDG.
- 4.2 **IF** flooding in a room threatens energized electrical equipment, **THEN** open appropriate local breakers.
- 4.3 **IF** the electrical equipment cannot be isolated locally due to flooding, **THEN** attempt to isolate the equipment from a remote power source (i.e., Load Breaker at MCC, LC for MCC, 4KV Bus for LC, EDG for 4KV Bus) stopping the EDG and remaining on elevated platforms above the flooding.
- 4.4 **IF** the room becomes untenable, **THEN** evacuate to the Cable Spreading Room or Load Center Room.
- 4.5 Continuously monitor running EDGs, **AND IF** trouble is noted, **THEN** consult 3-ONOP-023.2, Emergency Diesel Generator Failure for guidance and attempt to rectify the problem.
- 4.6 **IF** the EDG load suddenly drops to zero, **THEN** check the EDG output breaker, **AND IF** open, the bus is probably grounded.
- 4.7 **IF** an EDG runs unloaded for four hours **AND** no communications from the Control Room or Load Center Room are received, **THEN** stop the EDG and place it in standby.

Procedure No.:	Procedure Title:	Page:
0-EPIP-20106	Natural Emergencies	91
		Approval Date:
		5/30/01

ENCLOSURE 4
(Page 9 of 9)

LOSS OF COMMUNICATIONS - REMOTE STATION GUIDELINES

5.0 UNIT 4 EDG OPERATOR

NOTE

These instructions are provided in case all communications are lost between the Control Room and your station. Before resorting to these default instructions, attempt to contact the Control Room on all communications circuits. Use of these instructions must be tempered by your understanding of the current situation and good judgement.

CAUTION

Stand clear of the EDGs since they may start at any time.

- 5.1 Monitor the rooms for water intrusion and attempt to contain or divert minor flooding that threatens the safe operation of an EDG.
- 5.2 **IF** flooding in a room threatens energized electrical equipment, **THEN** open appropriate local breakers.
- 5.3 **IF** the electrical equipment cannot be isolated locally due to flooding, **THEN** attempt to isolate the equipment from a remote power source (i.e. Load Breaker at MCC, LC for MCC, 4KV Bus for LC, EDG for 4KV Bus) stopping the EDG and remaining out of the room.
- 5.4 Continuously monitor running EDGs. **IF** trouble is noted, **THEN** consult 4-ONOP-023.2, Emergency Diesel Generator Failure, for guidance and attempt to rectify the problem.
- 5.5 **IF** EDG load suddenly drops to zero, **THEN** check the EDG output breaker. If open, the bus is probably grounded. **IF** an EDG runs unloaded for four hours, and no communications from the Control Room or load center room are received, **THEN** stop the EDG and place it in standby.
- 5.6 Continually check the D 4KV buses for signs of grounds. **IF** any grounded equipment is discovered, **THEN** secure that load immediately.

Procedure No.:	Procedure Title:	Page:
0-EPIP-20106	Natural Emergencies	92
		Approval Date:
		5/30/01

ATTACHMENT 1
(Page 1 of 2)
RECOMMENDED MINIMUM HURRICANE STAFFING LEVELS

TSC	CR
*EC Primary _____ Alternate _____	(1) NPS Primary _____ Alternate _____
*TSC Tech Asst. to EC Primary _____ Alternate _____	(2) ANPS Primary _____ Alternate _____
*TSC HP Supervisor Primary _____ Alternate _____	Primary _____ Alternate _____
*TSC Maint Mgr or TSC Mech Engineer Primary _____ Alternate _____	(3) RO's Primary _____ Alternate _____
*TSC Chem Supv Primary _____ Alternate _____	Primary _____ Alternate _____
*TSC ENS Comm Primary _____ Alternate _____	(6) NLO's Primary _____ Alternate _____
*TSC Dose Assess Tech Primary _____ Alternate _____	Primary _____ Alternate _____
*TSC Reactor Engineer Primary _____ Alternate _____	Primary _____ Alternate _____
*TSC Elec/I&C Engineer Primary _____ Alternate _____	Primary _____ Alternate _____
(4) Damage Assessment Engineers Primary _____ Alternate _____	Primary _____ Alternate _____
Primary _____ Alternate _____	EOF
Primary _____ Alternate _____	*RM Primary _____ Alternate _____
Primary _____ Alternate _____	*RM Ops Advisor Primary _____ Alternate _____
Other Protection & Control Communications Rep.	*ERDAD's Operator or TSC Communicator Primary _____ Alternate _____
*Minimum Staffing Required for Facility Activation	Primary _____ Alternate _____
- Category 1, 2 or 3 Storms: Assign 1 Shift of staffing	*(2) Dose Assessment Coord Primary _____ Alternate _____
- Category 4 or 5 Storms: Assign 2 Shifts of staffing	*HRD Communiator Primary _____ Alternate _____

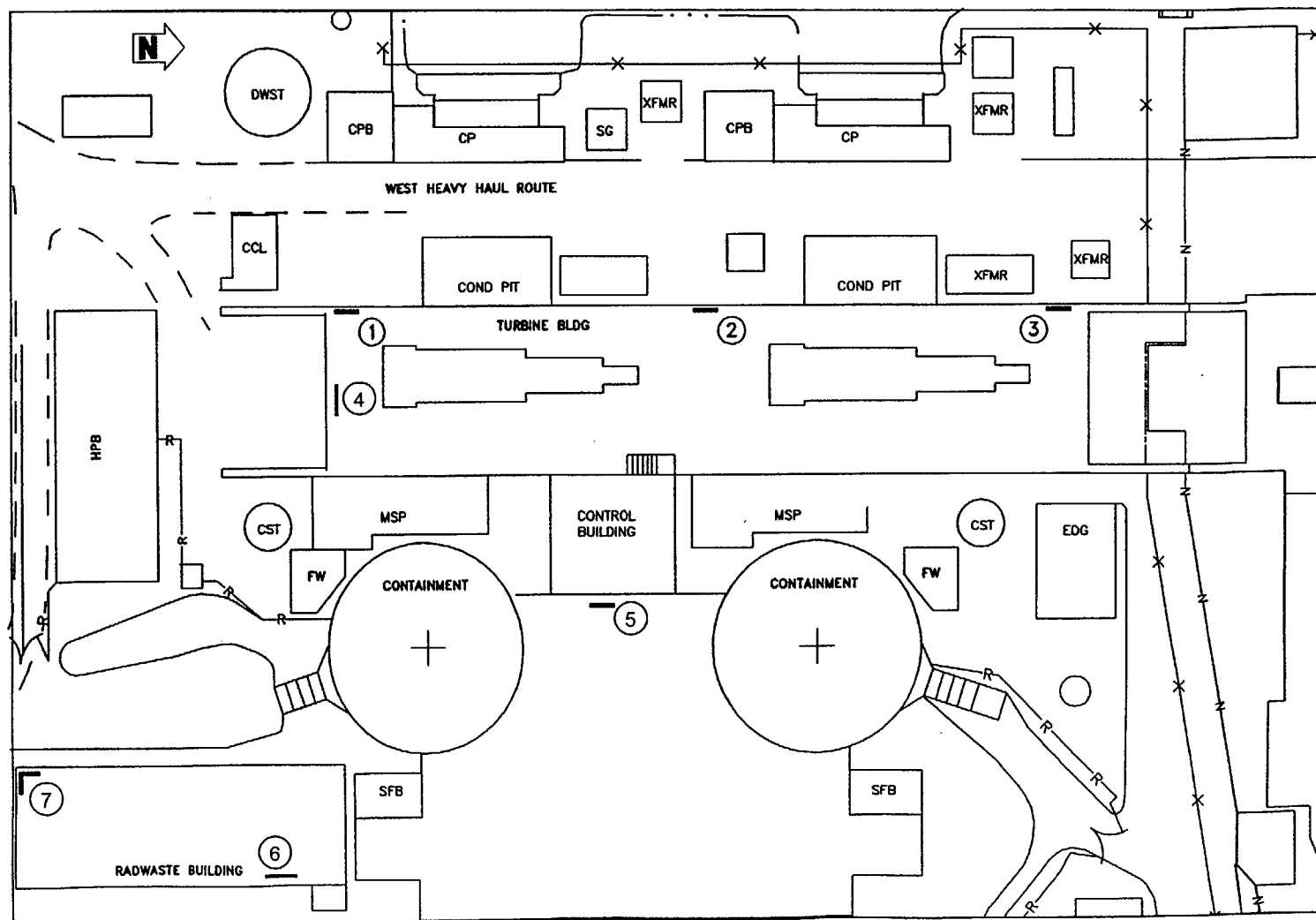
Procedure No.: 0-EPIP-20106	Procedure Title: Natural Emergencies	Page: 93
		Approval Date: 5/30/01

ATTACHMENT 1
(Page 2 of 2)
RECOMMENDED MINIMUM HURRICANE STAFFING LEVELS

* OSC	
*OSC Manager Primary _____ Alternate _____	(12) HP Techs *Primary _____ *Alternate _____
(5) Mechanics *Primary _____ *Alternate _____ *Primary _____ *Alternate _____ Primary _____ Alternate _____ Primary _____ Alternate _____ Primary _____ Alternate _____	*Primary _____ *Alternate _____ *Primary _____ *Alternate _____ *Primary _____ *Alternate _____ *Primary _____ *Alternate _____ *Primary _____ *Alternate _____ Primary _____ Alternate _____
(1) GML - M Primary _____ Alternate _____	Primary _____ Alternate _____
(2) Utility Workers Primary _____ Alternate _____ Primary _____ Alternate _____	(2) I&C Supervisors Primary _____ Alternate _____ Primary _____ Alternate _____
(1) GML - E Primary _____ Alternate _____	(4) I&C Specialist *Primary _____ *Alternate _____ Primary _____ Alternate _____ Primary _____ Alternate _____ Primary _____ Alternate _____
(3) Electricians *Primary _____ *Alternate _____ *Primary _____ *Alternate _____ *Primary _____ *Alternate _____	(2) Chem Techs *Primary _____ *Alternate _____ *Primary _____ *Alternate _____
Materials Management Primary _____ Alternate _____ Primary _____ Alternate _____	
*Minimum Staffing Required for Facility Activation	

Completed By: _____ Date: _____

ATTACHMENT 2
(Page 1 of 1)
SECURITY BALLISTIC SHIELD LOCATIONS
(Shields 1 through 7)



FINAL PAGE