

To : NRC  
 Facility : CR3 Department : NRC  
 Address : CR3-01242 / MAIL CODE: N/A  
 DC DESK

From : CR3DOCSVCS Attention: DOCUMENT SERVICES - SA2A  
 Address : FLORIDA POWER CORPORATION  
 CRYSTAL RIVER COMPLEX  
 15760 WEST POWERLINE STREET  
 City : CRYSTAL RIVER State:FL Postal Code: 34428-6708  
 Country : UNITED STATES  
 Email :  
 Contact :

Date/Time : 01/06/04 13:20 Transmittal Group Id:0000014356  
 Trans No. : 000138220 Title:  
 Total Items: 00001

PASSPORT DOCUMENT

TRANSMITTAL

Page: 1



Item	Facility	Type	Sub	Document Number	Sheet	Doc Status	Revision	Doc Date	Copy #	Media	Copies
0001	CR3	POM	EMG	EM0102		ACTIVE	045			H	01

If a document was not received or is no longer required check the response below and return to sender.

☐ Documents noted above not received (identify those not received).

☐ I no longer require distribution of these documents (identify those no longer required).

Date: \_\_\_\_\_ Signature: \_\_\_\_\_

1045

**PROGRESS ENERGY**  
**CRYSTAL RIVER UNIT 3**  
**PLANT OPERATING MANUAL**

**EMERGENCY PLAN IMPLEMENTING PROCEDURE**

**EM-102**

***OPERATION OF THE TECHNICAL SUPPORT CENTER***

## TABLE OF CONTENTS

<u>SECTION</u>		<u>PAGE</u>
1.0	PURPOSE .....	3
1.1	TSC Function .....	3
1.2	General Information .....	3
2.0	DEVELOPMENTAL REFERENCES .....	3
3.0	PERSONNEL INDOCTRINATION .....	4
3.1	Definitions .....	4
3.2	Responsibilities .....	4
3.3	Limits & Precautions .....	6
3.4	TSC/OSC Equipment and Supplies .....	7
3.4.1	Emergency Kits and Equipment.....	7
3.4.2	Reference Materials.....	7
3.4.3	Controlled Procedures and Drawings.....	7
3.4.4	Supplies .....	7
3.4.5	Communications Equipment.....	8
4.0	INSTRUCTIONS .....	9
4.1	Emergency Coordinator .....	9
4.1.1	Pre-Operation .....	9
4.1.2	Operation .....	10
4.1.3	Shift Change for Declared Emergencies.....	11
4.1.4	Deactivation .....	11
4.1.5	Evacuation .....	11
4.2	Radiation Controls Coordinator .....	13
4.2.1	Pre-Operation .....	13
4.2.2	Operation .....	13
4.3	Accident Assessment Coordinator .....	16
4.3.1	Pre-Operation .....	16
4.3.2	Operation .....	16
4.4	Repairs Coordinator .....	17
4.4.1	Pre-Operation .....	17
4.4.2	Operation .....	17
4.5	Communication/Report Coordinator .....	18
4.5.1	Pre-Operation .....	18
4.5.2	Operation .....	18
4.6	Security Coordinator .....	20
4.6.1	Pre-Operation .....	20
4.6.2	Operation .....	20
ENCLOSURES		
1	TSC/OSC Floor Plan.....	22
2	TSC/OSC Organizational Chart/ TSC/OSC Staffing.....	23
3	Possible NRC Incident Response Team Members at TSC/OSC .....	25
3A	Questions NRC may ask over ENS or HPN phones.....	26
4	Facility Turnover/Briefing Worksheet (Optional Record Non Quality) .....	27
5	Contingency Plans for Securing & Establishing Alternate TSC/OSC.....	28
6	Alternate TSC/OSC Control Complex Area Setup and Staffing Guidelines .....	29
7	Remote TSC Operation at the EOF .....	31

- 1.0 PURPOSE**
- 1.1 TSC Function**
  - 1.1.1 Provide instructions for the pre-operation, operation, evacuation and deactivation of the Technical Support Center (TSC). [NOCS 10517]
  - 1.1.2 The primary function of the TSC is to assume responsibility for Radiological Emergency Response Plan implementation from the Control Room, minimizing the number of personnel in the Control Room to those necessary to bring the plant to a safe condition. [NOCS 1031, 6120]
  - 1.1.3 The TSC functions as a point of assembly for experienced plant personnel in the planning and re-entry/recovery operation. [NOCS 10516, 10576]
- 1.2 General Information**
  - 1.2.1 The TSC is co-located at the bottom of the northeast corner of the berm with the Operational Support Center (OSC), and is activated whenever an Alert, Site Area Emergency, or General Emergency classification is declared. [NOCS 1068, 12030]
  - 1.2.2 The TSC combines both management and emergency teams needed for assuring appropriate measures are taken to protect public health and safety in the event of an emergency.
  - 1.2.3 Notification for activation of the TSC is by PA announcement, activation of the emergency group pagers and telephone notification. Enclosure 1 illustrates the setup for functional areas described in this procedure.
  - 1.2.4 Personnel fulfilling the functions to declare the TSC operational should have the capability of responding within 45 minutes of notification. Enclosure 2 illustrates the organizational structure of the TSC. [NOCS 1137]
- 2.0 DEVELOPMENTAL REFERENCES**
  - 2.1 10CFR50.47, Appendix E, Emergency Planning and Preparedness for Production and Utilization Facilities
  - 2.2 10CFR50.47, Emergency Plans
  - 2.3 CR-3 Severe Accident Guideline
  - 2.4 EM-202, Duties of the Emergency Coordinator
  - 2.5 Health Physics Basis Document (HPB) 98-16, Potassium Iodide Use Guidelines for Radiation Emergency Workers
  - 2.6 NEI 91-04, Rev. 1, Severe Accident Issue Closure Guidelines
  - 2.7 NUREG-0654, Criteria for Preparation and Evaluation of Radiological Emergency Response Plans and Preparedness in Support of Nuclear Power Plants
  - 2.8 Radiological Emergency Response Plan
  - 2.9 ADM-NGGC-0105, ALARA Planning
  - 2.10 RTM-96, Response Technical Manual, Section J, Use of Potassium Iodide and Thyroid Monitoring

### **3.0 PERSONNEL INDOCTRINATION**

#### **3.1 Definitions**

- 3.1.1 Activation** - to provide notification to emergency response personnel of the need to respond to the TSC/OSC for staffing and operation.
- 3.1.2 Badge-In** – Present Security badge briefly to TSC Card Reader. This ensures accountability of TSC/OSC personnel during emergency.
- 3.1.3 Operational** - the minimum functions are established, required equipment is in proper working order, and the EC has assumed responsibility and authority for the emergency condition.
- 3.1.4 Severe Accident** - An accident beyond that assumed in the CR-3 design and licensing basis that results in catastrophic fuel rod failure, core degradation, and fission product release into the Reactor Vessel, Reactor Building, or the environment.
- 3.1.5 Ventilation System Emergency Mode** – re-circulates air through charcoal and HEPA filters and makes the TSC/OSC habitable similar to the Control Room for postulated accident conditions. [NOCS 12030]

#### **3.2 Responsibilities**

Below represents responsibilities maintained during minimum staffing:

- 3.2.1 a. Emergency Coordinator**
  - o Turn-over from Control Room.
  - o Implement EC responsibilities as identified in EM-202 (classification, notification and Protective Action Recommendations).
  - o Coordinate and direct on-site emergency response.
  - o Classify/terminate the emergency in accordance with the Emergency Action Levels (EALs).
- b. Radiation Controls (Chemistry and Radiation Protection)**
  - o Brief the EC on radiation matters, especially those affecting Emergency Action Levels (EALs) and Protective Action Recommendations (PARs).
  - o Update Release Significance Category using EM-202 Enclosure 2.
  - o Acquire and update Met Data information electronically or from Control Room
- c. Accident Assessment**
  - o Brief the EC on plant status (items contained in EM-225, Enclosure 2), especially those impacting Emergency Action Levels or Protective Action Recommendations.
  - o Update Critical Safety Functions Status.
  - o Provide communication path between TSC and Control Room.
- d. Repairs (Maintenance)**
  - o Mobilize Maintenance Department resources to assist in emergency repairs.

e. Communications/Report Preparation

- o Prepare Florida Nuclear Plant Emergency Notification Message Forms, and relay necessary information to State Warning Point Tallahassee.
- o Prepare Reactor Plant Event Notification Worksheets if Accident Assessment personnel NOT already communicating on ENS. Ensure necessary information is relayed to the NRC via the Emergency Notification System (ENS).

f. Security and Accountability

- o Call in additional TSC support, as needed.
- o Direct Security in the implementation of emergency security procedures including accountability of personnel, evacuation of personnel, and access control within the CR-3 Protected Area.

3.2.2 Functions managed from, but NOT required to declare the TSC operational, are as follows:

a. NRC Liaison/Assistant Emergency Coordinator

- o Coordinate entry of NRC Incident Response Team into TSC and Control Room.
- o Hold briefing with NRC upon arrival at TSC. Brief the NRC on following:
  - Event history
  - Latest status of emergency
  - Latest Protective Actions taken
  - Explain displays and Status Board information
  - Determine NRC position and introduce to CR-3 counterpart (Review Enclosure 3)
  - Discuss TSC/OSC layout and location of NRC phones (ENS, HPN, RSCL, PMCL NRC extensions)
- o Assist NRC during the emergency condition by providing logistic support and keeping the NRC continually informed of plant status and possible radiological consequences. [NOCS 7020]
- o Update NRC on plans for emergency and recovery actions and needs for assistance.
- o Assist EC as needed.

b. NRC Health Physics Network (HPN) Talker

- o Provide radiological and meteorological data to the NRC when requested via HPN phone. This position requires someone with extensive Health Physics experience. Refer to Enclosure 3A for typical requested information over HPN and ENS phone lines.

c. Status Board Keeper

- o Maintain the "Radiological Emergency Conditions" status board.
- o Update the following information and ensure it is current for reporting requirements:
  - Release Data
  - Weather Data
  - Affected Downwind Sectors
  - Recommended Protective Actions
- o Update Release Significant board and other data, as needed.

d. Administrative Support

- o Ensure computer setup for TSC viewing and EOF access to log via computer.
- o Log key events, equipment problems and radiological events.
- o Ensure computer clock correct.
- o Maintain Team Status visible
- o Update clock message as needed for time and emergency classifications.
- o Update team status as appropriate.
- o Ensure EC holds briefings on hourly basis, at a minimum.
- o Obtain notification forms for State and NRC from Communications/Report Preparation when complete and fax to EOF, State, Bureau of Radiation Control, Citrus and Levy County and CR-3 Control Room.
- o Fax other pertinent information to EOF (e.g., signed copy of TSC logbook) as needed.
- o Distribute incoming faxes as appropriate.

e. Recall/SPDS Data Specialist

- o Display Plant Parameters and trend data as identified by the EC or Accident Assessment Coordinator on display screens.

3.2.3 Document Services maintains manuals, procedures, and drawings in the TSC/OSC.

3.3 Limits & Precautions

3.3.1 The TSC/OSC ventilation system, when in the emergency re-circulation mode, supplies breathing air to support 50 people.

3.3.2 IF the occupancy of the TSC/OSC exceeds 50,  
AND the TSC/OSC ventilation is in the Emergency Recirculation Mode,  
THEN O<sub>2</sub> and CO<sub>2</sub> monitoring must be performed to ensure habitability.

3.3.3 Consideration should be given to the staffing levels outlined in Enclosure 2. [NOCS 63010]

3.3.4 IF the TSC/OSC is uninhabitable due to inadequate ventilation, radiological conditions, security emergency, flooding, or for other reasons,  
THEN areas in the Control Complex should become the alternate TSC/OSC.

3.3.5 IF an exposure of greater than 25 REM to the thyroid is expected,  
THEN the administration of KI should be considered.

3.3.6 The TSC/OSC flood level is 101'6", raised to 103' or greater with flood protection.

### 3.4 TSC/OSC EQUIPMENT AND SUPPLIES

#### 3.4.1 Emergency Kits and Equipment [NOCS 1126]

##### NOTE

HPP-409 identifies the supplies contained in the Emergency Kits a-d.

- a. TSC/OSC Emergency Supplies
- b. Decontamination Supplies [NOCS 15130, 24200]
- c. Environmental Survey Supplies (located in Survey Vehicle) [NOCS 24290]
- d. Unit 1,2,3 and 4 Control Room Supplies
- e. Portable Continuous Air Monitor
- f. Dose Assessment Computer (RADDOSE IV)
- g. Plant parameters via computer (PICS) [NOCS 24120]
- h. Safety Parameter Display System (SPDS) [NOCS 24120]
- i. Sandpiper Pump (electric & manual)
- j. Printer/Viewer for microfiche
- k. CO<sub>2</sub>/O<sub>2</sub> Monitor
- l. Decontamination Shower and Sink
- m. Severe Accident fittings (2)
- n. Calculators (minimum of 3)

#### 3.4.2 Reference Materials

The built-in cabinets located in the TSC contain various manuals and reference material. A current list of reference material in these cabinets is listed on the outside of the main TSC cabinet. In the event it becomes necessary to move the TSC/OSC functions to an alternate location, consider the items marked with an asterisk as items that may need to be moved to the alternate location.

#### 3.4.3 Controlled Procedures and Drawings

Most controlled procedures and drawings are located in file cabinets in the OSC, on the east wall. Various OP, EOP and other procedures are located in the Accident Assessment/Dose Assessment room files and in individual TSC files. Drawings NOT in hardcopy form are available on aperture cards in files in the Dosimetry room.

#### 3.4.4 Supplies

Administrative supplies are located in various locations throughout the TSC and OSC.



### **3.4.5**

#### **Communications Equipment [NOCS 3053]**

- a. Commercial Telephone including two NRC lines [NOCS 24070]
- b. Company Microwave System
- c. Local Government Radio (LGR)
- d. Florida Emergency Satellite Communication (ESATCOM)
- e. Emergency Notification System (ENS) [NOCS 24070]
- f. Health Physics Network (HPN) [NOCS 24070]
- g. Public Address Exchange System (PAX)
- h. State Hot Ringdown System (SHRD)
- i. Portable Transceivers (as assigned) [NOCS 10090]
- j. Telecopy Machine (FAX)
- k. High and Low Band Base Stations [NOCS 24110]
- l. TSC/EOF Ringdown System [NOCS 10190]
- m. Dose Assessment Ringdown System [NOCS 10190]
- n. Accident Assessment Ringdown (CR- TSC/OSC) [NOCS 10190, 10535, 10576]
- o. Portable Satellite phone
- p. RSCL (Reactor Safety Counterpart Link)
- q. PMCL (Protective Measure Counterpart Link)
- r. Backup Quickpager Unit for notifying emergency personnel

**INSTRUCTIONS**

The steps under this section are NOT required to be performed in sequence.

Check the listing below for required TSC position and refer to the designated section for instructions. Positions NOT listed below perform job functions as needed to support TSC activities and as identified under responsibility Section, 3.2.2.

IF YOUR TSC POSITION IS:	REFER TO SECTION:
EMERGENCY COORDINATOR	4.1
RADIATION CONTROLS COORDINATOR	4.2
ACCIDENT ASSESSMENT COORDINATOR	4.3
REPAIRS COORDINATOR	4.4
COMMUNICATIONS/REPORT COORDINATOR	4.5
SECURITY COORDINATOR	4.6

**4.1****Emergency Coordinator**

IF TSC is established at the Alternate TSC (Control Complex),  
THEN GO TO Enclosure 5 and 6 for setup and staffing guidance.

IF TSC is established at the EOF,  
THEN GO TO Enclosure 7 for TSC operation at the EOF.

IF TSC staffing size is inadequate to perform functions listed under Operation,  
AND Pre-Operation activities are complete,  
THEN, as a minimum, MAINTAIN responsibilities identified in Section 3.2.1 for TSC Operation.

**4.1.1****Pre-Operation****4.1.1.1**

BADGE IN at TSC Card Reader and PLACE name on TSC Staffing Board.

**NOTE**

The EC may assign available personnel to functions until the designated personnel are available.

**4.1.1.2**

ENSURE Functions required to declare the TSC operational include the following personnel with capability to perform minimum functions identified in each respective pre-operation section.

- o Emergency Coordinator
- o Radiation Controls Coordinator
- o Security Coordinator
- o Accident Assessment Coordinator
- o Communications/Report Coordinator (One required for initial operation)
- o Repairs (Maintenance) Coordinator

**4.1.1.3**

OBTAIN turnover briefing on status of emergency from Control Room, using Enclosure 4. CONSIDER contacting EOF Director and have Control Room turnover on conference line.

**4.1.1.4**

IF there is a delay in declaring the TSC operational immediately after turnover,  
THEN ENSURE no data has changed from original turnover, especially notifications made.

**4.1.1.5**

DECLARE TSC operational within 60 minutes of declaration of an Alert, Site Area Emergency, or General Emergency. [NOCS 1137]

- 4.1.2 Operation
- 4.1.2.1 REQUEST Control Room to announce to plant staff that the TSC is operational.
- 4.1.2.2 USE TSC Public Address system for TSC announcements and briefings.
- 4.1.2.3 ANNOUNCE to TSC/OSC staff that the TSC is Operational, and PROVIDE update on status of plant and times next state and NRC notifications are due.
- 4.1.2.4 DETERMINE TSC/OSC habitability (release in progress, wind direction). If necessary, ENSURE TSC/OSC ventilation is put into emergency recirculation mode. (EM-104, Enclosure 6)
- 4.1.2.5 OBTAIN needed procedures and logbook from file drawer. An additional Emergency Coordinator Manual is in the TSC cabinet for use by NRC Liaison.
- 4.1.2.6 INITIATE log of activities to document times, and results of significant actions.
- 4.1.2.7 ENSURE support functions are available as needed.
- 4.1.2.8 IMPLEMENT and DOCUMENT EM-202 responsibilities.  
IF unable to obtain original EM-202 from Control Room,  
THEN START TSC copy and REQUEST previous pages be faxed to TSC.

**NOTE**

Update briefings should be held hourly, at a minimum. These briefings should include a brief update from every required function at the table or as a summary from the EC. These briefings are heard throughout the TSC and OSC and each person is to speak into the microphone, identify themselves and what function they are representing.

- 4.1.2.9 CONDUCT initial and periodic briefings.
- 4.1.2.10 UPDATE the TSC on any of the following as it occurs:
- o Change in emergency classification
  - o Change in Protective Action Recommendations
  - o Significant plant evolutions, equipment failures, releases
  - o EOF operational (EOF assumes State notification, Protective Action Recommendations, Dose Assessment)
- 4.1.2.11 ENSURE classifications, notifications and PARs are performed as required, as the TSC staff becomes focused on accident assessment and mitigation activities. [NOCS 13010]
- 4.1.2.12 ENSURE emergency teams are dispatched as needed.
- 4.1.2.13 APPROVE Emergency RWP and Emergency Team Authorization forms according to EM-104 as needed.
- 4.1.2.14 OBTAIN guidance as needed on radiological and habitability matters, accident mitigation, repair and security functions.
- 4.1.2.15 ENSURE the Radiological Emergency Conditions Status Board has updated Protected Action Recommendations (PARs) for reports made to the NRC and State of Florida.
- 4.1.2.16 ENSURE TSC/OSC habitability is maintained. If necessary, EVACUATE to Alternate TSC and OSC areas in the Control Complex.
- 4.1.2.17 ENSURE the NRC and the EOF Director are informed of plant status.

- 4.1.2.18 REVIEW and APPROVE mitigation strategies during a Severe Accident as developed by the Accident Assessment Team.

**NOTE**

A separate notification is required to the NRC for each occasion defined by 50.54x. Once a Severe Accident is declared, 50.54 (x)(y) applies. Only one notification to the NRC is required while in a Severe Accident.

- 4.1.2.19 IMPLEMENT 10CFR50.54(x)(y) as required. DOCUMENT time entered and reason.
- 4.1.2.20 ENSURE Accident Assessment Team notifies the NRC and the Control Room of 10CFR50.54(x)(y) decisions. The TSC AAT is responsible for non-emergency related reportability.
- 4.1.2.21 AUTHORIZE Radiation Controls Coordinator to issue KI when appropriate.
- 4.1.3 Shift Change for Declared Emergencies [NOCS 10511]
- 4.1.3.1 The Emergency Coordinator is responsible to:
- ASSESS need for continued long-term support
  - IDENTIFY the emergency positions necessary for maintaining adequate response
  - ESTABLISH time for alternates to be at facility
  - REQUEST the individuals currently filling the position to contact their alternate
- 4.1.3.2 Individuals currently filling the position are responsible to:
- CONTACT alternate for relief and provide adequate instructions for safe relief
    - o Consider direction if radiological release occurring
    - o Consider sleep, food, transportation arrangements
    - o Apply AI-100 criteria
    - o Consider staggering the relief of positions
  - PROVIDE the name of the alternate to the EC
  - BRIEF the alternate thoroughly upon relief of actions taken and in-progress, summarizing the scenario and how their position is affected
- 4.1.4 Deactivation
- 4.1.4.1 DIRECT deactivation/termination of TSC/OSC after concurrence with the Control Room, EOF Director, State of Florida and NRC and as identified in EM-202.
- 4.1.4.2 DIRECT Control Room to make announcement that TSC is deactivated.
- 4.1.4.3 DIRECT TSC/OSC staff to ensure equipment and materials are returned to their pre-activation status, if possible, and SUBMIT documentation to Emergency Preparedness Staff.
- 4.1.5 Evacuation
- 4.1.5.1 EVACUATE the TSC/OSC based on:
- o Radiological data obtained by the Radiation Monitoring Team and recommendations of the Radiation Controls Coordinator.
  - o Inadequate ventilation (CO<sub>2</sub>/O<sub>2</sub>).
  - o Violent weather conditions.
  - o Other conditions warranting evacuation.
- 4.1.5.2 REVIEW Enclosure 5 prior to evacuation.
- 4.1.5.3 DETERMINE required staff needed based on plant conditions and RELOCATE to rooms adjacent to the Control Room as identified in Enclosure 6.

4.1.5.4 IF emergency teams are designated to relocate to the Control Complex  
THEN DIRECT them to the 124' elevation of the Control Complex.

4.1.5.5 IF flooding is projected,  
THEN TAKE precautions as outlined in Enclosure 5 and in EM-220.

## 4.2 Radiation Controls Coordinator

IF TSC is established at the Alternate TSC (Control Complex),  
THEN GO TO Enclosure 5 and 6 for setup and staffing guidance.

IF TSC is established at the EOF,  
THEN GO TO Enclosure 7 for TSC operation at the EOF.

IF TSC staffing size is inadequate to perform functions listed under Operation,  
AND Pre-Operation activities are complete,  
THEN, as a minimum, MAINTAIN responsibilities identified in Section 3.2.1 for TSC Operation.

### 4.2.1 Pre-Operation

4.2.1.1 BADGE IN at TSC Card Reader and PLACE name on TSC Staffing Board.

4.2.1.2 PERFORM the following as minimum functions to declare the TSC operational: (REFER TO EM-202 Enclosure 2)

- o DETERMINE Release Significance Category
- o DETERMINE radiological and chemistry matters affecting EALs and PARs.

### 4.2.2 Operation

4.2.2.1 Activation of Personnel (this should be performed as soon as minimum functions completed)

- ENSURE the required number, as identified on page 2 of Enclosure 2, of qualified Radiation Monitoring Team, Dose Assessment Team and Sample Team members are notified to respond to ensure coverage of:
  - o Dose projection
  - o Re-entry coverage
  - o Chemistry
  - o Environmental monitoring
  - o Dosimetry
- ASSIGN an individual to the Dose Assessment Ringdown in the Control Room to monitor radiological and meteorological data.
- ENSURE Status Board keeper is available for updating the Radiological Conditions Board and ENSURE the Release Significance Status is updated. REFER TO Enclosure 2 of EM-202.
- ASSIGN someone with extensive Health Physics experience to the Health Physics Network as a communicator when requested by the NRC.

4.2.2.2 DETERMINE TSC/OSC habitability (release in progress, met data, air monitoring system). If necessary, NOTIFY the EC to put the TSC/OSC ventilation into the emergency re-circulation mode.

4.2.2.3 OBTAIN needed procedures and logbook from file drawer and USE push-to-talk headsets as needed for contact with HP and Chemistry personnel.

4.2.2.4 PROVIDE weather data and release information to the Communication/Report Coordinator immediately upon request, to ensure no delay in notification occurs.

4.2.2.5 IF release in progress,  
THEN OBTAIN information on release and core status from REDAS, SPDS/RECALL or PICS,  
AND UPDATE Release Significance Category.

4.2.2.6 ENSURE the setup and testing of monitoring and counting equipment is taking place and qualified individuals are available to operate and interpret the data from this equipment.

- 4.2.2.6.1 ENSURE monitoring of TSC/OSC for radiological, O<sub>2</sub> and CO<sub>2</sub> (when TSC in Recirc) is accomplished and EVALUATE Total Risk associated with ventilating with outside air, in accordance to EM-210A, Section 4.2.
- 4.2.2.7 ENSURE Emergency Teams and security personnel have TLDs, and area TLDs are established throughout the TSC/OSC.
- 4.2.2.8 SEND Health Physics Technicians to EOF for monitoring as requested by EOF Radiation Controls Manager.
- 4.2.2.9 REQUEST Sample Team dispatches through TSC Repairs Coordinator. Contact OSC Chemistry Coordinator, as needed, to discuss dispatch.
- 4.2.2.10 INITIATE log of activities to document times and results of significant actions.

**NOTE**

The TSC/OSC ventilation should be placed into the emergency re-circulation mode at the discretion of the EC or Radiation Controls Coordinator.

- 4.2.2.11 IF the outside iodine concentration is estimated to be >1 DAC,  
THEN CONSIDER placing the TSC ventilation into the emergency recirculation mode.

**CAUTION**

Individuals who have known allergies to iodide substances such as shell fish, and adults with Graves, nodules, or Hashimoto's shall NOT be issued KI.

- 4.2.2.12 ISSUE KI as needed when the calculated dose of 25 Rem to the thyroid is determined.
- 4.2.2.12.1 ISSUE one KI tablet to each individual who is to receive KI. One tablet equals 130 mg. RTM-96 recommended dosage is 130 mg./day for a minimum of three days.
- 4.2.2.12.2 DOCUMENT in TSC Radiation Controls Coordinator log or OSC Health Physics Coordinator log the following:
- (a) Lot number and expiration date of the KI administered.
  - (b) Name and badge number of each individual the KI was given.
  - (c) IF a bottle of KI tablets is given to a Supervisor for distribution,  
THEN the Supervisor is responsible for documenting names of those receiving KI.
  - (d) Name of any individual declining to take the KI and the reason for NOT taking the drug.
- 4.2.2.13 UPDATE Emergency Coordinator with the following information: [NOCS 13040]
- Radiological aspects of the event, including EAL and PARs based on radiological conditions
  - TSC/OSC area dose rate information
  - Potential reclassification of the event based on radiological conditions
  - When TSC/OSC ventilation should be in recirculation based on radiological, CO<sub>2</sub> or O<sub>2</sub> results.
- 4.2.2.14 UPDATE Accident Assessment with the following information as plant conditions change:
- Radiation Monitor readings and assessments
  - Release status (magnitude, direction, relative severity)
  - RCS
    - Radionuclide composition
    - Chloride concentration
    - pH
    - Dissolved Hydrogen concentration
    - Boron concentration
  - Containment Atmosphere - Radionuclide composition
  - Sample results for estimation of core damage

- 4.2.2.15 PROVIDE ongoing technical and administrative direction to OSC Chemistry and Health Physics Coordinators.
- 4.2.2.16 ENSURE TSC staff is aware of offsite radiological conditions and meteorological data.
- 4.2.2.17 REVIEW Enclosure 3 for possible NRC Incident Response personnel functions, and provide assistance as needed.
- 4.2.2.18 PROVIDE the Security representative with radiological conditions to ensure Security patrols are properly protected.
- 4.2.2.19 IF Security Personnel are required to evacuate,  
THEN DISCUSS suspension of Safeguards with EC.
- 4.2.2.20 ENSURE the status Board is updated.
- 4.2.2.21 ENSURE TLDs are issued to TSC/OSC personnel (non-team members) as time permits.
- 4.2.2.22 IF non-essential personnel are evacuated from the Site,  
AND personal vehicles are contaminated,  
THEN COORDINATE washdown stations with EOF.

**NOTE**

Normally the State of Florida or local government is responsible for off-site emergency responders.

- 4.2.2.23 IF off-site agencies respond inside the Owner Controlled Area (local law enforcement, National Guard),  
THEN ENSURE they receive proper dosimetry (TLD, Dosimeters), Health Physics coverage,  
AND, as appropriate, KI.



### 4.3 Accident Assessment Coordinator

IF TSC is established at the Alternate TSC (Control Complex),  
THEN GO TO Enclosure 5 and 6 for setup and staffing guidance.

IF TSC is established at the EOF,  
THEN GO TO Enclosure 7 for TSC operation at the EOF.

IF TSC staffing size is inadequate to perform functions listed under Operation,  
AND Pre-Operation activities are complete,  
THEN, as a minimum, MAINTAIN responsibilities identified in Section 3.2.1 for TSC Operation.

#### 4.3.1 Pre-Operation

4.3.1.1 BADGE IN at TSC Card Reader and PLACE name on TSC Staffing Board.

4.3.1.2 PERFORM the following as minimum functions to declare the TSC operational:

- o DETERMINE Critical Safety Functions
- o IDENTIFY plant status to include impact of EALs or PARs through use of either SPDS, phone link established with Control Room, or from EC turnover with Control Room.

#### 4.3.2 Operation

4.3.2.1 ENSURE additional AAT members are activated and, as needed, Fire Brigade personnel, as identified on page 2 of Enclosure 2.

4.3.2.2 PROVIDE plant status for the Florida Nuclear Plant Emergency Notification Form as requested by Communication/Report Coordinator.

4.3.2.3 ENSURE Mitigation Strategy Priority Board is updated as needed.

4.3.2.4 REFER to EM-225 and COORDINATE Accident Assessment Team activities to implement the following:

- o INITIATE log of activities to document times and results of significant actions.
- o ENSURE EC informed of AAT activities and developments in plant status, especially those that may impact Emergency Action Levels and Protective Action Recommendations.
- o ENSURE Control Room is informed of changing radiological conditions and ongoing TSC activities, including accident mitigation priorities.
- o PROVIDE engineering support to develop mitigation strategies.
- o ENSURE direct communications with AAT at the EOF is established as needed.
- o MAINTAIN Critical Safety Function Status Board.
- o ENSURE the EC and Radiation Controls Coordinator informed of core status.
- o ENSURE the effects of proposed maintenance activities and operational manipulations on plant equipment are evaluated.
- o REQUEST operator support through Repairs Coordinator once operators established in OSC.
- o EVALUATE and develop mitigation strategies using the CR-3 Severe Accident Guideline during a Severe Accident.
- o REQUEST repair activities through TSC Repairs Coordinator.

#### **4.4 Repairs Coordinator**

IF TSC is established at the Alternate TSC (Control Complex),  
THEN GO TO Enclosure 5 and 6 for setup and staffing guidance.

IF TSC is established at the EOF,  
THEN GO TO Enclosure 7 for TSC operation at the EOF.

IF TSC staffing size is inadequate to perform functions listed under Operation,  
AND Pre-Operation activities are complete,  
THEN, as a minimum, MAINTAIN responsibilities identified in Section 3.2.1 for TSC Operation.

#### **4.4.1 Pre-Operation**

4.4.1.1 BADGE IN at TSC Card Reader and PLACE name on TSC Staffing Board.

4.4.1.2 PERFORM the following as minimum functions to declare the TSC operational:

- DETERMINE status of on-going maintenance activities and emergency teams in field, if applicable.
- PERFORM as OSC Manager, as necessary, until OSC Manager arrives.

#### **4.4.2 Operation**

4.4.2.1 Activation of Personnel (this should be performed as soon as minimum functions completed)

- ENSURE the required number, as identified on page 2 of Enclosure 2, of qualified Emergency Repair Team members are notified to respond to ensure coverage.
- ENSURE OSC Manager and OSC Maintenance Coordinator are available to staff the OSC.

4.4.2.2 IF TSC/OSC needs to be put into emergency recirculation mode (per Emergency Coordinator, Radiation Controls Coordinator),  
THEN ENSURE emergency recirculation mode is established.

4.4.2.3 OBTAIN needed procedures and logbook from file drawer and ESTABLISH communication on headsets as needed with OSC Manager. DOCUMENT times and results of repair activity in logbook.

4.4.2.4 IDENTIFY equipment repair priorities as established by the TSC (EC and Accident Assessment) and COORDINATE with OSC Manager for implementation.

- An OSC Request Form is filled out by AAT and approved by AAT Coordinator
- TSC Repairs Coordinator reviews form and gives copy to OSC Manager for implementation
- OSC Manager fills out ETA form based on OSC Request Form or attaches OSC Request to ETA
- OSC Manager cross references form on Dispatch Board

4.4.2.4.1 UPDATE TSC Priority and Equipment Out-of-Service board.

4.4.2.5 NOTIFY the OSC Manager for Repair Team, Sample Team, and Operator dispatch as requested by the TSC.

4.4.2.6 ENSURE requests for operator dispatch with Teams is cleared with the Accident Assessment Coordinator before dispatch.

4.4.2.7 ENSURE the Emergency Coordinator and Accident Assessment Coordinator are immediately aware of major plant repairs.

4.4.2.8 MAINTAIN awareness of OSC Team Activity and ensure OSC repair status is properly updated on the TSC display of Team status.

4.4.2.9 ENSURE the Emergency Coordinator concurs with Team dispatch.

#### 4.5 Communication/Report Coordinator

IF TSC is established at the Alternate TSC (Control Complex),  
THEN GO TO Enclosure 5 and 6 for setup and staffing guidance.

IF TSC is established at the EOF,  
THEN GO TO Enclosure 7 for TSC operation at the EOF.

IF TSC staffing size is inadequate to perform functions listed under Operation,  
AND Pre-Operation activities are complete,  
THEN, as a minimum, MAINTAIN responsibilities identified in Section 3.2.1 for TSC Operation.

##### 4.5.1 Pre-Operation

4.5.1.1 BADGE IN at TSC Card Reader and PLACE name on TSC Staffing Board.

4.5.1.2 PERFORM the following as minimum functions to declare the TSC operational:

- o Ability to PREPARE Florida Nuclear Plant Emergency Notification Form, as necessary (also referred to as State Form).
- o Ability to PREPARE Reactor Plant Event Notification Worksheet, as necessary.

4.5.1.3 OBTAIN needed procedures and logbook from file drawer and make copies of Florida Nuclear Plant Emergency Notification Form and NRC Reactor Plant Event Notification form Enclosures from EM-202 for use as needed.

##### 4.5.2 Operation

4.5.2.1 NOTIFY additional communicators, as identified on page 2 of Enclosure 2, for support. (This should be performed as soon as pre-operation functions completed)

4.5.2.2 OBTAIN times of last State and NRC notification from EC, Administrative Support or from copies on FAX machine, and be prepared for next report.

4.5.2.3 MAINTAIN Notifications Board and ENSURE updates are timely.

4.5.2.4 REQUEST plant conditions from Accident Assessment, if NOT on board, and REQUEST weather data and release data for Florida Nuclear Plant Emergency Notification Form from Accident Assessment and Radiation Controls.

4.5.2.5 ENSURE the Florida Nuclear Plant Emergency Notification Form is prepared as required, following guidelines associated with form and faxing forms to Group 1. PROVIDE accurate form information for EC approval (time, date, classification, wind direction, release information, protective actions and description of EAL).

4.5.2.6 PREPARE Reactor Plant Event Notification Worksheet, as needed.

4.5.2.7 ENSURE the following EM-202 notifications and updates are documented: [NOCS 21207, 10020, 10516]

- State notification and updates (via SWPT, Commercial line, ESATCOM or LGR)
- NRC notification and updates via ENS
- Resident NRC notification (if NOT previously done by Control Room)
- Notification of event and updates to Units 1,2,4,5 (EM-202, Enclosure 5)
- Notification of ANI insurance that CR3 is in an emergency declaration
- Notification to Risk Management to notify NEIL. It is acceptable to leave voice message with Risk Management and ask them to return call to you at 352/795-5078 (TSC direct line by Security), however, follow-up with Risk Management is essential if they do not return your call within an hour.

#### NOTE

Once NRC is on ENS phone continuously, Reactor Plant Event Notification Worksheet forms are NO longer required to be filled out.

- 4.5.2.8 IF NRC requests ENS/NRC Communicator to stay on the line for operational updates, THEN ENSURE the Accident Assessment Coordinator appoints someone who has extensive operational experience and is well versed on the emergency condition. [NOCS 10528, 96042]
- 4.5.2.9 ENSURE once EOF is operational, the TSC/EOF Ringdown between the EOF and TSC is established for communicating plant status, TSC actions, EOF actions, State and County actions. UPDATE the EC and boardkeeper on Protective Action, State and County actions, as significant information is received from the EOF.
- 4.5.2.10 ENSURE proper turnover to EOF for State notifications.
- 4.5.2.11 INITIATE log of activities to document times and results of significant actions.
- 4.5.2.12 EVALUATE needs of Communications/Report Preparation personnel once EOF is operational and dismiss as necessary for future relief shift.

#### 4.6 Security Coordinator

IF TSC is established at the Alternate TSC (Control Complex),  
THEN GO TO Enclosure 5 and 6 for setup and staffing guidance.

IF TSC is established at the EOF,  
THEN GO TO Enclosure 7 for TSC operation at the EOF.

IF TSC staffing size is inadequate to perform functions listed under Operation,  
AND Pre-Operation activities are complete,  
THEN, as a minimum, MAINTAIN responsibilities identified in Section 3.2.1 for TSC Operation.

##### 4.6.1 Pre-Operation

4.6.1.1 BADGE IN at TSC Card Reader and PLACE name on TSC Staffing Board.

4.6.1.2 ENSURE card readers are used upon entry to TSC/OSC during emergency conditions to provide accurate accountability throughout the emergency. Exit from TSC/OSC during emergency conditions is established through OSC Emergency Team Authorization forms. ESTABLISH manual accountability if card readers are NOT working.

##### 4.6.2 Operation

4.6.2.1 Activation of Personnel (this should be performed as soon as minimum functions completed)

- ENSURE proper Security staffing to perform access control, personnel accountability, and badging of external responders.
- CALL IN additional TSC/OSC support as requested.

4.6.2.2 OBTAIN logbook and procedures as necessary from file drawer and INITIATE log of activities to document times, actions and results.

4.6.2.3 ESTABLISH and MAINTAIN contact with Security personnel and Main Assembly Area Supervisor, as appropriate.

4.6.2.4 NOTIFY Security personnel of Site Area Emergency and ENSURE:

- EOF pagers are initiated, unless informed otherwise
- Announcement is made for evacuation of Protected Area
- Security at Site Administration Building makes SAE announcement in the building and prepares for assembly of plant personnel

4.6.2.5 NOTIFY EC of evacuation status and accountability of CR-3 and Units 1, 2, 4 and 5. Protected Area Accountability must be completed within 30 minutes of Site Area Emergency evacuation.

4.6.2.6 DETERMINE coordination efforts needed by Security supervision dispatched to perform functions associated with the Main Assembly Area Supervisor.

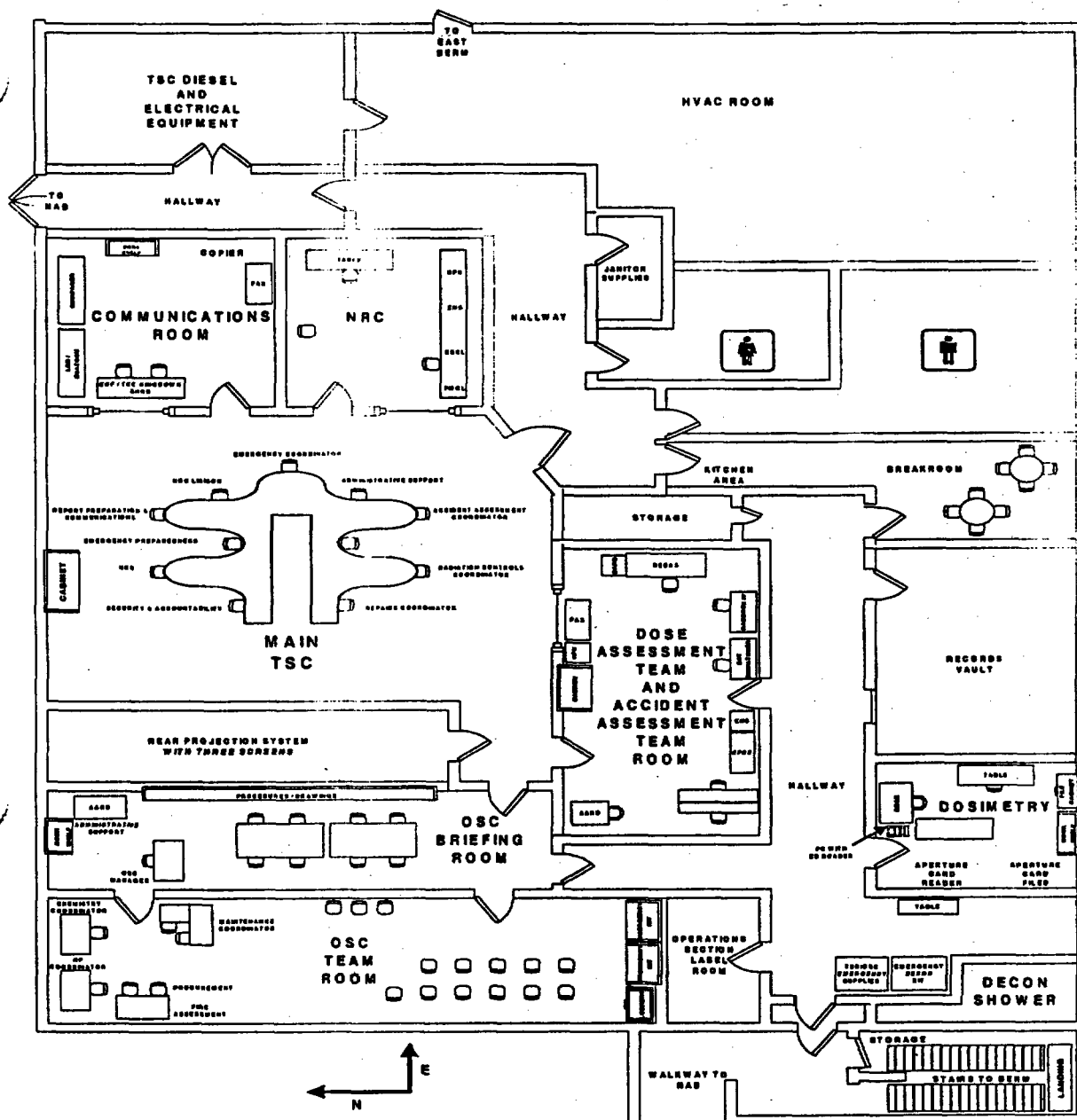
4.6.2.7 ENSURE Security personnel inform the TSC immediately when medical response occurs.

4.6.2.8 ENSURE Security personnel maintaining posts or responding to an emergency scene during radiological conditions are coordinated with the Radiation Controls Coordinator for Radiation Monitoring Team coverage.

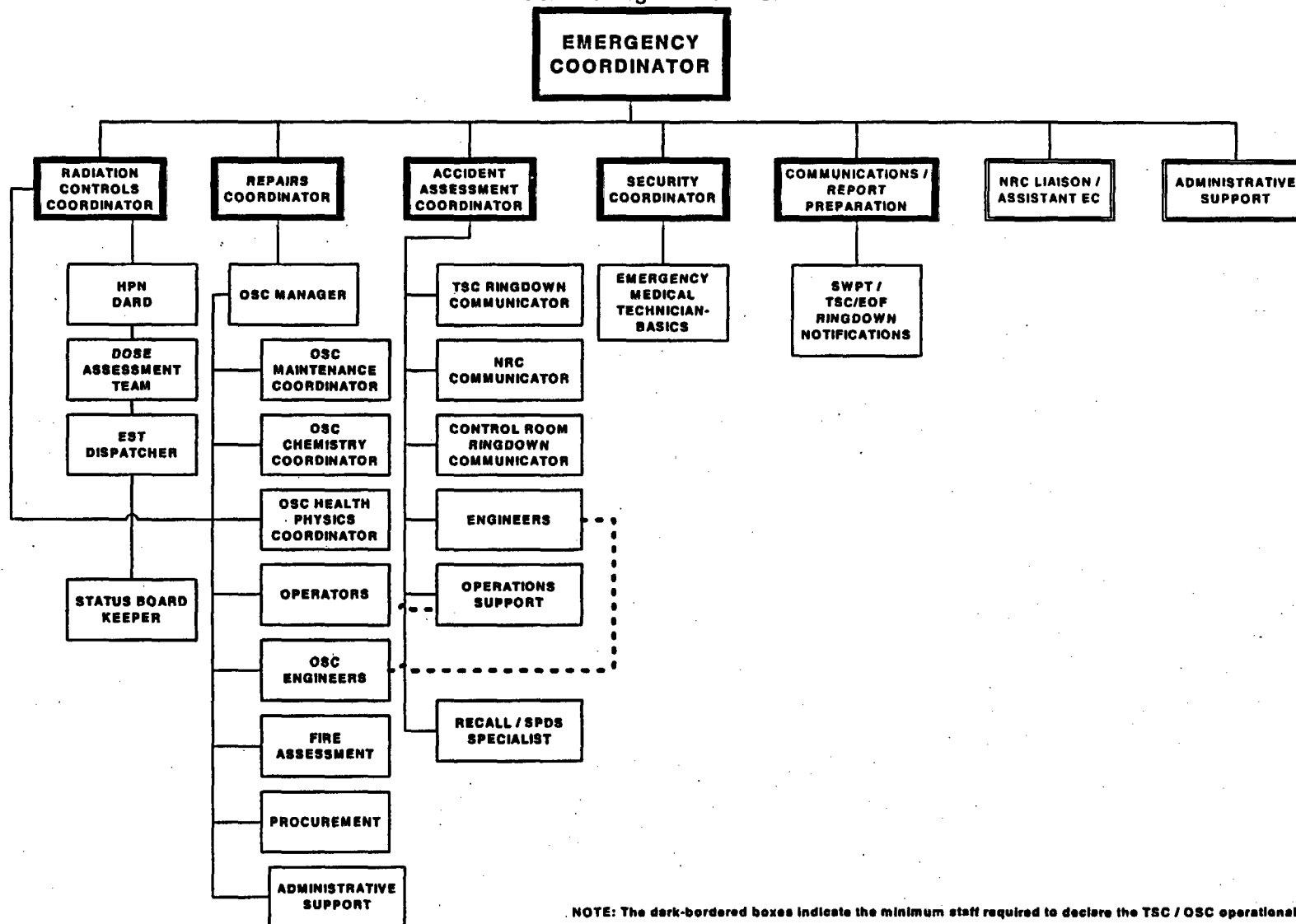
4.6.2.9 INFORM Security personnel of the overall radiological conditions of the plant to include instrumentation, TLDs, and protective clothing as indicated by the Radiation Controls Coordinator.

- 4.6.2.10 IF suspension of Safeguards per Security Plan is required,  
THEN COORDINATE with EC,  
AND ENSURE 10CFR50.54(x)(y) is invoked.
- 4.6.2.11 IF suspension of Safeguards has been invoked,  
AND Security personnel have been evacuated or staged in the Control Complex,  
THEN OBTAIN key for OSC Team dispatch into locked plant areas.
- 4.6.2.12 DETERMINE if additional Personnel Protective Equipment (PPE) is needed by OSC personnel.
- 4.6.2.13 IF OSC Manager determines additional PPE is needed,  
THEN REQUEST Security bring visitor PPE supplies to OSC.
- 4.6.2.14 In the event of injury, ENSURE notification of injured individual's family (s) is made. This is normally performed by the injured individual's Supervisor.

## TSC/OSC Floor Plan



TSC/OSC Organizational Chart





**TSC/OSC Staffing**  
[NOCS 24060, 63010, 1870, 6100]  
(Phone numbers listed in Emergency Rosters)

FUNCTION	TSC Recommended	REQUIRED (Augmentation Time)
Emergency Coordinator	1	45 minutes
Administrative Support	1	
NRC Liaison/Assistant Emergency Coordinator	1	
*Emergency Preparedness	1	
*State/NRC Form Preparation	1	45 minutes
TSC/EOF Ringdown Communicator	1	60 minutes
*SWPT Communicator (in CR until TSC Operational)	1	30 minutes
Repairs/Maintenance	1	45 minutes
Radiation Controls	1	30 minutes
HPN Communicator	1	
ESV Dispatcher	1	
*Dose Assessment Team	1-3	
Accident Assessment Coordinator (core thermal/hydraulics)	1	30 minutes
Accident Assessment Communicator	3	
Engineer (electrical/mechanical) (can be filled at EOF)	2	60 minutes
Security	1	45 minutes
NRC Resident	1	
Other NRC (NOT part of initial staffing)	4	

\*Once the EOF is operational and these functions are supported at the EOF, TSC function can be discontinued.

**Operational Support Center**

	Required Coverage			Recommended Additional
	On-Shift	30 minute	60 minute	
Emergency Teams				
Rad. Monitoring Team (Perform in-plant Surveys) **Other shift personnel able to assist inplant/out of plant Surveys/access control/HP coverage/ personnel monitoring/dosimetry)	1 HP Tech 2**	1 5	1 5	
Sampling Team (chemistry/radio-chemistry)	1		1	1
Emergency Repair Team				
Electrical ** Provided by other shift personnel	1**	1	1	
Instrument/Controls Technician		1		
Mechanical **Provided by other shift personnel	1**		1	1
Operators (when available)				1-2
OSC Manager				1
OSC Health Physics Coordinator				1
OSC Chemistry Coordinator				1
OSC Maintenance Coordinator				1
Fire Assessment				1
Procurement				1
Admin Support				1
Engineer (Fuel or Engineering support as needed)				1
First Aid **Provided by other Shift personnel	1**		1	
Fire Brigade (and for rescue and as needed)	5	5	5	

**Possible NRC Incident Response Team Members at TSC/OSC**

If CR-3 enters a GENERAL EMERGENCY, and possibly a SITE AREA EMERGENCY, the NRC sends an Incident Response Team. The following represents possible NRC positions that could be at the TSC/OSC and the CR-3 counterpart.

**Senior Resident Inspector/Operations Coordinator** - Verifies accuracy of information provided by licensee. Establishes open line from TSC to NRC. Briefs the NRC Site Team Leader. Will want to be briefed on plant status, radiological conditions, special instructions before proceeding into the 10-mile EPZ. Establishes contact and manages other NRC on-site.

This individual stays at the TSC and coordinates NRC functions through NRC Liaison or Emergency Coordinator.

**Reactor Safety/Operations Coordinator** Needs overall status of facility - sequence and details of the events in progress, classification of the event, emergency core cooling, ability to achieve/maintain adequate core cooling, degree of core damage or potential damage, potential consequences, status of safety related or important to safety equipment including ultimate heat sink, vital shutdown equipment and vital electrical distribution, containment integrity, licensee actions taken or to be taken to mitigate the consequences.

CR-3's counterpart is the "Accident Assessment Team."

**Reactor Safety Counterpart Link (RSCL) Or Emergency Notification System (ENS) Communicator** - One or the other will be at the TSC, NOT both. NRC management has their discussions over the RSCL by reporting reactor safety-related recommendations, decisions and implementation status to headquarters.

As CR-3 supplies information over ENS, NRC monitors the exchange of the reactor safety technical data. The NRC RSCL communicator is stationed in NRC office or with the Accident Assessment Team.

**Radiation Safety Coordinator** - Monitors CR-3s radiological survey program, actions to ensure radiation protection of emergency workers, evaluates and recommends protective measures for in-plant personnel, ensures radiological safety of NRC emergency workers, assess and report to NRC status on in-plant surveys, monitored releases, radwaste systems, licensee and NRC personnel exposures.

CR-3's counterpart is the Radiation Controls Coordinator or the OSC Health Physics Coordinator.

**Health Physics Specialist/In-Plant Coordinator** - Assesses status of on-site/in-plant radiological systems and equipment, monitors HP activities, evaluates on-site protective measures and makes appropriate recommendations, monitors in-plant surveys, releases, radwaste systems.

CR-3's counterpart is the OSC Health Physics Coordinator.

**Health Physics Network (HPN) Monitor Or Protective Measures Counterpart Link (PMCL)** - One or the other is at the TSC, NOT both. NRC management holds discussions over the PMCL. CR-3's HPN talker provides radiological data. NRC monitors and requests information such as: plant conditions as they relate to source term, source term information, meteorological data and forecasts, dose projections, survey data, contamination levels, sample results, personnel exposures.

NRC monitors the PMCL from the NRC Office.

## QUESTIONS NRC MAY ASK OVER ENS OR HPN PHONE

ENS/HPN	Is there any change to the classification of the event? If so, what is the reason? (Accident Assessment/Maintenance)
ENS	What is the ongoing/imminent damage to the facility, including affected equipment and safety features? (Accident Assessment /Maintenance)
ENS/HPN	Have toxic or radiological releases occurred or been projected, including changes in the release rate? If so, what are the actual or currently projected on-site and off-site releases, and what is the basis of assessment? (Dose Assessment should be discussing with NRC on HPN line. If no one on HPN line, then review information on State Notification Form or request information from Dose Assessment)
ENS/HPN	What are the health effects/consequences to on-site/off-site people? How many on-site/off-site people are/will be affected and to what extent? (TSC Dose Assessment or EOF Staff)
ENS/HPN	Is the event under control? When was control established, or what is the planned action to bring the event under control? What mitigative actions are currently underway or planned? (Accident Assessment)
ENS/HPN	What on-site protective measures have been taken or planned? (State Notification Form)
ENS/HPN	What off-site protective actions are being considered or have been recommended to State/local officials? (State Notification Form)
ENS	What is the status of State/local/other Federal agencies' responses, if known? (TSC Communicator can obtain information from EOF or request EOF to put someone on ENS phone at EOF. This information is more easily obtained from EOF personnel)
ENS	If applicable, what is the status of public information activities, such as alarm, broadcast, or press releases (regulate/State/local/other Federal agencies)? Has the Joint Information Center (Emergency News Center at EOF) been activated? (TSC Communicator can obtain information from EOF or request EOF to put someone on ENS phone at EOF. This information is more easily obtained from EOF personnel)
HPN	What are the current meteorological conditions? (Dose Assessment Team)
HPN	What are the dose and dose rate readings on-site and off-site?

THERE IS A "GROUP" UNDER THE RECALL DISPLAY THAT CAN BE SET UP TO DISPLAY ERDS - THIS PROVIDES THE SAME INFORMATION THE NRC IS SEEING OVER ERDS.

## Facility Turnover/Briefing Worksheet

## A. STATUS OF EMERGENCY PLAN IMPLEMENTATION

1. TIME: Alert \_\_\_\_\_ Site Area Emergency \_\_\_\_\_ General Emergency \_\_\_\_\_
2. EALs met (EAL number or description). \_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_
3. Time SWPT Notification Due: \_\_\_\_\_ Time NRC Notification Due: \_\_\_\_\_
4. Release Significance Category: NR ☐ <NOL ☐ NS ☐ PAG ☐
5. EM-204A Completed: Yes ☐ NO ☐
6. EM-202 EC guide completed through step \_\_\_\_\_ (fax copy)
7. Energy Complex protective actions:  
CR3 Protected Area: None ☐ Assembly ☐ Evacuated ☐  
Units 1,2,4, 5 and Energy Complex: None ☐ Assembly ☐ Evacuated ☐
8. Offsite Protective Action Recommendations (PARs) made: \_\_\_\_\_  
\_\_\_\_\_
8. EOP status (include NLO dispatches): \_\_\_\_\_  
\_\_\_\_\_

B. CORE STATUS: Degrading ☐ Stable ☐ Improving ☐

1. Is the reactor shutdown? Yes ☐ No ☐
2. Is the core adequately cooled? Yes ☐ No ☐
3. Is Containment intact? Yes ☐ No ☐
4. Electrical Power Status:  
Off-Site Power Available? Yes ☐ No ☐  
ES Bus Energized? Yes ☐ No ☐  
Emergency Diesel Generator Available? Yes ☐ No ☐  
DC Power Available? Yes ☐ No ☐
5. Control Complex Status:  
Ventilation/Cooling Available? Yes ☐ No ☐  
Necessary instrumentation Available? Yes ☐ No ☐
6. Other Plant Conditions/Challenges: \_\_\_\_\_  
\_\_\_\_\_
7. Request Control Room to make announcement that TSC is Operational.

## Contingency Plan for Securing TSC/OSC and Establishing An Alternate TSC/OSC

**EQUIPMENT AVAILABLE IN CONTROL ROOM:****CHECK**

- a. Commercial Telephone System
- b. Company Microwave
- c. Dose Assessment Ringdown Telephone
- d. State Hot Ringdown
- e. Florida ESATCOM
- f. Emergency Notification System (ENS)
- g. PAX System
- h. Accident Assessment Ringdown
- i. Portable Transceivers (as assigned by the EC)
- j. PICS
- k. RADDOSE IV (on computer in the office adjacent to the Control Room)
- l. Telecopy machine (Fax)

**BEFORE GOING TO ALTERNATE LOCATION (ADJACENT TO CONTROL ROOM)**

- a. IDENTIFY minimum staff necessary based on plant conditions. \_\_\_\_\_
- b. CONSIDER taking items identified with "\*" on list of TSC cabinet. \_\_\_\_\_
- c. TAKE satellite phone(s) (located in TSC cabinet) if conditions warrant. \_\_\_\_\_
- d. TAKE LGR to alternate location and connect in SSO office outside Control Room. \_\_\_\_\_
- e. TAKE Quickpager unit located in Communications room to alternate location. \_\_\_\_\_

**STEPS TO SECURE TSC/OSC IF STORM SURGE IS EXPECTED**

- a. PLACE high value items on tables:
  - Computers and peripherals \_\_\_\_\_
  - Communication equipment \_\_\_\_\_
  - Anything else that can be placed on tables \_\_\_\_\_
- b. VERIFY flood protection is placed around TSC/OSC (EM-220). \_\_\_\_\_
- c. ENSURE appropriate TSC equipment is de-energized (EM-220, Encl. 2). \_\_\_\_\_
- d. DISABLE auto start on diesel by selecting the "Auto/Test" switch to the center "Off" position on the generator Kohler Controller, AND notify Security. \_\_\_\_\_
- e. RELOCATE to Alternate TSC and ENSURE plant personnel/Security is informed of new TSC/OSC location. \_\_\_\_\_

**Alternate TSC/OSC Control Complex Area Setup and Staffing Guidelines  
[NOCS 24130]**

**CAUTION**

Once the Control Complex is placed in the Emergency Recirculation Mode, and the Alternate TSC/OSC is operational, O<sub>2</sub> and CO<sub>2</sub> monitoring must be performed according to EM-210A to ensure habitability.

**OPERATION OF THE ALTERNATE TSC**

The focus for Alternate TSC operation is to assume responsibility for emergency declarations, off-site notifications, and PAR decision making. Traffic into the Control Room must be kept to a minimum.

This enclosure identifies areas outside the Control Room for Alternate TSC operation. Minimum requirements as identified in Section 3.2.1 should be maintained. Additional responsibilities as identified in Section 4.0 are implemented as necessary.

**OPERATIONS BREAK AREA**

**ACTIVITY** - Serves as the main TSC conference room

**PERSONNEL** - Emergency Coordinator, Radiation Controls Coordinator, Accident Assessment Coordinator, Repairs Coordinator, Report Preparation/Communications Coordinator, Security Coordinator, Accident Assessment Ringdown Communicator and NRC representative.

**SETUP** - Arrange TSC functions around the table, adding chairs as needed. The Accident Assessment Ringdown telephone must be established.

**OPERATION** - Required TSC function personnel need to access information from the Control Room to keep the EC and other functions informed. The Accident Assessment Ringdown must be maintained. This provides communication with the Control Room and is monitored by the EOF Accident Assessment Team.

**AREA ADJACENT TO THE BREAK ROOM**

**ACTIVITY** - Communication by PAX with emergency team personnel located on 124' elevation. This is also a possible work area for Accident Assessment personnel.

**SETUP** - NO setup required. One PAX phone in area.

**OPERATION** - Repairs Coordinator maintains contact with Emergency Teams located on the 124' elevation by radio or at PAX number 237. Communication to teams located on the 124' elevation should be established and maintained as much as possible to keep them informed of changing plant conditions. As teams are requested to be dispatched, personnel should be identified and briefed on the 124' elevation.

**ADMIN. SUPPORT OFFICE OUTSIDE OF CONTROL ROOM**

**ACTIVITY** - Dose assessment, dispatch of EST

**PERSONNEL** - Dose Assessment Team and EST Dispatcher

**SETUP** - Access REDAS and RADDose IV from computer in room

**OPERATION** - Perform dose projections, as needed, until the EOF DAT is operational. The phone can be used for contacting the EOF DAT for communication with the Off-site RMT. Update TSC staff as needed for dose projections and Environmental Survey Team results.

**SUPERINTENDENT SHIFT OPERATION OFFICE**

**PERSONNEL** - To be used as needed by TSC personnel.

**SETUP** - NO setup required. REDAS accessible on this computer. Office is location for backup LGR connection.

**124' ELEVATION**

**ACTIVITY** - Team Staging Area.

**PERSONNEL** - Fire Brigade, Sample Team, Emergency Repair Team, Radiation Monitoring Team (on-site), Security.

**SETUP** - Setup may include chairs, tables and emergency kits as needed.

**OPERATION** - The OSC Manager remains on 124' elevation with emergency teams. He should assign someone to the PAX phone to remain in communication with the Alternate TSC. Teams are dispatched as needed according to EM-104. OSC Coordinators may be on 124' with teams or may reside across from the Control Room, as needed.

**CONTROL ROOM - (See Enclosure 5 for available communication/equipment)**

**ACTIVITY** - State Warning Point notifications on SHRD, NRC Operations Center notifications on ENS, Accident Assessment Ringdown communications to Alternate TSC conference room, Dose Assessment Ringdown communications to EOF, SPDS data gathering.

**PERSONNEL** - Communications/Report Preparation, Dose Assessment communicator, Accident Assessment.

**SETUP** - Use Control Room equipment, as needed. NO setup required other than headsets if desired.

**OPERATION** - Alternate TSC personnel enter the Control Room as necessary and use the designated equipment to complete their duties. Once EOF is operational, State notification and Dose Assessment responsibilities transfer. If unable to access SPDS on other computers, Accident Assessment personnel can observe plant parameters on the SPDS computer in Computer Main Cabinet #5 or on the main control board as accessible.

# REMOTE TSC Operation at the EOF

## NOTE

EOF personnel are also activated during a security event to support TSC personnel. EOF personnel establish operation in Room 119 and 122, with EOF Technical Support personnel assisting TSC Accident Assessment Team in Room 124 as needed. EOF personnel have separate functions than TSC, however, communication is essential to ensure status of security events is known by everyone. Requesting EOF personnel to assist with TSC functions is acceptable until the EOF is required to be operational at a Site Area Emergency.

TSC/EOF Counterpart positions:

TSC	EOF
Emergency Coordinator	EOF Director
Accident Assessment Coord.	Technical Support Coord.
Report/Communications Coord.	Report Preparation Director
Security Coord.	Security Coord.
Radiation Controls Coord.	Radiation Controls Manager
Repairs Coord.	Technical Support Coord.

1. IF TSC personnel are sent to the EOF, most likely due to a Security emergency, THEN TSC personnel are to report to Room 124.
2. IF EOF personnel have NOT setup the room for TSC personnel, THEN SETUP room in accordance with TSC setup instructions located in cabinet labeled "TSC SETUP SUPPLIES". Remote TSC setup instructions are addressed in EM-401, Setup of the EOF, Enclosure 9.
3. OBTAIN individual position specific manual, name plate, briefing plaque, logbook, and phones located in TSC SETUP SUPPLIES cabinet in Room 124. Additional procedures, drawings, manuals, etc. are located as indicated on cabinet door poster.
4. REFER to Facility Phone Books for phone numbers associated with Control Room, EOF and TSC personnel. Other communication locations at EOF are as follows:

Communication	Location
Accident Assessment Ringdown	Technical Support area Room 124
ENS (NRC may request Security Representative man the ENS phone)	Room 144 (Radio Room)
ESATCOM	Room 136 (PAR Conference Room)
Fax	Room 144 (Radio Room)
HPN	Dose Assessment Room
PAX 382	Room 124 – Part of Setup Instructions
State Hot Ringdown	Room 136 (PAR Conference Room)

5. DECLARE the TSC operational when required TSC personnel available, AND communication is established with the Control Room.



**NOTE**

A Security Safeguards Cabinet is located in Room 147 (behind the Emergency News Center). Security personnel have the combination for this cabinet. Security Information located in the bottom drawer of the 2-drawer Security cabinet includes: CR3 physical Security Plan; the Safeguards Contingency Plan, SS-206, Safeguards Contingency Events and a copy of the Large Area Fire Document.

6. **CONSIDER** the following for Security Events:
  - What onsite actions need to be accomplished or verified
  - Evacuation of Energy Complex status and Control Room access secured
  - Additional Emergency Response Organization support needed and location for additional stand-by for damage assessment
  - Security considerations identified in EM-202, Enclosure 3
7. **ASSIGN** someone to capture follow-up actions.
8. In addition to considerations for Security Event,  
**RETURN** to position specific instructions under Section 4.0.  
**AND PERFORM** Operation instructions as capabilities allow.

Changes and Reason

Procedure Section

Throughout

Changed Significant to Significance when referring to Release Significance Category

4.2.2.23

Add statement to ensure HP coverage for off-site agencies responding to emergency PRR 102461

4.3.2.3

Add step for Accident Assessment Coordinator to ensure mitigation strategy priority board is updated PRR 92958. Renumber following step.

4.6.2

Deleted direct reference to EMT's and changed to medical response as necessary. Renumbered Section 4.6 accordingly with Section 4.6.2.7 containing the reference for medical response.

Enclosure 4

Add reminder to request Control Room to make announcement that TSC is operational. Also added other plant conditions PRR 92958

Enclosure 7

Remove list of items found at EOF. This list has been placed on TSC cabinet doors. Add statement next to ENS phone that NRC may request that a Security representative man the ENS phone. Clarify items located in TSC cabinet. Added to NOTE that EOF assistance with TSC functions is appropriate until the EOF is required to be operational. Added new NOTE identifying location of Security Safeguards Cabinet and contents for Remote TSC. PRRs 102461, 105213