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

EMERGENCY PLAN IMPLEMENTING PROCEDURE

EM-103

**OPERATION AND STAFFING OF THE CR-3 CONTROL ROOM
DURING EMERGENCY CLASSIFICATIONS**

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1.0 PURPOSE

This procedure provides instructions for the operation and staffing of the CR-3 Control Room during emergency classifications at CR-3. [NOCS 12055]

2.0 DEVELOPMENTAL REFERENCES

- 2.1 10CFR50, Appendix E, Emergency Planning and Preparedness for Production and Utilization Facilities
- 2.2 10CFR50.47, Emergency Plans
- 2.3 AI-505, Conduct of Operations during Abnormal and Emergency Events
- 2.4 Control Room Habitability, NUREG-0737, Item III D.3.4
- 2.5 CR-3 Severe Accident Guideline
- 2.6 EM-102, Operation of the Technical Support Center
- 2.7 EM-104, Operation of the Operational Support Center
- 2.8 EM-202, Duties of the Emergency Coordinator
- 2.9 EM-210A, Duties of the Radiation Monitoring Team; CR-3 and Generating Complex Personnel and Area Monitoring
- 2.10 EM-225, Duties of the Technical Support Accident Assessment Team
- 2.11 HPP-409, Inventory and Availability of Emergency Supplies/Equipment
- 2.12 NEI 91-04, Revision 1, Severe Accident Issue Closure Guidelines
- 2.13 NUREG-0654, Criteria for Preparation and Evaluation of Radiological Emergency Response Plans and Preparedness in Support of Nuclear Power Plants
- 2.14 Radiological Emergency Response Plan

3.0 PERSONNEL INDOCTRINATION

3.1 Definitions

- 3.1.1 Re-entry – The return of personnel to an area evacuated during an emergency condition.
- 3.1.2 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 in the Rx vessel, Reactor Building, or the environment.

3.2 Responsibilities

- 3.2.1** The Superintendent Shift Operations directs Control Room activities and implements this procedure and all actions required to place the plant in as safe a condition as possible to preserve the safety and well being of the general public. [NOCS 6120]
- 3.2.2** The Superintendent Shift Operations is the Emergency Coordinator during the initial phase of the emergency until properly relieved by the Plant General Manager or designee. [NOCS 6120]
- 3.2.3** The Emergency Coordinator implements the requirements of EM-202.
- 3.2.4** The Emergency Coordinator assigns an individual the task of recording actions taken, information received, notifications made using procedures, log books or any other form of documenting the activities. Plant stabilization takes priority over assignment of these functions. [NOCS 96042, 10020, 10576, 96042]]
- 3.2.5** The Superintendent Shift Operations/Emergency Coordinator is responsible for authorizing the administration of Potassium Iodide (KI).
- 3.2.6** The Superintendent Shift Operations implements mitigation strategies developed and approved by the Technical Support Center (TSC) during a Severe Accident.
- 3.2.7** The Superintendent Shift Operations maintains contact with the Emergency Coordinator located at the TSC by various communication systems.

3.3 Limits and Precautions

- 3.3.1** RM-A5 monitors the Control Room atmosphere and places the Control Room ventilation system in a recirculation path, through charcoal and HEPA filters, when the high alarm set point on either the gas or iodine channel is reached.
- 3.3.2** If RM-A5 or RM-G1 become inoperable or unreliable, a Health Physics Technician provides additional monitoring equipment and gross iodine analysis. These emergency supplies are provided in the Emergency Kit located in the Control Room.
- 3.3.3** In the event Control Room personnel are unable to arrange for the purchase of food during emergency conditions, a seven day food supply is located and maintained on the 124' elevation of the Control Complex in locked cabinets with key control by the Control Room Supervisor. [NOCS 40743, 10539]

3.4 Equipment

The following equipment is available in the Control Room:

3.4.1 Communication Equipment

- a. State Hot Ringdown [State Warning Point Tallahassee (SWPT), [Bureau of Radiation Control, Orlando, Citrus and Levy County notification]
- b. Commercial Telephone System
- c. Florida Emergency Satellite Communication (ESATCOM) [SWPT, Citrus and Levy County notification]
- d. Emergency Notification System (ENS) [NRC]
- e. Florida Power Corporation (FPC) Microwave Telephone System
- f. Dose Assessment Ringdown Telephone
- g. PAX System
- h. Accident Assessment Ringdown [NOCS 10576, 10535]
- i. Portable Transceivers (as assigned by the Emergency Coordinator)
- j. Emergency Phone
- k. Telecopy Machine (FAX)
- l. Local Government Radio (LGR) Connection (Superintendent Shift Operation's office)

3.4.2 Other Emergency Related Equipment

RADDOSE IV (Dose Assessment on Support Specialist's computer in office outside the Control Room)

SPDS (Safety Parameters Display System)

PICS Archiver Retrieval (Plant Integrated Computer System stored data)

ERDS (Emergency Response Data System)

3.4.3 Emergency Kits

Control Room Emergency Kit contents are described in HPP-409, Enclosure 1. General contents include protective clothing, respirators, personnel monitoring devices and smear capability. [10539]

3.4.4 Potassium Iodide (KI)

The KI tablets are located at the Control Room Supervisor's station in the Control Room.

4.0 INSTRUCTIONS

4.1 General Control Room Staffing

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.

- 4.1.1 IF indication of high iodine concentrations are present in the Control Room (e.g., RM-A5 Particulate/Iodine channel off-scale),
THEN ADMINISTER KI tablets to personnel in the Control Complex,
AND NOTIFY the TSC of actions taken. [NOCS 62719, 62720]

NOTE

On-shift Operations Personnel may remain in their work areas to perform emergency actions during an Alert, as instructed by the Emergency Coordinator

- 4.1.2 During an Alert, Site Area Emergency, or General Emergency classification, on-shift Operations personnel REPORT to the Control Room; off-shift Operations personnel REPORT to the SSO for assignment.
- 4.1.3 ESTABLISH the following positions in the Control Room during an Alert, Site Area or General Emergency, as personnel become available and the TSC/OSC becomes operational, for monitoring key plant parameters and relaying information to and from the TSC as appropriate.

NOTE

The Control Room Accident Assessment Ringdown Communicator is designated by the TSC Accident Assessment Coordinator

- a. Control Room Accident Assessment Ringdown Communicator
- o ESTABLISH communication with the TSC Ringdown Communicator on the Accident Assessment Ringdown phone. [NOCS 10190, 13010]
 - o COMMUNICATE status of overall plant conditions and questions to the TSC Accident Assessment Team.
 - o COMMUNICATE instructions to Control Room Supervisors for mitigating actions as directed by the TSC Emergency Coordinator.
 - o COMMUNICATE instructions to Control Room Supervisors regarding actions to take to mitigate a Severe Accident, based on actions approved by the TSC Emergency Coordinator.
 - o COMMUNICATE Control Complex repair requests to TSC Ringdown communicator.

NOTE

The Dose Assessment Communicator is an alternate source of radiological and meteorological monitoring data. This individual is assigned to the Control Room by the Radiation Controls Coordinator, or designee, in the TSC.

b. Dose Assessment Communicator [NOCS 13010]

- COLLECT and EVALUATE radiological and meteorological information.
- TRANSMIT the data to the Dose Assessment Team via the Dose Assessment Ringdown phone.

4.1.4 LIMIT access to the Control Room to Plant Staff directly responsible for operation of the plant, technical advisors who may be requested to support operations, and NRC personnel. [NOCS 6120]

NOTE

A Control Complex emergency team is assigned from the OSC consisting of an electrician, I/C Technician, HVAC Mechanic, and a Health Physics Technician (HPT), as they become available. This team takes direction from the OSC Manager and remains in the Control Complex for repairs. [NOCS 10280]

NOTE

Reentry teams consist of at least two people including a HPT. The HPT assigned to the Control Room may be used for re-entry if an immediate reentry is made by an operator.

- 4.1.5 DETERMINE radiological conditions prior to re-entry.
- 4.1.6 ENSURE Control Room personnel follow the guidelines for exposure of emergency workers as outlined in EM-104, Section 3.3, during re-entry activities.
- 4.1.7 Health Physics Technicians ENSURE completion of Emergency Team Authorization form. An additional ETA form is not needed for Control Complex repairs.
- 4.1.8 IF the Control Complex exceeds, or personnel evacuate to or through an area which exceeds, acceptable contamination or airborne activity levels,
THEN DON respirators and protective clothing as needed, as provided in the Emergency Kit.
- 4.1.9 IF the Control Complex becomes the alternate location for TSC/OSC staff during an emergency,
AND is placed in the emergency recirculation mode,
THEN ENSURE Health Physics establishes O₂ and CO₂ monitoring for the Control Complex as outlined in EM-210A, Section 4.2.
- 4.1.10 IMPLEMENT mitigation strategies developed by the TSC Accident Assessment Team and approved by the Emergency Coordinator during a Severe Accident. [NOCS 100056]

4.2 Operator Dispatch

- 4.2.1 REFER TO Enclosure 1, Dispatch of Resources During Emergency Plan Entry, for operator dispatch matrix.
- 4.2.2 WHEN the TSC is operational,
AND additional personnel are available,
THEN ASSIGN two operators to the TSC/OSC.
- 4.2.3 IF the TSC is operational,
AND immediate re-entry of an operator from the Control Room is necessary,
THEN DISPATCH operator from Control Room
AND NOTIFY the TSC (via Accident Assessment Control Room Ringdown communicator)
- 4.2.4 INSTRUCT operators assigned to the TSC/OSC to identify themselves to the OSC Manager and Accident Assessment Coordinator for TSC/OSC dispatch availability.
- 4.2.5 IF Operators are not available at the TSC/OSC,
AND Operators are dispatched from the Control Room to perform an action or join reentry team from the OSC,
THEN COORDINATE a briefing or meeting place with the OSC.

Dispatching of Resources During Emergency Plan Entry

TSC <u>Not</u> Operational	
Dispatching Operators* and other Resources (Non-Operators) <u>Within</u> Control Complex Habitability Envelope	Dispatched by the on-duty SRO
Dispatching Operators* and other Resources (Non-Operators) <u>Outside</u> Control Complex Habitability Envelope	Dispatched by the on-duty SRO with Health Physics coverage as needed. Provide turnover to TSC.

TSC Operational with Minimum Staffing	
Dispatching Operators* and other Resources (Non-Operators) <u>Within</u> and <u>Outside</u> Complex Habitability Envelope	Dispatched by the on-duty SRO with Health Physics coverage as needed. Keep TSC Informed

TSC Operational with Full Staffing	
Dispatching Operators* <u>Within</u> Control Complex Habitability Envelope	Dispatched by the on-duty SRO (Keep TSC informed)
Dispatching Operators <u>Outside</u> Control Complex Habitability Envelope	Dispatched by the TSC
Dispatching Fire Brigade <u>Outside</u> Control Complex Habitability Envelope	Dispatched with EAD's by the on-duty SRO Then notify TSC to support with Health Physics coverage
Dispatching Emergency Medical Technician	Notify Security to Dispatch EMT Then notify TSC to support with Health Physics coverage
Dispatching Other Resources (Non-Operators) <u>Within</u> Control Complex Habitability Envelope	Dispatched by the TSC
Dispatching Other Resources (Non-Operators) <u>Outside</u> Control Complex Habitability Envelope	Dispatched by the TSC

* Includes the Fire Brigade

REVISION SUMMARY for Rev 18 of EM-103 (August 2003)

Changes and Reason

Procedure Section

3.4.1.j

Editorial change to replace "311 emergency phone" with "emergency phone". Change is based on emergency number to call the Control Room has changed from 311 to 5555