

Lewis Sumner
Vice President
Hatch Project Support

**Southern Nuclear
Operating Company, Inc.**
40 Inverness Parkway
Post Office Box 1295
Birmingham, Alabama 35201

Tel 205 992 7279
Fax 205 992 0341



Energy to Serve Your WorldSM

April 18, 2003

Docket Nos.: 50-321
50-366

NL-03-0835

U. S. Nuclear Regulatory Commission
ATTN: Document Control Desk
Washington, D. C. 20555-0001

Edwin I. Hatch Nuclear Plant
Emergency Implementing Procedure Revision

Ladies and Gentlemen:

In accordance with 10 CFR 50, Appendix E, Section V, Southern Nuclear Operating Company hereby submits the following revision to the Plant Hatch Emergency Implementing Procedure (EIP):

<u>EIP No.</u>	<u>Version</u>	<u>Effective Date</u>
73EP-RAD-001-0	1.2	3/25/2003

This revision makes a change to the Shift Supervisor follow-up action.

By copy of this letter, Mr. L. A. Reyes, NRC Region II Administrator, will receive two copies of the revised procedure.

This letter contains no NRC commitments. If you have any questions, please advise.

Sincerely,

H. L. Sumner, Jr.

HLS/whc

Enclosures: 73EP-RAD-001-0, Radiological Event

A045

U. S. Nuclear Regulatory Commission

NL-03-0835

Page 2

cc: Southern Nuclear Operating Company
Mr. J. D. Woodard, Executive Vice President
Mr. P. H. Wells, General Manager – Plant Hatch
Document Services RTYPE: CHA02.004

U. S. Nuclear Regulatory Commission
Mr. L. A. Reyes, Regional Administrator
Mr. S. D. Bloom, NRR Project Manager – Hatch
Mr. N. P. Garrett, Acting Senior Resident Inspector – Hatch

SOUTHERN NUCLEAR PLANT E.I. HATCH		DOCUMENT TYPE: EMERGENCY PREPAREDNESS PROCEDURE		PAGE 1 OF 6	
DOCUMENT TITLE: RADIOLOGICAL EVENT			DOCUMENT NUMBER: 73EP-RAD-001-0		REVISION/VERSION NO: 1.2
EXPIRATION DATE:	APPROVALS: DEPARTMENT MANAGER _____ CLC _____ DATE 12-23-93			EFFECTIVE DATE: 3/25/2003	
N/A	NPGM/POAGM/PSAGM _____ CTM _____ DATE 12-28-93				

1.0 OBJECTIVE

This procedure provides instructions for responding to and mitigating the results of a Radiological Event.

TABLE OF CONTENTS

<u>Section</u>	<u>Title</u>	<u>Page</u>
7.0	<u>PROCEDURE</u>	
7.1	INVOLVED PERSONNEL	
7.1.1	Control Room Personnel	
7.1.2	Personnel In Affected Area	
7.1.3	Health Physics Personnel	
7.1.4	Shift Supervisor Follow-up Action	
7.2	NON-INVOLVED PERSONNEL	

2.0 APPLICABILITY

This procedure is applicable to all personnel upon the declaration of a Radiological Event.

3.0 REFERENCES

- 3.1 60AC-HPX-001-0, Radiation Exposure Limits
- 3.2 60AC-HPX-002-0, Personnel Dosimetry Program
- 3.3 60AC-HPX-003-0, Bioassay Program
- 3.4 60AC-HPX-004-0, Radiation and Contamination Control
- 3.5 60AC-HPX-006-0, Respiratory Protection Program
- 3.6 60AC-HPX-007-0, Control of Radioactive Materials

4.0 REQUIREMENTS

4.1 PERSONNEL REQUIREMENTS

- 4.1.1 A Level 1 Health Physics (HP) Technician is the minimum level of qualification required to perform radiological monitoring.
- 4.1.2 Control Room Shift Supervisor is the minimum level of qualification necessary to declare a Radiological Event AND will make immediate decisions concerning Emergency Call List notifications.

4.2 MATERIAL AND EQUIPMENT

- 4.2.1 Equipment, as specified in appropriate plant procedures, necessary to perform radiation, contamination and airborne radioactivity surveys
- 4.2.2 Additional dosimetry (other than normal plant dosimetry) as deemed appropriate by Health Physics
- 4.2.3 Respiratory protection appropriate for isotopes and levels of radioactivity present
- 4.2.4 Protective clothing as deemed appropriate by HP

4.3 SPECIAL REQUIREMENTS

- 4.3.1 ONLY an HP & CHEM Department representative OR a Shift Supervisor may authorize entry without an RWP into an area which would normally require an RWP for entry; and ONLY when critical immediate action is required.
- 4.3.2 Transportation of contaminated injured individual to offsite hospital is a criteria for declaring an Emergency in accordance with 73EP-EIP-001-0S, Emergency Classification and Initial Actions.
- 4.3.3 When notification of personnel by title, e.g., Nuclear Plant General Manager, is directed by this procedure and those personnel are not on-site, the Plant Hatch Emergency Call List will be used to obtain home phone numbers. IF personnel are unable to be contacted, their designated alternates will be contacted.
- 4.3.4 Accurate record keeping during abnormal conditions or events is especially important to facilitate reconstruction of incident when required.

5.0 PRECAUTION/LIMITATIONS

5.1 PRECAUTIONS

- 5.1.1 ARMs will only reveal the dose rate at the detector; the dose rate of the area or room will probably be considerably higher. Do not overexpose personnel entering the area by underestimating the dose rate.
- 5.1.2 An UNEXPECTED air sample result of greater than 1 Derived Air Concentration (DAC) in an occupied area may be the first indication of a continuing or ongoing problem. Careful consideration must be given to locating the source, identifying isotopes, establishing boundaries and evaluating exposure.

5.2 LIMITATIONS

Personnel will not be authorized to exceed radiation exposure limits as set forth in 60AC-HPX-001-0S, Radiation Exposure Limits, to investigate or mitigate the consequences of a Radiological Event.

6.0 PREREQUISITES

The Control Room Shift Supervisor, normally in consultation with HP Supervision, must have determined it to be prudent to alert plant personnel to an unusual radiological condition PRIOR to initiating a Radiological Event. Such conditions include, but are not limited to the following:

- 6.1 An Area Radiation Monitor (ARM) UNEXPECTEDLY alarms indicating radiation levels in the vicinity of the monitor of greater than 10 times normal but NOT sufficiently high to cause the monitor to go off-scale on the high end.
- 6.2 An air sample taken in an occupied area which is normally not an Airborne Radioactivity Area UNEXPECTEDLY yields results of ≥ 1.0 DAC.

REFERENCE

7.0 PROCEDURE

7.1 INVOLVED PERSONNEL

<u>CAUTION:</u>	PERSONNEL MUST <u>NOT</u> BE SENT INTO AN AREA OF UNKNOWN RADIATION CONDITIONS WITHOUT HP COVERAGE, DOSIMETRY AND APPROPRIATE PROTECTIVE EQUIPMENT.
------------------------	--

7.1.1 Control Room Personnel

Upon determining that a Radiological Event has occurred, the Shift Supervisor will perform the following actions:

- 7.1.1.1 Direct the Control Room Operator to make the following announcement over the public address system:

A RADIOLOGICAL EVENT IS OCCURRING. ABOVE NORMAL RADIATION (OR AIRBORNE RADIOACTIVITY) EXISTS IN THE (location) AREA. EVACUATE AND STAY CLEAR OF THE (location) AREA(S).
- 7.1.1.2 Direct the Control Room Operator to repeat the announcement a second time.
- 7.1.1.3 Contact the Health Physics Office to assist in investigating the condition. Inform HP of the indicated dose rate of the area, IF the event was initiated due to an alarming ARM, and any other pertinent information, e.g., dropped fuel bundle, indication of leak, etc.
- 7.1.1.4 Attempt to confirm accuracy of alarmed ARMs and effluent monitors by directing that the status of ARMs and effluent monitors near or associated with incident area be checked for recent or sudden change.
- 7.1.1.5 Check habitability of Control Room by observing radiation monitors OR possible automatic isolation of control room ventilation.
- 7.1.1.6 Ensure that START HIST (history) light on the SPDS keyboard is ILLUMINATED; if not, simultaneously DEPRESS the CTRL and START HIST keys. Cancel or continue history as directed by the SOS.
- 7.1.1.7 Observe Control Room instrumentation and controls. Implement corrective action to eliminate cause of this abnormal condition, IF possible, from the Control Room.

7.1.2 Personnel In Affected Area

Personnel in affected areas must immediately evacuate the affected area. IF possible that other personnel in the immediate or adjacent areas may not have heard the announcement, ensure that they are informed of the event.

7.1.2.1 Personnel in a contaminated area will:

7.1.2.1.1 Remove outer protective clothing (rubber shoes, gloves and coveralls) at step-off-pad and evacuate to a non-affected area.

7.1.2.1.2 Inform HP of their location, area they were in, and route used to get to present location.

7.1.2.1.3 IF no apparent immediate danger exists, wait for HP assistance.

7.1.2.2 Personnel who have been in an airborne radioactivity area without respiratory protection will report for a whole body count.

7.1.2.3 Personnel who were in the affected area when an ARM alarmed will report to HP to have their accumulated dose assessed.

7.1.3 Health Physics Personnel

Upon the announcement of a Radiological Event, the most senior HP person available will perform the following:

7.1.3.1 Determine from the Control Room the location, nature and apparent extent of the Radiological Event.

7.1.3.2 Dispatch available personnel to "event" location to perform the following:

NOTE:	HP personnel will determine appropriate dress and respiratory requirements based on known plant conditions, circumstances of "event" and results of surveys.
--------------	--

7.1.3.2.1 Ensure that all non-involved personnel are out of the affected area AND all adjacent areas.

7.1.3.2.2 Investigate the cause and extent of radiological problems AND mitigate their consequences as much as possible.

7.1.3.2.3 Assist all personnel who left affected areas while dressed in protective clothing in removing AND bagging protective clothing AND in performing a whole body frisk.

7.1.3.2.4 Survey the route used by potentially contaminated personnel who left the affected area.

7.1.3.2.5 Rope-off AND post areas of high radiation OR airborne activity as conditions permit AND clear area of personnel where necessary.

7.1.3.3 Assess the accumulated dose of personnel who may have been exposed to unexpected high dose rates or airborne activity.

7.1.3.4 Ensure that the Control Room is kept informed of ALL findings related to the "event". These include, but are not limited to:

- * Radiation dose rates
- * Airborne Radioactivity level
- * Respirator requirements
- * Names of personnel who were exposed (internal or external) from the "event" and the amount of exposure
- * Contamination levels
- * Apparent cause
- * Protective clothing requirements

7.1.4 Shift Supervisor Follow-up Action

Upon receiving a status report on the cause, extent and affects of the incident, the Shift Supervisor will perform the following:

7.1.4.1 IF conditions warrant, escalate to a more severe classification in accordance with the criteria described in 73EP-EIP-001-0S, Emergency Classification and Initial Actions.

7.1.4.2 When the abnormal condition no longer exists OR HP has proper control and access to the affected area, announce an all clear over the public address system.

7.2 NON-INVOLVED PERSONNEL

Upon the announcement of a Radiological Event, non-involved personnel will perform the following:

7.2.1 Evacuate affected areas specified by PA announcement.

7.2.2 Listen for further public address announcements.

7.2.3 Be prepared to implement Notification of Unusual Event, Alert, Site Area or General Emergency procedures if the emergency is reclassified.