



Carolina Power & Light Company
Robinson Nuclear Plant
3581 West Entrance Road
Hartsville SC 29550

Serial: RNP-RA/01-0027

FEB 16 2001

United States Nuclear Regulatory Commission
Attn: Document Control Desk
Washington, DC 20555

H. B. ROBINSON STEAM ELECTRIC PLANT, UNIT NO. 2
DOCKET NO. 50-261/LICENSE NO. DPR-23

TRANSMITTAL OF EMERGENCY PROCEDURE REVISIONS

Ladies and Gentlemen:

In accordance with 10 CFR 50.4(b)(5) and 10 CFR 50, Appendix E, Carolina Power & Light (CP&L) Company is transmitting the attached revisions to Emergency Procedures. A listing of procedure revisions and their effective dates is provided in the enclosure to this letter.

A description of the procedure changes is provided on the "Summary of Changes" page for each Emergency Procedure. Please replace the superseded procedures with the attached revisions.

If you have any questions concerning this matter, please contact Mr. H. K. Chernoff.

Sincerely,

A handwritten signature in black ink, appearing to read 'B. L. Fletcher III'.

B. L. Fletcher III
Manager - Regulatory Affairs

CAC/cac

Enclosures:

List of Procedure Revisions and Effective Dates
Revised Emergency Procedures

- c: L. A. Reyes, NRC, Region II (w/Enclosure and 2 copies of Procedures)
R. Subbaratnam, NRC, NRR (w/o Attachments)
NRC Resident Inspector, HBRSEP (w/Enclosure and Procedures)

A045

List of Procedure Revisions and Effective Dates

Procedure	Revision No.	Effective Date
EPEOF-07, "Assistant to the Emergency Response Manager"	3	02/08/2001
EPNOT-01, "CR/EOF Emergency Communicator"	9	01/23/2001
EPPRO-01, "Program and Responsibilities"	8	02/13/2001
EPPRO-02, "Maintenance and Testing"	13	02/08/2001

CAROLINA POWER & LIGHT COMPANY
H. B. ROBINSON STEAM ELECTRIC PLANT, UNIT NO. 2

PLANT OPERATING MANUAL

VOLUME 2
PART 5

EMERGENCY PROCEDURE

EPPRO-01

PROGRAM AND RESPONSIBILITIES

REVISION 8

SUMMARY OF CHANGES

STEP #	REVISION COMMENTS
8.1.2.3.c, bullet 6	Changed step to require publication of draft critique reports within seven working days following the post-drill controller/evaluator meeting. Added a statement to limit publication of comments to those which would not compromise scenario confidentiality. (AR #24689)
8.1.2.3.c, bullet 9	Revised step to reflect current practices for reporting the final critique report as a self-assessment per CAP-NGGC-0201.
8.1.3.5	Added a statement to provide feedback to the EP Improvement Form initiator within ten working days regarding disposition of the item. (AR #26395)
8.1.10	<p>Re-ordered procedure steps into the following subsections:</p> <ul style="list-style-type: none"> - Scenario Development Team Composition: <ul style="list-style-type: none"> • Added responsibilities and expectations section for team members • Deleted statement "Prior to the final day preceding the year the scenario development team is needed, request EP Management to obtain scenario development team members..." • Added requirement for EP Supervisor to obtain concurrence/approval for scenario development team members prior to the end of the calendar year. - Scenario Development Planning - Scenario Package Composition
Section 8.1.13	Included additional instructions for records disposition and replaced RMP-011 with RDC-NGGC-001.
Attachment 8.1.14.1	Revised EP Improvement Form to remove reference to EP Improvement Database and changed ID number to AR number. (AR #26395)
Attachment 8.1.14.3	Changed JIC Technical Spokesperson to permanently assigned beeper position (AR #24671)
Attachment 8.1.14.4	Added new attachment for documenting scenario development team member assignments and re-numbered subsequent attachments.
Attachment 8.1.14.5	Changed title to "EP Drill and Exercise Objectives" Reworded the Objectives 18, 19, and 20. (AR #24671)
Attachment 8.1.14.6	Reworded Objectives 18, 19, and 20. Clarified the acceptance criteria for each. (AR #24671)

TABLE OF CONTENTS

SECTION	PAGE
8.1	PROGRAM AND RESPONSIBILITIES 1-4
8.1.1	DRILL AND EXERCISE PARTICIPATION 1-4
8.1.2	DRILLS AND EXERCISES 1-5
8.1.3	EP PROCEDURE MAINTENANCE AND PROGRAM IMPROVEMENTS ... 1-9
8.1.4	INADVERTENT SIREN ACTIVATION 1-10
8.1.5	EMERGENCY RESPONSE ORGANIZATION BEEPER DISTRIBUTION . 1-12
8.1.6	HURRICANE PREPARATION GUIDANCE 1-12
8.1.7	INTENTIONALLY BLANK 1-13
8.1.8	INTENTIONALLY BLANK 1-13
8.1.9	INTENTIONALLY BLANK 1-13
8.1.10	SCENARIO DEVELOPMENT 1-13
8.1.11	INTENTIONALLY BLANK 1-18
8.1.12	PUBLIC EDUCATION AND INFORMATION 1-19
8.1.13	RECORDS 1-20
8.1.14	ATTACHMENTS 1-20
8.1.14.1	EP IMPROVEMENT FORM 1-21
8.1.14.2	SIREN SYSTEM INADVERTENT ACTIVATION REPORT 1-22
8.1.14.3	ERO BEEPER DISTRIBUTION 1-23
8.1.14.4	SCENARIO DEVELOPMENT TEAM ASSIGNMENTS 1-24
8.1.14.5	EP DRILL AND EXERCISE OBJECTIVES 1-25
8.1.14.6	ACCEPTANCE CRITERIA 1-32

8.1 PROGRAM AND RESPONSIBILITIES

8.1.1 DRILL AND EXERCISE PARTICIPATION

1. ERO personnel are expected to drill/exercise with their designated team.
 - a. If they will be unavailable for the drill it is their responsibility to ensure some one from another team will fill their position.
 - b. Relief team personnel will participate in at least one team Drill, Exercise, or Tabletop each year.
 - c. Non-Team designated ERO personnel are expected to coordinate with the other persons qualified for their position to ensure the position is staffed for each drill/exercise and that each ERO member participates in at least one Drill per calendar year.
2. ERO personnel filling critical positions shall be observed at least once in a calendar year performing their ERO duties.
3. Unless otherwise directed by Emergency Preparedness (EP), ERO personnel should respond during augmentation for their facility.
 - a. Those personnel available to respond should establish 24 hour coverage for the position.
 - b. Personnel on night shift may be exempted from augmentation, but should be used to establish 24 hour coverage.
 - c. After the rotation is established, personnel may be simulated to be sent home and return to their place of work.
 - d. Personnel are required to keep the manager responsible for their accountability informed of their location should an evacuation be conducted at a later time.

8.1.2 DRILLS AND EXERCISES

1. Emergency Response Organization (ERO) personnel will participate in periodic drills at least once each calendar year. Additionally one team, on a rotational basis, will participate in the Graded Exercise. The purpose of conducting drills is to ensure that each team has the skills to successfully deal with a real emergency. The following are the types of drills conducted:
 - a. **Medical Emergency Drills:** Medical emergency drills will be conducted annually. They will involve a simulated contaminated and injured individual. Off-site portions of these drills may be conducted as part of an exercise.
 - b. **HP/PASS Drills:** Health Physics drills, including response to and analysis of simulated elevated airborne and liquid samples and direct radiation measurements, will be conducted semi-annually.
 - At least one of these radiation protection drills will involve the use of the Post Accident Sampling System.
 - These drills may also include the Medical Services drill.
 - c. **Combined Functional Drills:** Combined Functional Drills may include any of the required drills and serve as the primary method of practical training for new ERO members and continuing training for existing members.
2. An Exercise will be conducted as required by 10 CFR, Part 50, Appendix E.
 - a. The scenario which will ultimately escalate to at least a Site Area Emergency.

8.1.2.2 **DRILLS AND EXERCISES** (Continued)

- b. The scenario will be varied from year to year such that all elements of the Plant, County, and State Plans and emergency organizations are tested within a six (6)-year period.
 - c. Each Exercise scenario will include a list of performance objectives and a description of the expected responses. Specific tasks that should be evaluated are listed in Attachment 8.1.14.4 and 8.1.14.5, "Drill Objectives" and "Acceptance Criteria" respectively.
 - Attachments identify the Emergency Response facility where the activity is most likely to occur, however, the objective may be judged acceptable if performed in an alternate location.
 - Credit may be taken for objectives that are satisfactorily completed during actual events.
 - d. An off-hours exercise which starts between 6:00 p.m. and 4:00 a.m. will be conducted once every six (6) years.
 - e. Advance knowledge of the scenario content and the times of the exercises will be kept to a minimum to ensure a realistic participation by those involved.
3. The EP Staff is responsible for planning and conducting drills and exercises not addressed elsewhere (e.g., Fire Drills are addressed in the Fire Plan). They shall provide:
- a. The scenario including objectives for the drill/exercise.
 - From time to time "specific objectives" which are in addition to required performance objectives will be added to the Training Exercise Objectives. These may be in response to previous deficiencies, EP TPC items or require that normally simulated items be actually performed. A prompt to consider these items is contained in the pre-drill checklist.
 - An extent of play describing the degree of simulation for drill/exercise activities.

8.1.2.3 **DRILLS AND EXERCISES** (Continued)

- Qualified Controller/Evaluators to evaluate the drill/exercise.
- As a minimum, Controller/Evaluators should be available to evaluate the following:
 - each facility activating,
 - Environmental Monitoring Teams,
 - Mechanical Damage Control Missions (as applicable),
 - Electrical Damage Control Missions (as applicable),
 - Chemistry/Health Physics Missions,
 - Offsite functions to be simulated,
 - any special functions (e.g. fire, injury)
- b. A yearly plan for ERO exercises.
- c. A critique report noting strengths, deficiencies and comments on drill/exercise performance.
 - Critiques will be conducted after each drill/exercise.
 - A Strength is an action or activity performed in an above average manner, or in a creative manner to resolve a problem without the violation of a requirement. These are items which all teams should consider adopting.
 - Deficiency will consist, for the purpose of critiques, as the action or actions which deviate from an approved or prescribed procedure, standard, specification, regulation or exercise/drill objective. Examples are procedure violation or a Technical Specification violation during the course of a drill or exercise.
 - A note worthy item which does not meet the requirement of a Strength or a Deficiency is a comment.
 - Comments will be screened by the EP staff for applicability.

8.1.2.3c DRILLS AND EXERCISES (Continued)

- Draft critique reports should be issued for comment to the participating ERO team members within seven working days following the post drill controller/evaluator meeting. Published drill comments will be limited to those that do not compromise the confidentiality of the scenario. If two teams are participating in drills that are scheduled within two weeks of each other, then the seven working day criteria will begin at the end of the second post drill controller/evaluator meeting.
- The critique report will normally consist of the following:
 1. Cover Letter and Summary
 - The Cover letter will consist of a brief statement containing the date on which the drill(s) was conducted, team(s) that participated, and be signed by the Supervisor of Emergency Preparedness.
 - The Summary will be a statement of overall drill performance.
 2. Objectives per facility
 - The objectives may be listed in their entirety in the critique but will also be listed in each section as they pertain to each facility.
 3. Status of Objective (Met or Not Met)
 - Each objective will be listed in the appropriate section and will be noted depending on whether the acceptance criteria has been met during the drill.
 - Satisfactory completion of an objective by any team will satisfy that requirement for the Site.
 - Any team failure to demonstrate an objective is a deficiency and will be handled as such. At the discretion of EP Supervision failure to demonstrate an objective(s) may require re-demonstration.
- Controller/Evaluator should justify failures as such in the critiques held after the drill and in the write-up given to Emergency Preparedness.

8.1.2.3c DRILLS AND EXERCISES (Continued)

- The final drill critique report will be documented as a self assessment per CAP-NGGC-0201.
- d. Ensure implementation of comments or changes to Emergency Procedures as identified on EP Improvement Forms or drill critiques.
- e. A pre-drill and post-drill review of items needed to prepare for the drill/exercise or return to normal following the drill/exercise (i.e., reset simulator telephones).
- f. Follow-up on drill identified deficiencies by initiating Condition Reports (CR) as needed.

8.1.3 EP PROCEDURE MAINTENANCE AND PROGRAM IMPROVEMENTS

1. Procedure improvements may be recommended by completing an Attachment 8.1.14.1, EP Improvement Form, or a DCF as specified in AP-022, Procedure Review and Approval Process, and routing it to the Supervisor Emergency Preparedness.
2. Procedure changes to the Robinson Emergency Plan and/or Emergency Procedures will be accomplished as required by AP-022, Procedure Review and Approval Process.
 - a. Emergency Preparedness will be responsible to maintain the Emergency Action Levels (EAL) and supporting basis documents, as well as the Emergency Procedures.
 - b. Documents will be developed and maintained to comply with applicable regulations.
 - c. The EAL basis document will be revised to reflect NUREG-0654, "Criteria for Preparation and Evaluation of Radiological Emergency Response Plans and Preparedness in Support of Nuclear Power Plants," or other management directives and policies.

8.1.3.2 **EP PROCEDURE MAINTENANCE AND PROGRAM IMPROVEMENTS**
(Continued)

- d. All Emergency Procedures, EALs, and the Emergency Plan shall receive a 10 CFR 50.54(q) review to ensure the effectiveness of the Emergency Plan is not inadvertently reduced.
- 3. For each drill or real event, EP improvement forms will be available. A record of items submitted will be maintained by the EP staff.
- 4. Items reported on EP improvement forms or drill critiques will be screened for entry into the Corrective Action Program.
- 5. Feedback regarding disposition of items will be provided to the individual who initiated the comment within ten working days and resolution will be documented on the improvement form.

8.1.4 **INADVERTENT SIREN ACTIVATION**

- 1. Upon receiving a report of an inadvertent siren activation:
 - a. If a real emergency or drill/exercise is in progress that involves sounding of the sirens, then direct the callers to tune to an Emergency Alerting System Station listed in the emergency public information distributed by CP&L.
 - b. If no event is in progress obtain information requested on attachment 8.1.14.2, Siren System Inadvertent Activation Report and ask the caller if a call back is desired once more information is known.

8.1.4 **INADVERTENT SIREN ACTIVATION** (Continued)

2. If an inadvertent siren activation has been confirmed, then notify the following:

- a. All County Emergency Operations Center or Warning Points concerning the plant status. This can be accomplished via Selective Signaling or the Bell lines.

Sirens are located as follows:

- Chesterfield County - 13 Siren Locations
Siren #'s - 01, 02, 03, 04, 05, 06, 09, 10, 11, 15, 16, 17, and 45
- Darlington County - 28 Siren Locations
Siren #'s - 07, 08, 12, 13, 14, 18, 19, 20, 21, 22, 23, 24, 25, 26, 27, 30, 31, 32, 33, 34, 36, 37, 38, 39, 41, 42, 43, and 44
- Lee County - 4 Siren Locations
Siren #'s - 28, 29, 35, and 40

Total Sirens - 45 Siren Locations (All Counties)

- b. Notify the Telecommunication Help Desk (8-1-800-800-6200) that an inadvertent siren activation has occurred and request that repair personnel be dispatched to correct the problem. Request a work order Number and a return call when the sirens have been silenced.
- c. Notify Emergency Preparedness by phone or pager. The ERO Phone Book has the necessary information.
- d. Notify Robinson Communications of the inadvertent siren activation and request immediate notification if a press release is to be issued. A press release relating to this event is reportable to the NRC. Consult AP-030, NRC Reporting Requirements.

8.1.4 **INADVERTENT SIREN ACTIVATION** (Continued)

3. When the Unit 2 Control Room is notified that the siren(s) have been silenced ensure that:
 - a. Evaluate AP-030, NRC Reporting Requirements, for potential NRC reporting.
 - b. Notify the State and County Warning Points concerning the status of the sirens.
 - c. Notify Robinson Communications.
4. Forward information gathered and any completed Attachment 8.1.14.2 forms to Emergency Preparedness for retention as appropriate.

8.1.5 **EMERGENCY RESPONSE ORGANIZATION BEEPER DISTRIBUTION**

1. After qualifying as an ERO member, EP will arrange an ERO beeper for the positions identified in Attachment 8.1.14.3, ERO Beeper Distribution.
2. Beepers are to ensure that the plant has the ability to meet the 30-45 minute response staffing requirements.
3. Plant Public Address, Non-Responding Emergency Communicators, dialogic and/or beepers are used to contact the 60-75 minute staff, and other positions not required by NUREGs.

8.1.6 **HURRICANE PREPARATION GUIDANCE (CR 16553)**

OMM-021 "Operation During Adverse Weather Conditions", provides direction for hurricane/adverse weather preparations. Additional tasks for the EP staff to consider are:

- Establish the response teams.
- Designate and post sleeping areas.
- Set up and test the satellite telephone.

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8.1.10 SCENARIO DEVELOPMENT

1. Scenario Development Team Composition

NOTE: Members of Training or other support units may substitute for one or more of the following, provided the individual has equivalent knowledge and experience and the substitution is approved by the Supervisor - Emergency Preparedness.

A core team (required) for scenario development should be selected according to the following guidance:

- a. The Drill and Exercise Coordinator will be a member of the EP Unit, as assigned by the Supervisor - Emergency Preparedness.
- b. Other members of the EP Unit staff will be responsible for coordination and completion of assigned areas of the scenario to include logistical support.
- c. One (1) analyst or other experienced member of E&RC, who will:
 - Provide calculations and in-plant expertise associated with chemistry and radiological aspects of the scenario.
 - Assist with radiological and/or chemical plume distribution and deposition aspects of the scenario.
- d. A minimum of two (2) experienced members of the Maintenance or work planning units, who work normal work week hours, will be assigned to the team. One member will have expertise in mechanical maintenance activities, the other in electrical and I&C activities. These individuals are to be experienced with the current work management processes and will:
 - Develop the materials necessary to simulate and evaluate plant assessment and damage control missions associated with the scenario.

8.1.10.1.d **SCENARIO DEVELOPMENT** (Continued)

- Assist with the development of equipment malfunction causes based on industry operating experience, NRPDS/EPIX, and so forth.
 - Manufacture or otherwise develop damage control mock-ups as needed.
- e. A member of Operations Support who holds or has held an SRO License or Certification at RNP. This individual will:
- Develop, with assistance from RNP Operations Training, equipment malfunction sequences that are required to achieve the scope and requirements of the exercise scenario.
 - Review plant response, procedures, and data to ensure achievement of the goals/requirements of the exercise.
 - Provide altered plant data or instructions needed to ensure that participants will proceed through the scenario as expected/required.
 - Validate the scenario on the simulator.
- f. A member of RNP Operations Training who is knowledgeable in the use of the training simulator. This individual will:
- Assist Operations with development of equipment malfunction sequences necessary to achieve the scope and requirements of the scenario(s).
 - Coordinate proposed event sequences and data within the capabilities of the training simulator.
 - Review plant data, procedure transitions and instructions as needed to provide a smooth running scenario.
- g. RNP Simulator Support group. These (this) individual(s) will:
- Provide support for parameter override capabilities and modeling to achieve the needed results for the scenario.
 - Provide data capture and download resources to aid in manipulation and dissemination of data points needed for others calculations, and for back-up scenario data.

8.1.10.1 **SCENARIO DEVELOPMENT** (Continued)

The core team may be augmented for specific scenarios to include the following disciplines:

- a. A member of Fire Protection who will provide exercise-specific assistance for fire fighting scenarios.
- b. A member of Information Technology who will provide interface for necessary set-up and preparations of telecommunications and computer equipment and software.
- c. A member of Engineering who will assist with equipment, maintenance, technical or analysis related aspects of the scenarios (such as Core Damage Assessment).
- d. A member of Security who will assist with scenarios pertaining to security related Emergency Action Levels (EALs) or for scenarios designed to evaluate or practice security force activities as an element of the scenario.
- e. Others as may be specifically requested through the Supervisor - Emergency Preparedness.
- f. Team Members are expected to perform the following tasks:
 - attend scheduled scenario development meetings, critiques, and self-assessment roll-up meetings.
 - function as a Controller/Evaluator in drills/exercises as requested,
 - maintain all scenario development materials confidential and promptly report to EP any compromise of scenario elements, and
 - develop scenario materials and mock-ups assigned.
- g. The Supervisor - Emergency Preparedness should obtain concurrence for scenario development team assignments and approve the team composition prior to the end of the calendar year. Attachment 8.1.14.4 or an equivalent form should be used to document concurrence/approval.

8.1.10 **SCENARIO DEVELOPMENT** (Continued)

2. Scenario Development Planning

a. Annually, based on the scope and the required objective demonstration, a schedule for scenario development and drill/exercise planning for the upcoming year should be created. This schedule should take into account:

- Scenario content and complexity needed to accomplish drill or exercise requirements and goals.
- Availability of previously developed scenario materials.
- Scheduled plant outage and maintenance activities.
- Shared resource commitments to outages off-site.
- Plant personnel training schedules.
- Simulator availability.
- State and local government's needs based on their level of participation.
- NRC and FEMA materials submittal requirements (Evaluated Exercises only).

Days before Exercise	Activity
90	Exercise Objectives/Scenario Timeline Due to FEMA
45	Exercise Objectives/Scenario Timeline Due to NRC

b. To the extent practical, scenarios should be validated using the following guidance:

- For NRC Evaluated Exercises, validation should utilize licensed individuals and be performed close to the actual date of the Exercise. This will ensure the simulator model and operator response is similar to expectations. Separate validation by team members is also desirable.

8.1.10 **SCENARIO DEVELOPMENT** (Continued)

- For Normal Training Exercises the “Operations” portion of the scenario is validated by training staff. The integrated scenario (operations combined with EP aspects) should be reviewed by the EP scenario development member and Training to verify adequate timing of events for EP purposes.
- c. Several months prior to the start of the routine training exercise schedule, perform the following:
 - Identify required objectives to be performed during that year.
 - Identify any “specific objectives” in addition to the required objectives.

3. Scenario Package Composition

To the extent practical, scenarios should contain the following information. The following sections are suggested for all graded and training exercises.

Section 1.0 Introduction

The introduction contains a description of time, date, and type of exercise. It also includes a description of the level of agency involvement and the agencies which will participate. The introduction also includes a description of each section contained in the scenario manual.

Section 2.0 Objectives

This section defines the exercise objectives.

Section 3.0 Scenario

This section describes the postulated sequence of events occurring at the H.B. Robinson Steam Electric Plant Unit 2 (HBRSEP) which will require the HBRSEP Emergency Preparedness Organization and various onsite and offsite organizations to respond. Included in this sections are copies of the exercise messages and pertinent data which will be utilized to control the progress of the exercise scenario.

8.1.10 **SCENARIO DEVELOPMENT** (Continued)

Subsection 3.1 Messages

This subsection contains copies of the exercise messages which will be utilized to control the progression of the exercise scenario.

Subsection 3.2 Plant Parameters

This subsection contains time related information concerning the postulated plant conditions, which corresponds to the development of the exercise scenario.

Subsection 3.3 Meteorological Information

This subsection contains information and data concerning the postulated meteorological conditions to the site area which will be utilized in the development of the exercise scenario.

Subsection 3.4 Radiological and Damage Control Mission Information

This subsection contains information and data concerning the postulated radiological conditions and Damage Control missions. The radiological information is for onsite as well as offsite conditions due to the abnormal conditions of HBRSEP. The missions are for troubleshooting and repair of onsite damaged or out of service plant equipment needed for the operation of HBRSEP.

Section 4 Controller Instructions

This section contains information concerning the controller aspects of exercise participants and facilities.

Section 5 Evaluator Instructions

This section contains information concerning the evaluation of exercise participants and facilities.

Section 6 Supplementary Material

This section contains materials to be used by Controller/Evaluators for documenting strengths, deficiencies, and comments to be used in the individual critiques.

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8.1.12 **PUBLIC EDUCATION AND INFORMATION**

1. Emergency Preparedness and Site Communications shall perform the following actions:
 - a. In cooperation with the State of South Carolina, local governments and with corporate CP&L efforts, ensure that public education and information efforts are consistent and complementary.
 - b. Ensure that a public information program for persons living in the possible plume exposure Emergency Planning Zone includes the following elements:
 - Brochures or other media containing educational information on emergency preparedness, nuclear power and radiation, and how to contact CP&L for more information.
 - Coordination of speakers to address emergency preparedness when requested.
 - Supplying news material for the media.
 - c. Ensure that the public education program includes the following information:
 - The potential for occurrence of a radiological emergency.
 - How to recognize a radiological emergency notification.
 - What proper, immediate actions (e.g., return to home, close windows and turn on radio) should be taken upon notification.
 - Protective actions to be taken if shelter is prescribed.
 - General procedure to follow if an evacuation is required.
 - General education on radiation.
 - A contact for how to learn more about emergency preparedness.

8.1.13 RECORDS

1. Attachment 8.1.14.1 and Attachment 8.1.14.2 are to be maintained in the EP Unit files for a period of two years unless otherwise specified.
2. The following documents are to be submitted for retention as vital records in the plant vault per RDC-NGGC-0001:
 - Recurring drills/exercise maintenance and testing records documented per EPPRO-02.
 - NRC Biennial Graded Exercise scenario narrative/timeline, scope and objectives, and final critique report.
3. For Full Scale Drills/Exercises, copies of the scenario timeline, draft critique reports, attendance records, and final critique reports should be maintained by the EP Staff for a period of six (6) years.
4. For Small Scale Drills, copies of the covered topics, attendance records, and critique reports should be maintained by the EP Staff for a period of six (6) years.

8.1.14 ATTACHMENTS

- 8.1.14.1 EP Improvement Form
- 8.1.14.2 Siren System Inadvertent Activation Report
- 8.1.14.3 ERO Beeper Distribution
- 8.1.14.4 Scenario Development Team Assignments
- 8.1.14.5 EP Drill and Exercise Objectives
- 8.1.14.6 Acceptance Criteria

ATTACHMENT 8.1.14.1
Page 1 of 1
EP IMPROVEMENT FORM

DATE: _____

ERO POSITION: _____

NAME: _____

RECOMMENDED CHANGE IS IN REFERENCE TO:

_____ EMERGENCY PLAN

_____ EMERGENCY FACILITY

_____ EP- _____
(Give Number)

_____ EP TRAINING

_____ EQUIPMENT

_____ OTHER (List) _____

I RECOMMEND THE FOLLOWING CHANGE, ADDITION OR IMPROVEMENT:

(Be specific - list all information) _____

For Emergency Preparedness Use

Date Received: _____

Date Originator Notified: _____

RESOLUTION _____

Completed documents to be maintained in EP Files for a period of two years.

ATTACHMENT 8.1.14.3
Page 1 of 1
ERO BEEPER DISTRIBUTION

All Team Members in the following positions.

SEC	OSC Leader	AERM
POD	ERM	NRC
TAD	A&LM	EP
ERD	TAM	JIC Director
RCD/RCM	POA	Reactor Engineer
ESTL	EC	Computer Support
Superintendent Shift Operations Desk	DPTL	Company Spokesperson
State/County Communicator		RC Tech-Damage Control
RC Tech Facilities (45 min)		En Mon Team (45 min)
JIC Technical Spokesperson		

Rotational Beeper positions

NRC Communicator	Environmental/Chemistry Tech
PI Communicator	Electrical Engineer
Security Lieutenant	Mechanical Engineer
Damage Control Leaders	RC Tech-Facilities (75 min)
(1) Mechanics	En Mon Team Leader
(1) I&C/Electricians	En Mon Team (75 min)

(1) Normally on shift, beepers available

This information is for resource allocation only. No record retention requirements apply.

SCENARIO DEVELOPMENT TEAM ASSIGNMENTS

The below named personnel are responsible for RNP Emergency Preparedness Scenario development for the time period _____ through _____ ①.

The responsibilities and expectations for the conduct of these duties are delineated in Section 8.1.10.1 of this procedure.

Core Team Responsibility:	Name:
Coordinator	
Lead Controller	
E&RC	
Plant Radiation	
Off-site Radiation	
Operations	
Operations Training	
Simulator Support	
Mechanical Maint.	
Elec/I&C Maint.	

Augment. Team Responsibility:	Name:
Fire Protection	
Info. Technology	
Engineering	
Security	
Public Information	
Other	

① A schedule of activities and tentative resource needs should be attached.

Team Composition Approval: _____

Signature: _____ Supervisor-Emergency Preparedness/Date

This information is for resource allocation only.

ATTACHMENT 8.1.14.5
Page 1 of 7
EP DRILL AND EXERCISE OBJECTIVES

	NUREG 0654	OBJECTIVE	CR	TSC	OSC	JIC	EOF	FREQ
1	A.1.e F.1.a	Provide 24 hour per day on shift emergency response personnel as required by the Emergency Plan including the capability of 24 hour per day manning of communications.	X					6 yr
2	A.4	Demonstrate ability to staff Emergency Response Facilities (ERF) 24 hours per day.		X	X	X	X	6 yr
3	B.5 H.4 B.7 ¹ b.2	Demonstrate the ability to augment shift staff and activate ERFs with Emergency Plan Table 5.3.2-1, "Capability for Additions" column for 30-45 min and 60-75 min.		X	X		X	2 yr
4	B.7.a B.7.b B.7.c B.7.d	Demonstrate the ability to augment shift staff with: -Logistics support personnel -Technical support for reentry/recovery operations -Management interface with governmental authorities -Corporate interface with news media		X			X X X	2 yr

¹10CFR50.47

ATTACHMENT 8.1.14.5
Page 2 of 7
EP DRILL AND EXERCISE OBJECTIVES

	NUREG 0654	OBJECTIVE	CR	TSC	OSC	JIC	EOF	FREQ
5	B.8	Demonstrate the ability to contact Contractors and private organizations for technical assistance.					X	Ann
6	B.9 L.4 ¹ b.12	Demonstrate the ability to obtain assistance from law enforcement, medical, and fire-fighting organizations including assistance for contaminated personnel.	X					Ann
7	C.2.b	Demonstrate the ability to provide a representative to the SEOC (when activated) and County EOCs.					X	2 yr
8	C.3 ¹ b.9	Demonstrate the ability to coordinate radiological monitoring and analysis.					X	Ann
9	D.1 I.1 ¹ b.4	Demonstrate the ability to identify and properly classify events using appropriate procedures, plant system parameter values, and the EALs.	X	X				Ann
10	E.2 F.1.e ¹ b.2	Demonstrate the ability to alert, notify, and mobilize ERO personnel	X	X	X	X	X	Ann
11	E.3 ¹ b.5	Demonstrate the ability to make initial emergency notification to State and Chesterfield, Darlington, and Lee County Warning Points or EOCs within 15 minutes following declaration of each emergency classification.	X				X	Ann

¹10CFR50.47

ATTACHMENT 8.1.14.5
Page 3 of 7
EP DRILL AND EXERCISE OBJECTIVES

	NUREG 0654	OBJECTIVE	CR	TSC	OSC	JIC	EOF	FREQ
12	E.4 ¹ b.5	Demonstrate the ability to make follow-up notifications to State and Chesterfield, Darlington, and Lee County Warning Points or EOCs within 60 minutes following initial and change of classification notifications.	X				X	Ann
13	E.7 J.7 ¹ b.10	Demonstrate the ability to formulate protective action recommendations and transmit to State and County personnel.					X	Ann
14	F.1 F.1.a F.1.b	Demonstrate the ability to communicate with State and County personnel using primary and backup communication systems.	X				X	Ann
15	F.1.c	Demonstrate the provisions to communicate with Federal emergency response organizations.	X	X				Ann
16	F.1.d ¹ b.6	Demonstrate the ability to communicate between the CR, TSC, EOF, OSC, and Enmon teams.	X	X	X		X	Ann
17	F.1.f	Demonstrate the ability to communicate with the NRC within 60 minutes following each emergency classification declaration.	X	X				Ann
18	G.3.a G.3.b	Demonstrate timely activation of the Joint Information Center.				X		2 yr

¹10CFR50.47

ATTACHMENT 8.1.14.5
Page 4 of 7
EP DRILL AND EXERCISE OBJECTIVES

	NUREG 0654	OBJECTIVE	CR	TSC	OSC	JIC	EOF	FREQ
19	G.4.a ¹ b.7	Demonstrate the ability to obtain emergency related information.				X		2 yr
20	G.4.b G.4.c	Demonstrate the ability to disseminate timely, accurate, and appropriate emergency information including provisions for rumor control.				X		2 yr
21	H.6.a H.6.b I.5	Demonstrate the ability to obtain data from meteorological, hydrologic, seismic, radiological monitors, and sampling devices.	X				X	Ann
22	I.2 ¹ b.9	Demonstrate the ability to obtain samples and analyze data from the PASS and other post accident monitoring equipment.			X			Ann
23	I.3.a I.3.b	Demonstrate the ability to determine the source term and magnitude of releases.	X				X	Ann
24	I.8 I.9 J.7	Demonstrate the ability to project dosage to the public, from the ingestion pathway, based on plant and field data.					X	Ann
25	J.1 ¹ b.2	Demonstrate the ability to alert and advise individuals who are visitors, contractors, and members of the public onsite.	X					Ann

¹10CFR50.47

ATTACHMENT 8.1.14.5
Page 5 of 7
EP DRILL AND EXERCISE OBJECTIVES

	NUREG 0654	OBJECTIVE	CR	TSC	OSC	JIC	EOF	FREQ
26	J.3 K.7	Demonstrate the ability to evacuate non-essential personnel from site to be monitored and decontaminated at an offsite location.			X		X	6 yr
27	J.4	Demonstrate the ability to monitor, decontaminate and evacuate non-essential personnel from site.			X		X	6 yr
28	J.5	Demonstrate the ability to account for individuals in the protected area and identify the names of those unaccounted for within 30 minutes.		X				6 yr
29	J.6 K.3.a K.3.b	Demonstrate the ability to provide ERO personnel protective clothing, respiratory protection, dosimetry, and radioprotective drugs. This also includes determination of doses received and maintenance of dose records 24 hours per day.	X	X	X		X	2 yr
30	K.1 ¹ b.11	Demonstrate the ability to establish onsite exposure guidelines consistent with EPA emergency worker and lifesaving activities.		X				Ann
31	L.2	Demonstrate the ability to provide onsite first aid capability.			X			Ann

¹10CFR50.47

ATTACHMENT 8.1.14.5
Page 6 of 7
EP DRILL AND EXERCISE OBJECTIVES

	NUREG 0654	OBJECTIVE	CR	TSC	OSC	JIC	EOF	FREQ
32	M.1 M.2 M.3 M.4	Demonstrate the ability to reassess plant conditions and evaluate recovery/reentry considerations.					X	6 yr
33	N.1.b	Demonstrate the ability to augment the ERO, during an Exercise, between 6:00 p.m. and 4:00 a.m. or any weekend hours.	X					6 yr
34	N.2.d	Perform Radiological Monitoring Drills which involve collection and analysis of all sample media (e.g., water, vegetation, soil and air), and provisions for communications and record keeping.					X	Ann
35	N.2.b	Perform fire drills which demonstrate the ability of the fire brigade to respond to a fire and interface with offsite fire assistance.	X					6 yr
36	N.2.c	Perform medical emergency drills which demonstrate the ability to deal with a medical emergency involving a simulated contaminated individual including participation of offsite medical treatment agencies.	X		X			Ann

¹10CFR50.47

ATTACHMENT 8.1.14.5
Page 7 of 7
EP DRILL AND EXERCISE OBJECTIVES

	NUREG 0654	OBJECTIVE	CR	TSC	OSC	JIC	EOF	FREQ
37	N.2.e (1) ¹ b.9	Perform Health Physics Drills which involve response to, and analysis of, simulated elevated airborne and liquid samples and direct radiation measurements in the environment.			X			6 mo
38	ACR 94- 01156 CA .1	Perform an offsite hazards drill which will involve response to, and analysis of simulated offsite hazards (examples: chlorine, propane, hydrogen, gasoline or some other offsite hazard either natural man made). Samples and measurements as well as protective measures should be taken.	X	X	X		X	Ann
39	N.4	Perform a critique at the conclusion of an exercise to evaluate the ability of organizations to respond as required.	X	X	X	X	X	Ann
40		Demonstrate that NRC identified open items resulting from previous exercises are corrected.						
41	CR 98- 02026	Demonstrate actual use of SCBA's including field change out of spare cylinder.			X			Ann

¹10CFR50.47

ATTACHMENT 8.1.14.6
Page 1 of 7
ACCEPTANCE CRITERIA

	OBJECTIVE	ACCEPTANCE CRITERIA
1	Provide 24 hour per day on shift emergency response personnel as required by the Emergency Plan including the capability of 24 hour per day manning of communications.	This objective is met as long as the staffing requirements of Technical Specifications, Emergency Plan Table 5.3.2-1 "Minimum Shift Size" column are satisfied.
2	Demonstrate ability to staff ERFs 24 hours per day.	This objective is met when the ERFs are staffed and a shift turnover is complete.
3	Demonstrate the ability to augment shift staff and activate ERFs with Emergency Plan Table 5.3.2-1, "Capability for Additions" column for 30-45 min and 60-75 min.	This objective is met when the staffing requirements of the Emergency Plan Table 5.3.2-1, "Capability for Additions" column is satisfied.
4	Demonstrate the ability to augment shift staff with: -Logistics support personnel -Technical support for reentry/recovery operations -Management interface with governmental authorities -Corporate interface with news media	This objective is met when facilities are capable of being activated.
5	Demonstrate the ability to contact Contractors and private organizations for technical assistance.	This objective is met when the ability to contact has been demonstrated. (Actual contact may be simulated.)
6	Demonstrate the ability to obtain assistance from law enforcement, medical, and fire-fighting organizations including assistance for contaminated personnel.	This objective is met when the ability to contact has been demonstrated. (Actual contact may be simulated.)

¹10CFR50.47

ATTACHMENT 8.1.14.6
Page 2 of 7
ACCEPTANCE CRITERIA

	OBJECTIVE	ACCEPTANCE CRITERIA
7	Demonstrate the ability to provide a representative to the SEOC (when activated) and County EOCs.	This objective is met when the facilities are activated and an ERO representative is present.
8	Demonstrate the ability to coordinate radiological monitoring and analysis.	This objective is met when appropriate monitoring and analysis data are received. (May be simulated)
9	Demonstrate the ability to identify and properly classify events using appropriate procedures, plant system parameter values, and the EALs.	This objective is met when events are correctly classified in a timely manner.
10	Demonstrate the ability to alert, notify, and mobilize ERO personnel.	This objective is met when the ERFs are activated.
11	Demonstrate the ability to make initial emergency notification to State and Chesterfield, Darlington, and Lee County Warning Points or EOCs within 15 minutes following declaration of each emergency classification.	This objective is met when initial notifications are accomplished within the required 15 minutes. Time starts at emergency declaration and ends at first contact.
12	Demonstrate the ability to make follow-up notifications to State and Chesterfield, Darlington, and Lee County Warning Points or EOCs within 60 minutes following initial and change of classification notifications.	This objective is met when follow-up notifications are accomplished within the required 60 minutes. Time starts at completion of the previous notification and ends at first contact.

¹10CFR50.47

ATTACHMENT 8.1.14.6
Page 3 of 7
ACCEPTANCE CRITERIA

	OBJECTIVE	ACCEPTANCE CRITERIA
13	Demonstrate the ability to formulate protective action recommendations and transmit to State and County personnel.	This objective is met when protective action recommendations are transmitted to the State and Counties within 15 minutes following the declaration of a General Emergency.
14	Demonstrate the ability to communicate with State and County personnel using primary and backup communication systems.	This objective is met when communications have been established using the Selective Signaling system and one of the backup systems.
15	Demonstrate the provisions to communicate with Federal emergency response organizations.	This objective is met by agreement letters.
16	Demonstrate the ability to communicate between the CR, TSC, EOF, OSC, and Enmon teams.	This objective is met when none of the other Objectives fail due to communications.
17	Demonstrate the ability to communicate with the NRC within 60 minutes following each emergency classification declaration.	This objective is met when communications are established within the required time. Time starts at emergency declaration and ends at first contact.
18	Demonstrate timely activation of the Joint Information Center.	This objective is met when the Company Spokesperson has declared the Joint Information Center activated and the information has been entered into the log.

¹10CFR50.47

ATTACHMENT 8.1.14.6
Page 4 of 7
ACCEPTANCE CRITERIA

	OBJECTIVE	ACCEPTANCE CRITERIA
19	Demonstrate the ability to obtain emergency related information.	This objective is met when facility briefings between the EOF and JIC have been conducted as appropriate.
20	Demonstrate the ability to disseminate timely, accurate, and appropriate emergency information, including provisions for rumor control.	This objective is met when a press conference has been conducted by a Company Spokesperson and false information has been corrected by responsible personnel.
21	Demonstrate the ability to obtain data from meteorological, hydrologic, seismic, radiological monitors, and sampling devices.	This objective is met when data has been obtained and provided to appropriate personnel.
22	Demonstrate the ability to obtain samples and analyze data from the PASS and other post accident monitoring equipment.	This objective is met when samples have been obtained and accurately analyzed.
23	Demonstrate the ability to determine the source term and magnitude of releases.	This objective is met when source term and release magnitude/dose protection have been accurately determined.
24	Demonstrate the ability to project dosage to the public, from the ingestion pathway, based on plant and field data.	This objective is met when Dose Projection information is included in the General Emergency declaration notification or as a follow-up to the General Emergency notification.

¹10CFR50.47

ATTACHMENT 8.1.14.6
Page 5 of 7
ACCEPTANCE CRITERIA

	OBJECTIVE	ACCEPTANCE CRITERIA
25	Demonstrate the ability to alert and advise individuals who are visitors, contractors, and members of the public onsite.	This objective is met when individuals receive, understand, and respond as required to notifications provided by alarms and PA.
26	Demonstrate the ability to evacuate non-essential personnel from site to be monitored and decontaminated at an offsite location.	This objective is met when personnel are sent to an offsite location for decontamination. (May be simulated.)
27	Demonstrate the ability to monitor, decontaminate and evacuate non-essential personnel from site.	This objective is met when personnel are able to discuss decontamination procedures.
28	Demonstrate the ability to account for individuals in the protected area and identify the names of those unaccounted for within 30 minutes.	This objective is met when accountability is completed within 30 minutes.
29	Demonstrate the ability to provide ERO personnel protective clothing, respiratory protection, dosimetry, and radioprotective drugs. This also includes determination of doses received and maintenance of dose records 24 hours per day.	This objective is met when adequate supplies are available and dose records are maintained during the drill.

¹10CFR50.47

ATTACHMENT 8.1.14.6
Page 6 of 7
ACCEPTANCE CRITERIA

	OBJECTIVE	ACCEPTANCE CRITERIA
30	Demonstrate the ability to establish onsite exposure guidelines consistent with EPA emergency worker and lifesaving activities.	This objective is met when emergency worker and lifesaving exposure guidelines are implemented.
31	Demonstrate the ability to provide onsite first aid capability.	This objective is met when First Responders have provided initial treatment and the victim(s) have been delivered to the rescue squad. (Portions may be simulated.)
32	Demonstrate the ability to reassess plant conditions and evaluate recovery/reentry considerations.	This objective is met when a recovery plan and an organization is formulated. (May be simulated.)
33	Demonstrate the ability to augment the ERO, during an Exercise, between 6:00 p.m. and 4:00 a.m. or any weekend hours.	This objective is met when augmentation is successfully completed between the hours of 6:00 p.m. and 4:00 a.m. or any weekend hours.
34	Perform Radiological Monitoring Drills which involve collection and analysis of all sample media (e.g., water, vegetation, soil and air), and provisions for communications and record keeping.	This objective is met when environmental measurement through analysis of water, vegetation, soil, and air sample media have been completed, recorded and communicated.
35	Perform fire drills which demonstrate the ability of the fire brigade to respond to a fire and interface with offsite fire assistance.	This objective is met when the fire brigade arrives at the scene with appropriate equipment and offsite fire assistance is coordinated. (Portions may be simulated.)

¹10CFR50.47

ACCEPTANCE CRITERIA

	OBJECTIVE	ACCEPTANCE CRITERIA
36	Perform medical emergency drills which demonstrate the ability to deal with a medical emergency involving a simulated contaminated individual including participation of offsite medical treatment agencies.	This objective is met when first responders arrive at the scene and offsite assistance is coordinated. (Portions may be simulated.)
37	Perform Health Physics Drills which involve response to, and analysis of, simulated elevated airborne and liquid samples and direct radiation measurements in the environment.	This objective is met when response and analysis is made to simulated elevated airborne and liquid samples and direct radiation measurements in the environment.
38	Perform an offsite hazards drill which will involve response to and analysis of simulated offsite hazards (example chlorine, propane, hydrogen, gasoline or some other offsite hazard either natural or man made). Samples, measurements as well as protective measures should be taken.	This objective is met when an offsite hazard is included in a drill or exercise and protective measures are taken and the hazard is measured for the protective measures.
39	Perform a critique at the conclusion of an exercise to evaluate the ability of organizations to respond as required.	This objective is met when facility critiques have been conducted.
40	Demonstrate that NRC identified open items resulting from previous exercises are corrected.	This objective is met by successful demonstration of the task in the area(s) of concern.
41	Demonstrate use of SCBAs including field change out of spare cylinder.	This objective is met when actual use of SCBAs and change out of cylinder are demonstrated.

¹10CFR50.47

CAROLINA POWER & LIGHT COMPANY
H. B. ROBINSON STEAM ELECTRIC PLANT, UNIT NO. 2

PLANT OPERATING MANUAL

VOLUME 2
PART 5

EMERGENCY PROCEDURE

EPNOT-01

CR/EOF EMERGENCY COMMUNICATOR

REVISION 9

SUMMARY OF CHANGES

STEP #	REVISION COMMENTS
Quick Start Guide for CR.	Revised name to reflect broader purpose of guide. Added a step to notify the resident NRC inspectors.
8.1.3.9f	Added new step to include Dialogic report in event paper work sent to the EP Staff.
Attach 8.1.5.12	Inserted revised NRC notification form.

TABLE OF CONTENTS

SECTION	PAGE
CR EMERGENCY NOTIFICATIONS QUICK START GUIDE	1-4
EOF EMERGENCY COMMUNICATOR QUICK START GUIDE	1-5
8.1.1 PURPOSE	1-6
8.1.2 RESPONSIBILITIES	1-6
8.1.3 INSTRUCTIONS	1-6
8.1.4 RECORDS	1-14
8.1.5 ATTACHMENTS	1-14
8.1.5.1 Emergency Notification Form	1-15
8.1.5.2 Communications Checklist	1-22
8.1.5.3 Communications Log	1-23
8.1.5.4 Automated ERO Notification Form (Dialogic)	1-24
8.1.5.5 Safety Parameter Display System/Plant Status Data Sheet	1-25
8.1.5.6 Emergency Communications Equipment Instructions/ Operating Protocol.....	1-26
8.1.5.7 Back-up Method for Tele-Conferencing State and County Warning Points (WPs) Using Northern Telecom Telephone System.....	1-37
8.1.5.8 ESSX Telephone Service Off-Site Communications System	1-38
8.1.5.9 Control Room Practice Scenario Use	1-39
8.1.5.10 Simulator Dialogic Scenario Use	1-40
8.1.5.11 Manual Initiation of the ERO Beepers	1-41
8.1.5.12 Event Notification Worksheet	1-42

CR EMERGENCY NOTIFICATIONS QUICK START GUIDE

NOTE: Blanks are provided for place keeping ✓'s only, logs are the official record. This is a summary level guide and does not replace the procedure steps.

<u>Equipment</u>	<u>Equipment</u>	<u>Copies:</u>
Fax Machine	EC Book	8.1.5.1 (ENF and roll call form)
ERO Phonebook	EP Procedures	8.1.5.2 (Communications Checklist)
Dialogic Password Card	CR SSO Terminal	8.1.5.3 (Communications Log)
NRC ETS Phone	Selective Signaling	8.1.5.4 (Dialogic)
CR Beeper		8.1.5.12 (Event Notification Worksheet)

1. Log on to an EDS terminal, If not operable then use manual Emergency Notification form and fax by hand. _____
 F3 → EP Functions → Login (as CRSS and name) → Declare Event

2. Complete EP Notification Form (Attachment 8.1.5.1) _____
 Primary Notification Process
 Fax to off site agencies by clicking on "FAX" on the form.
 Contact State and County agencies on Selective Signaling (Dial A1)
 Press to Talk
 Alternate Notification Process
 Use Northern Telecommunications Phones (Attachment 8.1.5.7)
 Use ESSX (Attachment 8.1.5.6)
 Call Roll → Read Message and Authenticate if required
 (codes in EC Book)

3. ERO Callout: _____
 Complete form (Attachment 8.1.5.4)
 SSO/SEC approval
 Dialogic not functional? → Manual beeper initiation
 (Attachment 8.1.5.11)
 → Contact NREC for non-beeper staff
 (ERO phonebook)

4. Notify resident NRC inspector(s). _____

5. NRC Notification per EPNOT-04 _____

6. Alert or above? Notify ANI and INPO within 2 hours. _____

7. Terminate Beeper Callouts with 0*0*0 _____

EOF EMERGENCY COMMUNICATOR QUICK START GUIDE

NOTE: Blanks are provided for place keeping √'s only, logs are the official record.
This is a summary level guide and does not replace the procedure steps.

1. Check equipment operable. _____
2. Log on to EDS. _____
3. Declare an event. (First Notification Only) _____
4. Receive turnover from Control Room staff. _____
- 5.* Complete the Emergency Notification Form. _____
6. Obtain SEC approval. _____
7. Transmit to State and Counties. _____
8. Refer to procedure. _____

* These items may be performed in parallel or by multiple personnel to expedite notifications.

8.1.1 PURPOSE

1. Direct the activities of the Control Room and EOF Emergency Communicator.

8.1.2 RESPONSIBILITIES

1. The CR Emergency Communicator's responsibilities are:
 - a. Overall coordination of communications to ensure that required notifications are made per requirements of this procedure until relieved by another qualified individual.
 - b. Ensure that appropriate ERO staff is augmented via Dialogic or other means.
 - Dialogic may be initiated by any individual trained on the operation of the system.
2. The EOF Emergency Communicator's responsibilities are:
 - a. Overall coordination of communications to ensure that required notifications are made per requirements of this procedure until relieved by another qualified individual.
 - b. Keep the ERM and EOF staff informed of communications activities and needs of the communications staff.

8.1.3 INSTRUCTIONS

1. Staff the Emergency Communicator function as follows:
 - a. Control Room
 - 1 Emergency Communicator;
 - 1 SPDS Communicator if ERFIS OOS or as desired.

8.1.3.1 (Continued)

b. EOF

- 1 Emergency Communicator;
- 1 State/County Emergency Communicator;
- 1 Public Information Emergency Communicator;

c. TSC

- 1 NRC Emergency Communicator;
- 1 SPDS Communicator if ERFIS OOS or as desired.

d. Practice

- As desired, use appropriate Attachment, 8.1.5.9, Control Room Practice Scenario Use or 8.1.5.10, Simulator Dialogic Scenario Use for Control Room or Simulator.

2. If the Electronic Display System (EDS) is not operable:

a. Complete emergency notification forms manually and fax forms using a stand alone fax machine.

- Manual log and notification forms are included as Attachments 8.1.5.1, Emergency Notification Form and Instructions and 8.1.5.3, Communications Log.

8.1.3 (Continued)

3. If EDS is operable, log on to the system.
 - a. Control Room staff should use the Control Room Shift Supervisor (CRSS) position login for appropriate access to forms and approval authority.
4. For first notification only, declare an event on EDS.

NOTE: If there are any means practical, notification of offsite agencies and the ERO should be performed simultaneously.

5. Complete the Emergency Notification Form.
 - a. Instructions for completing the manual form are included as an Attachment 8.1.5.1 to this procedure.
 - b. For electronic forms, avoid placing the cursor in the approval section of the form prior to actual approval of the form. Premature approval will not allow any SEC/ERM comments to be incorporated without clearing the entire form.
 - c. An optional checklist for required notification is available as Attachment 8.1.5.2, Communications Checklist.
6. If time allows, during SEC/ERM notification form approval, begin working on completing information required to initiate Dialogic.
 - a. Dialogic initiation forms are included as Attachment 8.1.5.4, Automated ERO Notification Form (Dialogic).
 - b. During EP supervised drills, Dialogic use will be specified. The ERO may be activated either by scenario, number 3333, or manual beeper initiation. (Attachment 8.1.5.11)

8.1.3.6 (Continued)

- c. Use ONLY the Simulator Dialogic Scenario (3335) for simulator training.
 - This scenario will initiate only the Simulator beeper.
 - Use of the Manual Beeper Initiation Attachment, Attachment 8.1.5.11, will initiate ALL ERO beepers.
7. Obtain SEC/ERM approval for information on the emergency notification form and fax to offsite agencies.
8. Transmit notification form to offsite agencies:
 - a. Use Selective Signaling System, or
 - Dial A1 on Selective Signaling phone to simultaneously conference all parties.
 - The press-to-talk bar must be depressed for other personnel to hear your voice.
 - The external speaker is active for the first 10 seconds after a call is placed. Any sounds or conversation will be transmitted over the external speaker to offsite phones.
 - b. Northern Telecommunications (Meridian) or ESSX phone system.
 - Instructions for use of the Northern Telecommunications phone are included as Attachment 8.1.5.7, Back-up method for Tel-Conferencing State and County Warning Points using Northern Telecom Telephone System.
 - Emergency communications protocols and instructions as well as ESSX instructions are provided as Attachments 8.1.5.6, Emergency Communications Equipment Instructions/Protocol and 8.1.5.8, ESSX Telephone Service Off-Site Communications System.

8.1.3.8 (Continued)

- c. Notifications are required within:
 - 15 minutes of an initial classification, or
 - 30-60 minutes for a follow up notification.
 - d. Conduct a roll call by agency to determine locations on line.
 - Roll call is to determine that at least one representative from each agency is on line.
 - e. Document time of first voice contact and place a check next to locations contacted (i.e., items 1-4) on page 2 of the Notification Form (Attachment 8.1.5.1).
 - f. After the message has been reviewed with offsite agencies and any questions answered:
 - Enter names, titles, times, and date of personnel on line. This time will be the "start" time for the follow up notification.
9. The Control Room Staff will augment the Emergency Response Organization, as appropriate, by:
- a. The assigned person will obtain a copy of Attachment 8.1.5.4, Automated ERO Notification Form (Dialogic) to initiate the system.
 - b. Enter the current date and time on the form.

8.1.3.9 (Continued)

- c. Check the box next to the appropriate scenario using information obtained from the SEC/ERM or designee.
 - For training not associated with ERO training exercises, use ONLY scenario 3334 or 3335 as these will only activate the Control Room or Simulator beeper respectively.
 - For ERO training exercises use the method specified by Controller/Evaluator staff
 - * Scenario 3333 may be used to call out ERO personnel for training exercises (drills).
 - Use of the Manual Initiation of the ERO Beepers attachment will initiate ALL ERO beepers.
- d. Choose the appropriate event code (numbers displayed in the group call beepers) using information obtained from the SSO/SEC or designee.
- e. Enter the event code in the spaces provided below the description of the choices.
- f. Dialogic fax an execution report to the Control Room FAX machine. Include this report with all information sent to the EP Staff.
- g. If the beepers were not activated due to Dialogic System failure;
 - Indications of Dialogic System failure and information to be provided to NREC "A" is provided in the "NREC" section of the ERO Phonebook. See Control Room instructions for contacting NREC "A."
 - Manually initiate the beepers, per Attachment 8.1.5.11, Manual Initiation of the ERO Beepers, and
 - Contact NREC "A" to augment non-beeper personnel.

8.1.3 (Continued)

10. The Dialogic System should not be initiated a second time if ERO call out has already been initiated, except as noted below.
 - a. The exception to this is initiation of the manual JIC call out scenario.
 - JIC manual call out is required if the emergency escalates from a lower classification, to a Site Area Emergency or discretionary activation below Site Area Emergency is desired.
 - The JIC manual call out will only augment the non-beeper personnel. JIC beeper personnel receive the group page.
 - b. Escalation of the emergency classification after initial callout should be announced via manual beeper initiation. See manual activation Attachment 8.1.5.11, Manual Initiation of the ERO Beepers.
11. Immediately upon completion of State and County notifications and within 60 minutes of declaration of the emergency, notify the NRC.
 - a. Forms are included as Attachment 8.1.5.12, Event Notification Worksheet.
 - b. Use ETS (primary) or Meridian phone for notification.
 - c. Additional information is available in EPNOT-04, TSC NRC Emergency Communicator.
12. ERO augmentation or spurious activations may be terminated by manually initiating the beepers with a 0*0*0 code.

8.1.3 (Continued)

13. Make follow up notifications to the State and County agencies:
 - a. Follow up notifications are required:
 - Every 30 - 60 minutes, or
 - for any event which could increase or decrease public safety or affect protective action recommendations. Examples include fires, bomb threats, changes in release rate greater than 15% of previously reported value, site evacuations, entry into recovery operations, etc.
14. If the classification is Alert or higher, make notifications to American Nuclear Insurers (ANI) and the Institute of Nuclear Power Operations (INPO).
 - a. Notifications are required within 2 hours.
 - b. Off site phone numbers are available in the ERO phone book.
15. Obtain responses for questions from offsite agencies.
 - a. Information not contained on status boards or concerning future status of the plant must be approved by the SEC/ERM or ERM depending on facility activation status.
16. If the TSC and EOF are activating, perform a turnover with NRC and EOF Emergency Communicators.
 - a. Ensure completion times of the last notification (i.e., the Emergency Notification Form) are available, via fax or electronic means, for the EOF Communications Staff.
17. Upon event termination, ensure notification of off site agencies which have activated.
18. Inform the Information Technology group of system use (on next business day if weekend, holiday or nightshift) so the databases may be cleared. This maintains the system ready for the next use. This notification may be accomplished via e-mail or telephone.

8.1.4 RECORDS

N/A

8.1.5 ATTACHMENTS

1. Emergency Notification Form
2. Communications Checklist
3. Communications Log
4. Automated ERO Notification Form (Dialogic)
5. Safety Parameter Display System/Plant Status Data Sheet
6. Emergency Communications Equipment Instructions/Operating Protocol
7. Back-up Method for Tele-Conferencing State and County Warning Points (WP) Using Northern Telecom Telephone System
8. ESSX Telephone Service Off-Site Communications System
9. Control Room Practical Scenario Use
10. Simulator Dialogic Scenario Use
11. Manual Initiation of the ERO Pagers
12. Event Notification Worksheet

EMERGENCY NOTIFICATION FORM

1. A THIS IS A DRILL B ACTUAL EMERGENCY INITIAL FOLLOW-UP*

2. SITE: H.B. ROBINSON UNIT: 2 REPORTED BY: _____

3. TRANSMITTAL TIME/DATE: _____ / _____ / _____ CONFIRMATION PHONE NO.: _____
 (Eastern) mm dd yy

4. AUTHENTICATION (If Required): _____ (No.) _____ (Code)

5. EMERGENCY CLASSIFICATION:
 A NOTIFICATION OF UNUSUAL EVENT B ALERT C SITE AREA EMERGENCY D GENERAL EMERGENCY

6. A EMERGENCY DECLARATION AT B (If B, go to number 16) TERMINATION AT TIME/DATE: _____ / _____ / _____
 (Eastern) mm dd yy

7. EMERGENCY DESCRIPTION /REMARKS: _____

8. PLANT CONDITION: A IMPROVING B STABLE C DEGRADING

9. REACTOR STATUS: A SHUTDOWN TIME/DATE: _____ / _____ / _____ B _____ % POWER
 (Eastern) mm dd yy

10. EMERGENCY RELEASE(S): A NONE (Go to Item 14) B POTENTIAL (Go to Item 14)
 C IS OCCURRING D HAS OCCURRED

**11. TYPE OF RELEASE: A ELEVATED B GROUND LEVEL

A AIRBORNE: STARTED _____ / _____ / _____ STOPPED _____ / _____ / _____
 (Eastern Time) mm dd yy (Eastern Time) mm dd yy

B LIQUID: STARTED _____ / _____ / _____ STOPPED _____ / _____ / _____
 (Eastern Time) mm dd yy (Eastern Time) mm dd yy

**12. RELEASE MAGNITUDE: A CURIES/SEC. B CURIES NORMAL OPER. LIMITS: C BELOW D ABOVE

A NOBLE GASES _____ B IODINES _____

C PARTICULATES _____ D OTHER _____

**13. ESTIMATE OF PROJECTED OFF-SITE DOSE: NEW UNCHANGED

TEDE Thyroid CDE PROJECTION TIME: _____
 mrem mrem (Eastern)

SITE BOUNDARY ESTIMATED DURATION: _____ HRS.
 2 MILES _____
 5 MILES _____
 10 MILES _____

**14. METEOROLOGICAL DATA: A WIND DIRECTION (from) _____ B SPEED (mph) _____
 C STABILITY CLASS _____ D PRECIPITATION (type) _____

15. RECOMMENDED PROTECTIVE ACTIONS:
 A NO RECOMMENDED PROTECTIVE ACTIONS B EVACUATE _____
 C SHELTER IN-PLACE _____ D OTHER _____

16. APPROVED BY: _____ TIME/DATE: _____ / _____ / _____
 (Name) (Title) (Eastern) mm dd yy

* If items 8-14 have not changed, only items 1-7 and 15-16 are required to be completed.

** Information may not be available on initial notifications.

EMERGENCY NOTIFICATION FORM

PERSONS AND AGENCIES ALERTED

TIME FIRST VOICE CONTACT IS MADE AFTER ENF APPROVAL: _____

Message Senders: Record the name, title, date, time and check Warning Point, EOC notified.

1. State of South Carolina Warning Point ____: Backup Warning Point ____: Other ____

_____ / _____

_____ / _____

Name Title Date Time*

2. Darlington County Warning Point ____: EOC ____: Other ____

_____ / _____

_____ / _____

Name Title Date Time*

3. Lee County Warning Point ____: EOC ____: Other ____

_____ / _____

_____ / _____

Name Title Date Time*

4. Chesterfield County Warning Point ____: EOC ____: Other ____

_____ / _____

_____ / _____

Name Title Date Time*

5. Nuclear Regulatory Commission (via ETS or Bell Phone)

_____ / _____

Name Title Date Time

6. NRC Resident Inspector

_____ / _____

Name Title Date Time

7. Agency/Location _____

_____ / _____

Name Title Date Time

8. Agency/Location _____

_____ / _____

Name Title Date Time

* This time will indicate final voice contact, the last time listed will become "start time" for subsequent follow up notifications.

ATTACHMENT 8.1.5.1
Page 3 of 7
EMERGENCY NOTIFICATION FORM
INSTRUCTIONS FOR COMPLETION

Initial notifications are to be made in 15 minutes. Follow-up notifications are required within 30 - 60 minutes.

All efforts should be expended to obtain information required for the Emergency Notification Form. However in instances where information is not available or known incorrect at the time a message is due, "to be provided" should be placed in the appropriate blank(s). This missing information is to be promptly retrieved or corrected and transmitted to the State and County agencies as soon as it is available.

Messages should include an up-to-date description of what is happening at the plant within the constraints of timely notifications. To ensure messages contain adequate and accurate information about current plant conditions, messages should be developed as promptly as possible and, if time permits, reviewed by the State/County Communicator prior to approval. This review will also allow the State/County Communicator a better understanding of the message and therefore should result in a more successful transmission. It may be necessary to determine a "cut off time" for new message information so that these reviews can be made.

Item

Instructions

Message # The message number is consecutive from the initial notification to the termination message. It does not begin again at 1 for any reason during the course of an emergency event.

1. To protect the health and safety of the public:

IF this event is **NOT** an actual event, **THEN** indicate **"THIS IS A DRILL"** on the Emergency Notification Form.

IF this event **IS** an actual event, **THEN** indicate **"ACTUAL EMERGENCY"** on the Emergency Notification Form.

All messages other than changes in classification are follow-up.

2. Verify "H. B. Robinson" and Unit 2 are on the form and the person who will be reading the message to the State and County personnel is the name to be written in the "reported by:" space. Normally this individual will be the State/County Communicator when messages are transmitted from the EOF.

ATTACHMENT 8.1.5.1
Page 4 of 7
EMERGENCY NOTIFICATION FORM

Item

Instructions

3. "Transmittal time/date:" Is automatically placed on electronic form. Time of first voice contact with any offsite agency is verified on the phone by roll call and is recorded on the notification form*.
- Confirmation number is a number that any offsite agency can call to verify the message is authentic. **Ensure the number given is a location where the phone will be answered. DHEC is required to verify the message by their procedure in 15 minutes.** Suggested confirmation numbers depend on the origin of the notification call:
- Control Room - 843-383-3685 (Shift Tech. Aide's Desk ESSX phone)
- EOF -843-383-3681 (EOF EC desk)
- Simulator - Use the confirmation number established for this purpose.
(843-857-5039)
4. Authentication is not required but the State/County representatives should be asked, "Would anyone like to authenticate this message?" If yes, they will pick a number and you respond with the corresponding word (see the authentication code list in each Communicator binder). Both the number and word are logged on the form or "N/A" if no authentication is required. This information will be entered after the form is initially developed and transmitted to off site agencies.
- * The times on the Emergency Notification Form should be in the proper chronological order. Item 6 (declaration time) should be the first time recorded followed by Item 16 (approval time) and the last should be Item 3 (transmittal time). For example Item 6 at 12:00 and Item 16 at 12:10 and Item 3 at 12:14. The first voice contact time should not be documented until an approved form is available.
5. Mark the classification that is being declared if it is an initial message for that classification, or the same classification as the last notification if it is a follow-up or a termination message. Any plant conditions/events which trigger emergency classifications shall be listed in the Description section (Item 7) but only the highest classification shall be marked.

ATTACHMENT 8.1.5.1
Page 5 of 7
EMERGENCY NOTIFICATION FORM

- | <u>Item</u> | <u>Instructions</u> |
|-------------|---|
| 6. | Emergency declaration or termination is to be marked with the time* the event in Item 5 was declared. This time should not change unless the classification has changed or the event has been terminated. If termination is chosen only Steps 1 through 6 and 16 should be completed. |
| 7. | Emergency description/remarks should contain a short narrative of the event in progress. This narrative should be in "layman's terms" and not include any slang or acronyms (i.e., ATWS, RCP, WGDT, etc.) commonly used at the plant. This description must be easily understood by individuals without nuclear industry experience. |
| 8. | The appropriate plant condition is to be marked. The Plant Operations Advisor, or the Technical Analysis Manager should be consulted if assistance is needed in making this determination. If there is any doubt about the condition of the plant, mark the status <u>degrading</u> . |
| 9. | If Reactor is shutdown, mark this choice and fill in the time and date of shutdown. If the Reactor is at power, "N/A" the time and date and indicate the current Reactor power. |
| 10. | Mark appropriate block for emergency release. Potential should be marked if, based on plant data, a trend can be observed that will predict when the final barrier to release will be breached and there are no systems capable of mitigating the trend. |
| 11. | Mark appropriate block for type of release. The release location will be determined by the RCM. For multiple release locations, the majority contributor is used for the determination of location. If the release location is unknown, assume a ground level release. If the release is from the stack, mark elevated regardless of wind speed. A release from any location other than the stack is considered a ground level release. Mark if the release is airborne or liquid. Record the start and stop time and date of ACTUAL RELEASE in the spaces provided. If the release is underway, put N/A in the block for time release stopped. |

ATTACHMENT 8.1.5.1
Page 6 of 7
EMERGENCY NOTIFICATION FORM

Item

Instructions

12. Check the release units as "CURIES." Check the block for "BELOW" or "ABOVE" beside "NORMAL OPER. LIMITS" if the release is below or above the Technical Specifications operating release limits. Enter the release magnitude as Xe¹³³ TEDE Equivalent in the "NOBLE GASES" blank and I¹³¹ CDE Equivalent in the "IODINES" blank. Enter "N/A" in the blanks for "PARTICULATES" and "OTHER." The values for Xe¹³³ TEDE Equivalent and I¹³¹ CDE Equivalent are provided by the Dose Projection Program and may be obtained from the Radiological Control Manager or the person performing the dose projection.

* The times on the Emergency Notification Form should be in the proper chronological order. Item 6 (declaration time) should be the first time recorded followed by Item 16 (approval time) and the last should be Item 3 (transmittal time). For example Item 6 at 12:00 and Item 16 at 12:10 and Item 3 at 12:14. The first voice contact time should not be documented until an approved form is available.

13. Mark the appropriate box for estimate of projected offsite dose. Mark the new box if this is the first dose projection or if the release/release rate has changed significantly (approximately 15%). Check with the SEC, Plant Operations Director, or the Technical Analysis Manager for an estimate of the release duration. The estimated duration must start from the beginning of the release until the estimated (or actual) end of the release. Use 1 hour if the expected duration of release is not yet available. Complete the dose columns in (mrem) for each distance away from the site. Ensure that units are in mrem, and do not change the units on the form. Enter the time that the dose projection data was collected (check computer output) in the blank for "PROJECTION TIME."

14. Obtain the required meteorological data from ERFIS, or the National Weather Service Office (see ERO Telephone Book), as available. Ensure the wind direction is "from" if it is obtained from a source other than ERFIS. Stability class is available in the procedure for dose projection (EPRAD-03) if ERFIS is not available.

ATTACHMENT 8.1.5.1
Page 7 of 7
EMERGENCY NOTIFICATION FORM

Item

Instructions

15. Mark the appropriate box for the recommended protective action. If evacuate or shelter in place are chosen, list the sectors for which the recommendation is applicable (i.e., A-0, A-1, B-1, etc.). If the General Emergency is declared you can not check "No Recommended Protective Action".
16. The message is to be signed (approved) by the Site Emergency Coordinator if transmitted from the Control Room or TSC, or by the Emergency Response Manager if transmitted from the EOF. This approval* must be obtained prior to transmitting the notification to the State and County agencies. Any changes made between this signature and the release of the message must be initialed/approved by the SEC or ERM.

NOTES: (at bottom)	If Items 8 through 14 (Plant Condition and Dose Projection Information) have not changed, then only Items 1 through 7 along with 15 and 16 are required to be completed on subsequent notifications. For initial notifications if the information in Items 11 through 14 is not available, it may be so noted on the form by writing "not available".
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- * The times on the Emergency Notification Form should be in the proper chronological order. Item 6 (Declaration Time) should be the first time recorded followed by Item 16 (Approval Time) and the last should be Item 3 (Transmittal Time). For example Item 6 at 12:00 and Item 16 at 12:10 and Item 3 at 12:14. The first voice contact time should not be documented until an approved form is available.

ATTACHMENT 8.1.5.2
Page 1 of 1
COMMUNICATIONS CHECKLIST

Event Classification:

Unusual Event Alert Site Area Emergency General Emergency

Required Emergency Notifications

Time Declared	Maximum Contact Time (Min.)	Notif. Due By	Notif. Complete	Follow-up Due w/in	Agency	Phone/ Backup
_____	+ 15 = ASAP and no greater than 15	_____	_____ State _____ Darling _____ Lee _____ Chester	30-60 minutes	Counties WP & EOC State Warning Point & Backup Warning Point	Sel. Sig. A1 (See ERO Phone Book for back-up numbers)
_____	+ 60 = ASAP and no greater than 60	_____	_____	As needed	NRC	ETS See sticker or Emergency Response Phone Book

Recommended Emergency Notifications

Time Declared	Contact Time (Min.)	Notif. Due By	Notif. Complete	Follow-up Due w/in	Agency	Phone/ Backup
_____	+ 60 =	_____	_____	As Needed	NRC Site Inspector	See Emergency Response Phone Book
Following applicable to ALERT or higher classification only						
_____	+ 120 =	_____	_____	As Needed	ANI	See Emergency Response Phone Book
_____	+ 120 =	_____	_____	As Needed	INPO	See Emergency Response Phone Book

Instructions: This form may be used for each change in event classification.

AUTOMATED ERO NOTIFICATION FORM (DIALOGIC)

Date: _____ Time: _____

<u>Check Choice</u>	<u>Scenario Number</u>	<u>Description</u>	<u>Run Time</u>
<input type="checkbox"/>	30	Beeper Failure	45
<input type="checkbox"/>	31	GE approach - west	45
<input type="checkbox"/>	32	GE approach - east	45
<input type="checkbox"/>	33	GE approach - south	45
<input type="checkbox"/>	34	GE approach - north	45
<input type="checkbox"/>	35	GE no approach inst.	45
<input type="checkbox"/>	36	Site Area Emergency	45
<input type="checkbox"/>	37	Alert	45
<input type="checkbox"/>	38	UE with facility act.	45
<input type="checkbox"/>	39	UE no facility act.	15
<input type="checkbox"/>	41	JIC non-beeper personnel	60
<input type="checkbox"/>	3333	Training Exercise Scenario	75
<input type="checkbox"/>	3334	Ops Practice Scenario	10
<input type="checkbox"/>	3335	Sim. Dialogic Scenario	05

EVENT CODES (DISPLAYED ON GROUP CALL PAGER)

<u>CLASSIFICATION</u>	<u>FACILITY</u>	<u>INFORMATION</u>
0 = none	0 = none	0 = test
1 = U.E.	1 = all	1 = call 857-1777
2 = Alert	2 = alternate	2 = call 857-1778
3 = S.A.E.		3 = Real
4 = G.E.		4 = Drill/Exercise

Code chosen: _____ * _____ * _____
 (Enter No.) (star) (Enter No.) (star) (Enter No.)

Approved by: _____
 SEC/ERM

Time Dialogic was activated _____ by _____ (initials).
 (Time)

SAFETY PARAMETER DISPLAY SYSTEM/PLANT STATUS DATA SHEET

EMERGENCY CLASSIFICATION (CIRCLE)
 UNUSUAL EVENT SITE AREA EMERGENCY

Date/Time: _____ / _____

Completed By: _____

ALERT

GENERAL EMERGENCY

ENVIRONMENTAL SYSTEMS

GROUND WIND SPEED (MPH) _____
 ELEVATED WIND SPEED (MPH) _____
 GROUND WIND DIR. (° FROM) _____
 ELEVATED WIND DIR. (° FROM) _____
 AIR TEMPERATURE (°F) _____
 STABILITY CLASS _____

AREA RADIATION MONITORS

R-1 CONTROL ROOM (mrem/HR) _____
 R-2 CONT. AREA (mrem/HR) _____
 R-3 PASS PANEL AREA (mrem/HR) _____
 R-4 CHG. PUMP RM (mrem/HR) _____
 R-5 SPENT FUEL PIT (mrem/HR) _____
 R-6 SAMPLING ROOM (mrem/HR) _____
 R-7 IN-CORE INST (mrem/HR) _____
 R-8 DRUM. RM. (mrem/HR) _____
 R-9 FAILED FUEL (mrem/HR) _____
 R-33 MON BLDG (mrem/HR) _____

PROCESS RADIATION MONITORS

R-11 CV VENT PART. (CPM) _____
 R-12 CV VENT GAS (CPM) _____
 R-14A "P" PLT VNT (CPM) _____
 R-14B "I" PLT VNT (CPM) _____
 R-14C "NG" PLT VNT (CPM) _____
 R-15 COND. AIR EJEC. (CPM) _____
 R-16 CV FAN CW (CPM) _____
 R-17 COMP. CW (CPM) _____
 R-18 WASTE DISPOSAL (CPM) _____
 R-19A S/G A BLOWDOWN (CPM) _____
 R-19B S/G B BLOWDOWN (CPM) _____
 R-19C S/G C BLOWDOWN (CPM) _____
 R-20 FUEL HDLG BASE (CPM) _____
 R-21 FUEL HDLG UPPER (CPM) _____

ACCIDENT RADIATION MONITORS

R-30 F.H. BASE HI RG (mrem/HR) _____
 R-31A "A" MN STM (mrem/HR) _____
 R-31B "B" MN STM (mrem/HR) _____
 R-31C "C" MN STM (mrem/HR) _____
 R-32A CV HI RG (REM/HR) _____
 R-32B CV HI RG (REM/HR) _____
 R-14D PLT VNT GAS (MID) (CPM) _____
 R-14E PLT VNT GAS (HI) (CPM) _____
 R-37 CONDENSATE POLISHER (CPM) _____

CONTAINMENT STATUS

PRESSURE (PSIG) _____
 TEMPERATURE (°F) _____
 HYDROGEN CONC. (%) _____
 SUMP LEVEL (INCHES) _____
 RWST LEVEL (%) _____

PRIMARY SYSTEM

RCS PRESSURE (PSIG) _____
 PZR LEVEL (%) _____
 TAVE (°F) _____
 LOOP A TH (°F) _____
 TC (°F) _____
 ΔT (°F) _____
 LOOP B TH (°F) _____
 TC (°F) _____
 ΔT (°F) _____
 LOOP C TH (°F) _____
 TC (°F) _____
 ΔT (°F) _____
 SUBCOOLING (°F) _____
 CHARGING FLOW (GPM) _____
 LETDOWN FLOW (GPM) _____
 REACTOR POWER (%) _____

ACTIVITY:

GROSS (Uci/mi) _____
¹³¹I (Uci/mi) _____
 AVG 5 HOTTEST T/Cs (°F) _____
 BORON CONC. (PPM) _____

SECONDARY SYSTEM

S/G A
 LEV.-WR(%) _____ NR(%) _____
 PRESS (PSIG) _____
 FEED (MPPH) _____
 STEAM (MPPH) _____
 ACT. (Uci/ml) _____
 S/G B
 LEV.-WR(%) _____ NR(%) _____
 PRESS (PSIG) _____
 FEED (MPPH) _____
 STEAM (MPPH) _____
 ACT. (Uci/ml) _____
 S/G C
 LEV.-WR(%) _____ NR(%) _____
 PRESS (PSIG) _____
 FEED (MPPH) _____
 STEAM (MPPH) _____
 ACT. (Uci/ml) _____
 PRI/SEC. LK. RT (GPM) _____

ENGINEERED SAFETY FEATURES

SI ACTUATED: TIME _____
 RESET: TIME _____
 CS ACTUATED: TIME _____
 RESET: TIME _____
 CONT. ISO. A ACTUATED: TIME _____
 RESET: TIME _____
 CONT. ISO. B ACTUATED: TIME _____
 RESET: TIME _____
 SPRAY ADD TANK LEVEL (%) _____
 SI COLD-LEG FLOW (GPM) _____
 SI HOT-LEG INJECT START _____

EQUIPMENT STATUS

N = NOT AVAILABLE
 A = AVAILABLE (NOT OPERATING)
 O = OPERATING
 E = ENERGIZED

PRIMARY

RCP A _____ B _____ C _____
 CHG PUMP A _____ B _____ C _____
 SI PUMP A _____ B _____ C _____
 CS PUMP A _____ B _____
 RHR PUMP A _____ B _____
 HVH 1 _____ 2 _____ 3 _____ 4 _____

SECONDARY

CST LEVEL (%) _____
 FEED PUMP A _____ B _____
 COND PUMP A _____ B _____
 AFW MOTOR A _____ B _____
 AFW STEAM _____
 MSIV A _____ B _____ C _____

ELECTRICAL

EDG A _____ B _____
 DS/DG _____
 OFFSITE _____
 EMER. BUS E1 _____ E2 _____
 FROM: OFFSITE _____ D.G. _____

FANS

HVE 1A _____ 1B _____
 HVE 2A _____ 2B _____
 HVE 5A _____ 5B _____
 HVE 15 _____ 15A _____

LEGEND:

OSH = OFF SCALE HIGH
 OSL = OFF SCALE LOW
 OOS = OUT OF SERVICE
 ISOL = ISOLATED

**EMERGENCY COMMUNICATIONS EQUIPMENT INSTRUCTIONS/OPERATING
PROTOCOL**

1.0 RNP SELECTIVE SIGNALING SYSTEM

1.0.1 The RNP Selective Signaling System consists of equipment and circuits linking RNP with the offsite agencies involved in initial emergency notifications.

1.0.2 The Control Room, TSC, EOF and the Work Control Center have these phones.

1.0.3 This system can quickly conference the offsite agencies for notifications using the following:

1.0.3.1 Lift the handset, NO dial tone will be heard;

NOTE: Tones will be heard on the handset when the keys are depressed on the key pad. No ringing will be heard.

1.0.3.2 Dial the appropriate number from the listing below for the agencies to be contacted;

<u>TO DIAL</u>	<u>DIALING CODE</u>
All WPs and EOCs	A1
All WPs	A2
All EOCs	A3
All CPL locations	A4
Decision Line	A5

For individual Dialing Codes, see EPPRO-02 "Maintenance and Testing", Attachment 8.2.30.2 "Selective Signaling System Dialing Codes".

NOTE: After dialing the phones being called will ring, flash a red light, and turn on the phone speaker for 10 seconds, or until answered. Do Not talk for the first 10 seconds except to address the people on the line.

1.0.3.3 When people answer, press the "Press to Talk" bar and ask them to hold for a message/drill/test;

EMERGENCY COMMUNICATIONS EQUIPMENT INSTRUCTIONS/OPERATING PROTOCOL

- 1.0.3.4 When people are no longer coming on line, hold a roll call and proceed with the message/drill/test;
- 1.0.3.5 If a location did not answer or you need to add another party, dial the appropriate dialing code from above that is associated with those agencies.
- 1.0.3.6 If problems with this system occur during drills, exercises or emergencies, notify the Administrative and Logistics Manager.
- 1.0.3.7 If problems occur at any other time, notify Telecommunications.
- 1.0.3.8 If Selective Signaling System is inoperable, use the Northern Telephone System or the Corporate Telephone System as shown on ATTACHMENT 8.1.5.7, Back-up Method for Tele-Conferencing State Warning Points Using Northern Telecom Telephone System.

1.1 RNP EMERGENCY TELEPHONE SYSTEM (NORTHERN TELECOM)

- 1.1.1 The RNP emergency telephone consists of dedicated lines between facilities at RNP and other CP&L locations. These lines are accessed via a Northern Telecom Meridian private branch exchange (PBX). This system supports the general plant environment as well.
- 1.1.2 The following are phone features used on the Meridian phones:
 - 1.1.2.1 Volume Control - The adjustment for ringing, headset and speaker volume is accomplished through the rocking switch below the keypad.
 - 1.1.2.2 Line/Feature Buttons - Located to right of keypad and have liquid crystal display (LCD) status indications.
 - 1.1.2.3 KEYPAD - Centrally located to right of handset and used for call placement or feature usage.

**EMERGENCY COMMUNICATIONS EQUIPMENT INSTRUCTIONS/OPERATING
PROTOCOL**

- 1.1.3 The following are feature buttons used on the Meridian phones:
- 1.1.3.1 **HANDSFREE/MUTE** - The Handsfree/Mute key is located as the top left button of the Line/Feature button strip. It is used to alternate between full "speaker phone" capability. Receiving calls, press **HANDSFREE/MUTE** and speak. To place a call, press **HANDSFREE/MUTE** and dial number. To suppress microphone during handsfree call, press **HANDSFREE/MUTE**. To reconnect microphone, press **HANDSFREE/MUTE**.
- 1.1.3.2 **TRANSFER** - Allows calls to be transferred to another number. Press **TRANSFER**, dial number to transfer to, announce caller if desired, press **TRANSFER**, and hang up. Unannounced transfer is allowed.
- 1.1.3.3 **CONFERENCE CALLS** - Up to six parties can be included on one conference. Parties can be a combination of extensions and outside lines. Up to five outside lines. To establish a conference call: Dial first party and establish contact. Press **CONFERENCE**, dial next party, and press **CONFERENCE** to connect all parties. Repeat previous step for each successive party to be added.
- 1.1.3.4 **CALL FORWARD** - Call Forward allows incoming calls to be redirected to another phone. To forward your calls, press **FORWARD**, dial forward to number, press **FORWARD**. To cancel forwarding, press **FORWARD**.
- 1.1.3.5 **RING AGAIN** - Ring Again allows you to have the system monitor a busy extension or trunk and notify you when it is available to take your call. To activate Ring Again on busy signal, press **RING AGAIN**, press **RLS** or hang up. When target is free you will receive Ring Again tone. To establish call, press **RING AGAIN**. To cancel Ring Again, press **RING AGAIN** before receiving notification (Ring Again) tone.
- 1.1.3.6 **AUTODIAL** - This feature allows you to store and retrieve a frequently called number. To store a number, select and press an **AUTODIAL** key, dial number (up to 23 digits), press **AUTODIAL** key again. To place call, select and press **LINE** key, select and press **AUTODIAL** key

**EMERGENCY COMMUNICATIONS EQUIPMENT INSTRUCTIONS/OPERATING
PROTOCOL**

- 1.1.3.7 **LAST NUMBER REDIAL** - Allows most recently dialed number to be called again. To operate, select line where number was previously dialed and press **LINE** key twice.
- 1.1.3.8 **HOLD** - This button allows you to place a call on hold while you attend to another matter. To operate, press **HOLD**, press RLS or hang up. To retrieve call, press **LINE** key with slow flashing indicator.
- 1.1.3.9 **PROGRAM** - The **PROGRAM** key allows you to set seven attributes of the Meridian phone. To set attributes:
- A. **VOLUME** - Press **PROGRAM**, Dial 00, use volume rocker switch to adjust down («) or up (») , press **PROGRAM** to save.
 - B. **CONTRAST ADJUSTMENT** - Press **PROGRAM**, Dial 02, use volume rocker switch to adjust lighter («) or darker (»), press **PROGRAM** to save.
 - C. **CALL TIMER** - Enables time display of call duration. Press **PROGRAM**, Dial 03, use either side of volume rocker switch to turn on or off, press **PROGRAM**.
 - D. **IDLE SCREEN FORMAT** - Eight possible selections. Press **PROGRAM**, Dial 04, use volume rocker switch up («) or down (») to make selection, press **PROGRAM**.
 - E. **KEY CLICK** - Enables/Disables audible key click. Press **PROGRAM**, Dial 09, use either side of volume rocker switch to turn on or off, press **PROGRAM**.

NOTE: Two other attributes (LANGUAGE SELECTION and PREDIAL RECALL) are seldom used. To alter these attributes, consult Meridian Quick Reference Card - Display Module.

**EMERGENCY COMMUNICATIONS EQUIPMENT INSTRUCTIONS/OPERATING
PROTOCOL****2.0 CP&L CORPORATE TELEPHONE SYSTEM**

2.1 Corporate Telephone System (CARONET) - Interconnected through the plant PBX, the Corporate Telephone System provides a means to communicate with any other CP&L locations as well as off system locations. The system can use the public switched network or company owned circuits to complete calls.

2.2 Dedicated Telephone System to Load Dispatcher - This system provides links between the Control Room and the load dispatcher. Transmission facilities are microwave radio. These lines appear on several phones in the control room and are selected by pushing the appropriate button on a multi-button phone. The lines are automatically rung at the load dispatcher identifying Robinson as the caller.

3.0 NRC TELEPHONE SYSTEMS

3.1 NRC Emergency Telecommunication System (ETS)- Phones connected to a dedicated independent telephone system route. A 10 digit telephone number must be dialed to access the NRC Operations Center. NRC ETS phones are located in the Control Room, Technical Support Center, Emergency Operations Facility and the NRC Residents Office.

3.2 NRC Health Physics Network (ETS)

The NRC also will also use the dedicated telephone system for communications to NRC regional and national offices. Telephones connected to this system are located for access by Health Physics, and NRC personnel.

**EMERGENCY COMMUNICATIONS EQUIPMENT INSTRUCTIONS/OPERATING
PROTOCOL**

- 4.0 RNP EMERGENCY RADIO SYSTEM - consists of commercial two-way radio transceivers that are used for onsite, in plant, offsite environmental monitoring and State of S.C. point to point radio communications. Those radio systems available are:
- 4.1 Motorola - is the FM two-way radio base station and remote consoles that provides a "Private Line" tone coded squelch. The console includes provisions for tone remote control operation of the private line. Equipment is identified as follows:
- 4.1.1 Motorola Base Station - located in the EOF Communications Equipment Room 417. Provides the capability of manually isolating communications for use as private lines, by selecting the switch inside the cabinet.
- 4.1.2 Motorola T1605 - are compact remote control console located in the EOF. These consoles provide point to point communications for:
- 4.1.2.1 EOF - Environmental Monitoring/dose projection
- 4.1.2.2 EOF - Communications Work Area with Paging Encoder
- 4.1.3 Operating instructions:
- 4.1.3.1 Ensure 100 unit is plugged into AC wall circuit.
- 4.1.3.2 Motorola Flexar unit has to be on Channel 6 to talk. Channel 6 is selected by depressing the F2 button and pushing in the button adjacent to the phone receiver. Pushing in the button adjacent to the phone receiver locks in the unit to Channel 6.
- 4.1.3.3 When this occurs, pick up the transmitter handset (transmitter looks like a phone) and depress the button adjacent to the receiver and give your message. The person with the beeper will hear your message.
- 4.1.3.4 Cut system off when not in use

EMERGENCY COMMUNICATIONS EQUIPMENT INSTRUCTIONS/OPERATING PROTOCOL

5.0 ESSX TELEPHONE SYSTEM

5.1 ESSX Telephone System (Back-up) - Dark brown phones connected by Southern Bell using separate lines from all plant communication systems. This system allows communication with all outside agencies. The purpose of the ESSX Telephone System is to ensure that priority back-up communications are available for communications to emergency response personnel at the Federal, State, and local governments and other Carolina Power & Light facilities, as well as Ebasco and Westinghouse.

5.2 Motorola Series 90 Desk Top Controllers - are local control desk sets provided to state personnel in the TSC and the EOF to allow message transmittal to dedicated points.

5.2.1 All of base-station received messages can be monitored at the desk set.

5.2.2 The remote control desk set operator can transmit via the base-station switch.

5.2.3 May have a supervisory override switch.

5.2.4 The EOF desk set is located in the Command Room.

6.0 EMERGENCY RADIO SYSTEM OPERATING PROTOCOL

6.1 Using a 2-way Radio

6.1.1 A radio transceiver requires good operating techniques and consideration for other users. Quick and precise transmissions will enable the system to be used efficiently and effectively by all. This is vital during emergencies. Carolina Power & Light is licensed by the Federal Communications Commission (F.C.C) to transmit only those messages that are essential to the efficient conduct of the Company's business.

6.1.2 Definitions

6.1.2.1 Base Station - A transmitter-receiver station intended for operation at a permanent location.

6.1.2.2 Mobile Unit - A radio transceiver unit intended to be used while in motion or during halts at specified points. This includes pack and hand carried units as well as those installed in vehicles.

**EMERGENCY COMMUNICATIONS EQUIPMENT INSTRUCTIONS/OPERATING
PROTOCOL**

6.1.2.3 Radio Operator - Any person authorized by the Company to operate a radio transceiver.

6.1.3 Microphone Procedure -

A transmission is generated by pressing the transmit button on the side of the portable unit or on the side of the microphone.

Every operator should be aware that the microphone button may be accidentally depressed, thereby keying the transmitter. In this condition every spoken word intentional or otherwise will be transmitted over the air. Be suspicious if everything gets too quiet. Check the red transmit light on mobile units frequently. There is no way for the base station to detect which transmitter is keyed in a large mobile net. Accidental keying of the mobile portable unit can severely disrupt the overall net operations and make communications very difficult.

6.1.4 Authorization to use Radio -

No person shall operate a Base Station or Mobile Unit Transmitter unless he/she is so authorized by the Company.

6.1.5 Authorized Messages -

- a) Messages dealing with safety of personnel or the protection of property.
- b) Messages for the performance of work-related matters.

6.1.6 Forbidden messages

The following types of messages are not permitted:

- a) Between Base Stations - Except for: Authorized radio tests or any other permitted messages when telephone facilities are inoperative.
- b) Personal Messages - Except for: Messages concerning a family emergency may, at the discretion of a Base Station Radio Operator, be relayed to an employee.
- c) Foul Language - No exceptions.

6.1.7 Secrecy of Message -

Federal law requires you to keep secret all messages not directed to you which you overhear on any private radio system.

6.1.8 Intentional Interruptions

Such as miscellaneous and unnecessary transmitter keying. These types of "horseplay" can be as dangerous as the physical kind. Emergency or urgent messages could be interrupted or masked out.

**EMERGENCY COMMUNICATIONS EQUIPMENT INSTRUCTIONS/OPERATING
PROTOCOL**6.1.9 Operating Procedures -a) Operational Techniques1. All Radio Operators:

Talk in a normal tone of voice. Do not shout. Best results are obtained by using a normal speaking level with the microphone about one inch from the mouth. Good microphone technique requires a clear articulation and correct talking speed.

<p>NOTE: During an exercise announce, "This is an exercise message," about every three (3) to five (5) minutes.</p>
--

2. Base Station Operators:

Good microphone techniques pays off in better understanding and faster communication.

3. Brevity:

All communications regardless of their nature should be restricted to the minimum practical transmission time. Before transmitting - think. Keep it brief and to the point.

4. Identification and Channel Clearance:

Most of the base stations are shared by several control points. Because of the sharing, it is important for all base and mobile operators to indicate when they are finished with a contact. This is done by identifying the station with the station "call signs" or mobile call signs or either the word "clear" or "off".

For example: The base station operator may say "KGA825 clear" or the mobile may say "KA3664 off" (the mobile unit identification number).

REMEMBER - At the beginning of each transmission identify your unit - clearly and precisely.

Always give your complete call sign at the end of each total message.

**EMERGENCY COMMUNICATIONS EQUIPMENT INSTRUCTIONS/OPERATING
PROTOCOL**

- b) The equipment is turned on by an "ON-OFF" or power switch. Allow about 30 seconds for new equipment and about two minutes for some of the older sets to warm-up before transmitting.
- c) The control marked VOLUME adjusts the loudness of the incoming signal. It has no effect on the outgoing signal.
- d) The control marked SQUELCH affects the sensitivity of the set. It cuts off the loudspeaker except when a signal is received, keeping the static from being heard in the absence of a signal. To set the squelch-control, rotate it to one side until a rushing noise is heard, then reverse it just far enough to cut off the noise. Sometimes, at extreme range, the signal is so weak that the squelch opens and closes rapidly, chopping up the incoming signal. To correct this, open the squelch manually. When through talking to a weak station, turn the squelch back until the noise ceases. Reduction of volume at this point may improve your reception.
- e) On all units having the dual channel feature, the operating frequency is controlled by either a two or four frequency selector control. When you transmit, your switch must be turned to the correct channel.

7.0 MITSUBISHI SATELLITE PHONE

- 7.1 The Mitsubishi Satellite Phone and power supply is normally stored in the Training Facility Library closet. It should only be used if all other normal and back up communication systems have failed. All controls are located on the handset. The top of the lid with the Mitsubishi symbol is the antenna.
- 7.1.1 Plug the power supply into the phone and/or install the battery. The plug is located under the handset. Place the phone in a window facing Old Camden Road on a flat surface.
- 7.1.2 Open the lid approximately halfway (45°) and aim the Mitsubishi symbol toward the satellite in the southern sky. A compass is available in the phone case.
- 7.1.3 Press and hold the PWR key for approximately one second.
- 7.1.4 The Beam number and the Signal Strength Level will be displayed as B**S** (numbers will be displayed in place of the **). NO SVC will be displayed until a signal is established per this procedure.

**EMERGENCY COMMUNICATIONS EQUIPMENT INSTRUCTIONS/OPERATING
PROTOCOL**

- 7.1.5 Slowly rotate the phone and adjust the antenna lid until the Received Signal Strength is at maximum. (00 = least, 80 = best). A minimum of 09 is required.
- 7.1.6 Momentarily press the * key to initiate satellite signal acquisition. This may take approximately 1 - 2 minutes. The NO SVC will disappear and ON will be displayed.
- 7.1.7 When NO SVC indication clears from the display and "ON" is displayed, the unit is ready for making or receiving calls.
1. To send call , always enter the area code and number, Then press the SEND key.
 2. To receive a call, press any key except the PWR key.
 3. To end a call, press END.

BACK-UP METHOD FOR TELE-CONFERENCEING STATE AND COUNTY WARNING POINTS (WPs) USING NORTHERN TELECOM TELEPHONE SYSTEM

Using the specified Meridian phone in the Control Room (ext. 1530 or 1279) or EOF (ext. 5001):

1. Contact the Darlington County Warning Point (Darlington County Sheriff's Department).
 - A. Get dial tone, press SYSTEM SPEED and dial 06. (See Emergency Response Phone Book for other phone numbers.)
 - B. When party answers, identify yourself, and state purpose of your call (drill message or real emergency message).
 - C. Request party to standby while conference call is established.
2. Contact Chesterfield County WP (Chesterfield County Detention Center).
 - A. Press CONFERENCE, then press SYSTEM SPEED and dial 05. (See Emergency Response Phone Book for other phone numbers.)
 - B. When party answers, identify yourself, and state purpose of your call (drill message or real emergency message).
 - C. Request party to standby while conference call is established.
 - D. Press CONFERENCE to connect all parties.
3. Contact Lee County WP (Bishopville 911 Center).
 - A. Press CONFERENCE, then press SYSTEM SPEED and dial 04. (See Emergency Response Phone Book for other phone numbers.)
 - B. Repeat Steps 2B, C, and D.
4. Contact State WP.
 - A. Press CONFERENCE, then press SYSTEM SPEED and dial 09. (See Emergency Response Phone Book for other phone numbers.)
 - B. Repeat Steps 2B, C, and D.
5. When parties are in conference, begin transmitting Warning Message.

NOTE: If you make a mistake while dialing or receive a busy signal, press RLS to disconnect. To return to the call, press the key beside the fast flashing indicator.

ESSX TELEPHONE SERVICE OFF-SITE COMMUNICATIONS SYSTEM

ESSX service is provided by the local telephone carrier (Southern Bell). ESSX essentially provides PBX type service based out of a Southern Bell Central Office (CO). This service satisfies the off-site communications requirements. There are eight lines provided; two each in the Unit 2 Control Room, the TSC Command Room, the EOF Command Room, and the OSC. The numbers are: 383-3680, 383-3681, 383-3682, 383-3683, 383-3684, 383-3685, 383-3686, and 383-3687. The numbers are paired sequentially into pickup groups (i.e. 383-3680 and 383-3681).

1. OPERATION

- A. To place call between ESSX stations, dial the last four digits of the line (i.e., 3680 for 383-3680).
- B. To call an outside line, dial 9, then dial outside number (include "1" or 1 + Area Code for long distance calls).
- C. Calls to Plant Caronet locations may be made via Direct Inward Dial (DID) service (i.e., 9 + Appropriate prefix and extension). Calls to other Caronet locations may be made via Direct Inward System Access (DISA). Dial 9+667-9132, wait for dial tone, dial 2868 (security code), wait for dial tone, dial number (i.e., 770-XXXX).

2. FEATURES

- A. **CALL TRANSFER** - To transfer a call, press hookswitch momentarily, wait for dial tone, dial number to transfer call, hangup or wait until answered to announce call (then hangup).
- B. **THREE WAY CALL (3-WAY CONFERENCE)** - To add third party to call, press hookswitch momentarily, wait for dial tone, dial number of third party, wait for answer and announce conference call, press hookswitch momentarily to reconnect first party.
- C. **CALL PICKUP** - To answer another ESSX call, dial #95.
- D. **CALL FORWARD** - Incoming calls can be forwarded to other ESSX lines or outside lines.
 - 1. To activate, dial #72, wait for dial tone, dial number to forward calls to, wait for confirmation tone (this may take 10 to 15 seconds), hang up.
 - 2. If calls are forwarded outside ESSX service, forwarded phone will ring once as a reminder.
 - 3. To cancel forwarding, dial #73, wait for stutter dial tone, hang up.

CONTROL ROOM PRACTICE SCENARIO USE

1. Obtain Shift Supervisors permission to utilize the Dialogic System for practice.
2. Using a phone in the Control Room dial 1003.
 - Be prepared to **immediately** enter the password when the system begins the greeting. Passwords are provided in pre-designated locations.
3. Immediately upon hearing the greeting (i. e., Hello, you have reached...) enter the password.
 - If the first digit of the password is not entered in time or an incorrect password is entered, the activation number must be called again.
4. Do not use any scenario number other than the one below as these will cause the system to begin actual call out of ERO personnel. When prompted for Scenario number, enter **3334**.
5. Input desired responses at the prompt from the system.
6. Dialogic should initiate the Control Room Verification Beeper with the previously entered "Event Code."
7. Dialogic should fax a System Execution Report to the Control Room fax machine.
8. Dialogic should call extension 1530 and request an identification number.
9. Enter 333-33-3333 as your identification number.
10. Provide responses to the system questions as desired.
 - The practice scenario will remain active for 10 minutes from initiation. If you disqualify (e.g., answer no to fitness for duty or 60 minute response) in your responses, it will not attempt to call you again.
11. If the Verification Beeper did not activate, verify proper operation by calling the individual beeper number.
12. If expected response is not received after verification of proper beeper operation, report the deficiency to Emergency Preparedness for investigation.
13. Inform Emergency Preparedness of system use (on next business day if weekend, holiday or nightshift) so that practice records may be purged from the system.

SIMULATOR DIALOGIC SCENARIO USE

1. Using the designated phone line in the Simulator Control Room, dial 1003.
 - Be prepared to **immediately** enter the password when the system begins the greeting. Passwords are provided in pre-designated locations.
2. Immediately upon hearing the greeting (i. e., Hello, you have reached...) enter the password.
3. If the first digit of the password is not entered in time or an incorrect password is entered, the activation number must be called again.

<p>NOTE: Use of the Manual Initiation of the ERO Beepers attachment bypasses the Dialogic System and will initiate <u>ALL</u> ERO beepers.</p>

4. Do not use any scenario number other than the one below as these will cause the system to begin actual call out of ERO personnel. When prompted for Scenario number, enter **3335**.
5. Input desired responses at the prompt from the system.
6. Dialogic should initiate the Simulator Control Room Verification Beeper with the previously entered "Event Code."
 - For drill purposes Controller/Evaluator staff may direct the use of the beeper system manual initiation.
 - The Simulator Dialogic scenario will remain active for 5 minutes from initiation.
7. If the verification Beeper did not activate, verify proper operation by calling the individual beeper number.
8. If expected response is not received after verification of proper beeper operation, report the deficiency to Emergency Preparedness for investigation.
9. Inform Emergency Preparedness of system use (on next business day if weekend, holiday or nightshift) so that practice records may be purged from the system.

MANUAL INITIATION OF THE ERO BEEPERS

NOTE: This section is not for use with the Control Room Practice or Simulator Dialogic Scenario, except for drills evaluated by Emergency Preparedness.

1. Dial the Manual Beeper Initiation number as listed on password card.
2. At the Beeper System prompt, enter the appropriate code from the Event Codes on ATTACHMENT 8.1.5.4. Do not enter the phone number from which the call is placed.
3. VERIFY THE BEEPERS WERE INITIATED WITH THE APPROPRIATE CODE VIA THE CONTROL ROOM VERIFICATION BEEPER OR SECURITY BEEPER.
4. Notify Non-Responding Emergency Communicator (NREC) of any required call out of beeper and/or non-beeper personnel.

NRC FORM 361 (1-2000)	U.S. NUCLEAR REGULATORY COMMISSION OPERATIONS CENTER
REACTOR PLANT	
EVENT NOTIFICATION WORKSHEET	
EN #	

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

NOTIFICATION TIME	FACILITY OR ORGANIZATION H. B. ROBINSON	UNIT 2	NAME OF CALLER	CALL BACK # 843-857-
-------------------	---	------------------	----------------	--------------------------------

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

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

DESCRIPTION

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

NOTIFICATIONS	YES	NO	WILL BE	ANYTHING UNUSUAL OR NOT UNDERSTOOD? <input type="checkbox"/> YES (EXPLAIN ABOVE) <input type="checkbox"/> NO	
NRC RESIDENT				DID ALL SYSTEMS FUNCTION AS REQUIRED? <input type="checkbox"/> YES <input type="checkbox"/> NO	
STATE(s)					
LOCAL				MODE OF OPERATION UNTIL CORRECTED:	ESTIMATE FOR RESTART DATE:
OTHER GOV AGENCIES					
MEDIA/PRESS RELEASE					
				ADDITIONAL INFO ON BACK <input type="checkbox"/> YES <input type="checkbox"/> NO	

CAROLINA POWER & LIGHT COMPANY
H. B. ROBINSON STEAM ELECTRIC PLANT, UNIT NO. 2

PLANT OPERATING MANUAL

VOLUME 2
PART 5

EMERGENCY PROCEDURE

EPPRO-02
MAINTENANCE AND TESTING

REVISION 13

SUMMARY OF CHANGES

Step#	Description of change
8.2.7.3	Deleted specific call back phone number. Now allows the extension in use.
8.2.18.1	Added reference for new attachment for siren coverage adequacy.
8.2.18.2	Created new step for review and concurrence from county officials.
8.2.18.3	Added guidance to compare the survey information to initial and previous studies.
Attach 8.2.30.1	Changed the task number to WO number to reflect current work practices.
Attach 8.2.30.2	Deleted reference to FEOC Selective Signaling Phone dial codes.
Attach 8.2.30.7	Added radio license verification (CR 25282)

TABLE OF CONTENTS

SECTION	PAGE
8.2	MAINTENANCE AND TESTING..... 2-5
8.2.1	PURPOSE 2-5
8.2.2	RESPONSIBILITIES 2-5
8.2.3	GENERAL 2-7
8.2.4	EMERGENCY FACILITY/EQUIPMENT CHECKS..... 2-8
8.2.5	MONTHLY SELECTIVE SIGNALING SYSTEM COMMUNICATIONS DRILL..... 2-9
8.2.6	MONTHLY LOCAL GOVERNMENT RADIO TEST..... 2-12
8.2.7	MONTHLY NRC ETS/ESSX/SELECTIVE SIGNALING SYSTEM PHONE TESTS..... 2-13
8.2.8	MONTHLY SIREN TESTING AND QUARTERLY GROWL TEST 2-17
8.2.9	QUARTERLY IPZ STATE COMMUNICATIONS DRILL..... 2-20
8.2.10	QUARTERLY ERO PHONE BOOK REVIEW..... 2-21
8.2.11	QUARTERLY BEEPER DRILL..... 2-22
8.2.12	QUARTERLY EOF/TSC/OSC/JIC INVENTORIES..... 2-24
8.2.13	QUARTERLY ERO STATUS REPORT..... 2-25
8.2.14	QUARTERLY OFFSITE SELECTIVE SIGNALING PHONE CHECK 2-25
8.2.15	SEMI-ANNUAL HEALTH PHYSICS AND ANNUAL PASS DRILLS..... 2-26
8.2.16	CONTRIBUTIONS TO EMERGENCY SUPPORT ORGANIZATIONS . 2-27
8.2.17	ANNUAL FULL VOLUME SIREN TEST..... 2-28
8.2.18	ANNUAL SIREN ADEQUACY REVIEW..... 2-30
8.2.19	ANNUAL EAL REVIEW..... 2-31

TABLE OF CONTENTS (Continued)

SECTION		PAGE
8.2.20	ANNUAL PNSC REVIEW OF EMERGENCY PLAN	2-32
8.2.21	ANNUAL MEDICAL EMERGENCY DRILL	2-33
8.2.22	ANNUAL ENVIRONMENTAL TEAM COMMUNICATIONS.....	2-33
8.2.23	ANNUAL LAKE SIGN VERIFICATION.....	2-34
8.2.24	ANNUAL AUDIT REQUIRED BY 10CFR50.54T	2-35
8.2.25	ANNUAL LETTERS OF AGREEMENT UPDATE.....	2-35
8.2.26	ANNUAL PUBLIC ALERT SIREN MAINTENANCE.....	2-36
8.2.27	HOSPITAL AND RESCUE SQUAD TRAINING.....	2-37
8.2.28	NRC EVALUATED EXERCISE.....	2-38
8.2.29	AUGMENTATION DRILL.....	2-39
8.2.30	PUBLIC SAFETY INFORMATION.....	2-40
8.2.31	RECORDS	2-41
8.2.30	ATTACHMENTS.....	2-42
8.2.30.1	Certification and Test Review Form	2-43
8.2.30.2	Selective Signaling System Dialing Codes.....	2-44
8.2.30.3	NRC ETS/ESSX/SSS Monthly Phone Test.....	2-45
8.2.30.4	Siren Out of Service Notifications/Siren Power Supplies	2-46
8.2.30.5	ERO Beeper Test Results.....	2-48
8.2.30.6	EOF/TSC/OSC/JIC Inventory.....	2-49
8.2.30.7	Emergency Facility / Equipment Check Guidance	2-50
8.2.30.8	Quarterly Offsite Selective Signaling Phone Check	2-51
8.2.30.9	Siren Adequacy Review	2-52

8.2 MAINTENANCE AND TESTING

8.2.1 PURPOSE

1. To ensure periodic testing commitments of the Emergency Plan and 10 CFR 50 Appendix E are being met and properly documented.

8.2.2 RESPONSIBILITIES

1. The EP Staff is responsible for performance of the following periodic tests in this procedure as follows:
 - a. Monthly Selective Signaling System Communications Drill - Once per 28 days + 10 days
 - b. Monthly Local Government Radio Test - Once per 28 days + 10 days
 - c. Monthly NRC ETS/ESSX/SSS Phone Tests - Once per 28 days + 10 days
 - d. Monthly Siren Testing - Once per 31 days + 7 days and Quarterly Growl Testing - Once per 92 days + 23 days
 - e. Quarterly IPZ State Communications Drill - Once per 92 days + 23 days
 - f. Quarterly ERO Phone Book Review - Once per 92 days + 23 days
 - g. Quarterly Beeper test - Once per 92 days + 23 days
 - h. Quarterly TSC/EOF Inventories - Once per 92 days + 23 days and after each drill
 - i. Semi-Annual Health Physics - Once per 184 days + 46 days and Annual PASS Drills - Once per 364 days + 91 days

8.2.2.1 (Continued)

- j. Contributions to Emergency Support Organizations -Once per 364 days + 91 days, and each Quarter as required
- k. Annual Siren Full Volume Test - Once per 364 days + 91 days
- l. Annual Siren Adequacy Review - Once per 364 days + 91 days
- m. Annual EAL Review - Once per 364 days + 91 days
- n. Annual PNSC review of Emergency Plan - Once per 364 days + 91 days
- o. Annual Medical Emergency Drill - Once per 364 days + 91 days
- p. Annual Environmental Team Communications - Once per 364 days + 91 days
- q. Annual Lake Sign Verification - Once per 364 days + 91 days
- r. Annual Audit Required by 10CFR50.54T - Once per 364 days + 91 days
- s. Annual Letters of Agreement - Once per 364 days + 91 days
- t. Hospital and Rescue Squad Training - Once per 364 days + 91 days
- u. NRC Evaluated Exercise - Per 10 CFR, Part 50, Appendix E
- v. Augmentation Drill - Once per 24 months + 182 days
- w. Public Safety Information - Once per 364 days + 91 days and Once per 92 days + 23 days

8.2.3 GENERAL

1. Periodic test scheduling will be as follows:
 - a. When a periodic test is completed prior to the scheduled date the next scheduled date will be the early completion date plus the frequency.
 - b. When a periodic test is completed on or after the scheduled date but before the overdue date the next scheduled date will be the last scheduled date plus the frequency.
2. Emergency Preparedness (EP) personnel or Emergency Communicators may be used for communications drills.
3. A drill or exercise that uses the Selective Signaling System (SSS) to contact the State and Counties may be used to fulfill the requirements of the monthly communications test.
 - a. The Superintendent - Shift Operations (SSO) is responsible for providing an emergency communicator for the off hours monthly communications drill.
4. If while performing a test or drill an offsite agency is involved in an actual emergency perform the following:
 - a. If the agency is a State or County Warning Point or EOC, excuse the agency from the remainder of the test or drill, and annotate the situation in the test or drill documentation.
 - b. If the agency is the NRC, perform that part of the test at a later time.
5. A drill or exercise that begins between 6 p.m. and 4 a.m. or a weekend, that includes in the objectives, the conduct of an off hours augmentation of the ERO, may be used to satisfy the requirements of the Augmentation Drill.

8.2.3 (Continued)

6. Attachment 8.2.30.1, Certification Test and Review Form, may be used to document completion of any test or other periodic Emergency Preparedness (EP) requirement unless other documentation is specified in the procedure.
7. When contacting the Control Room in the following procedure steps, it is desirable to contact the SSO, but not required.
8. Integrated site wide drills will be scheduled in accordance with PLP-007, "Robinson Emergency Plan."
9. The Early Warning Notification System is a computer system used and maintained by the EP Staff for monitoring and control of the Emergency Notification Sirens. The software owner will be the Supervisor - Emergency Preparedness. Changes to the software will be controlled per CSP-NGGC-2505 with a software quality level of "C". A users guide is available for instruction on the use of this system. Revision to the manual are controlled through the Document Management System. (CR 11959)
10. The Dialogic computer system is used and maintained by the EP staff for the notification of ERO members of off normal conditions. The software owner will be the Supervisor - Emergency Preparedness. Changes to the software will be controlled per CSP-NGGC-2505 with a software quality level of "D". A users guide is available for instruction on the use of this system. Revision to the manual are controlled through the Document Management System. (CR 11959)

8.2.4 EMERGENCY FACILITY/EQUIPMENT CHECKS (CR 11968)

1. On a daily (normal working week) basis, a walk down of the TSC and EOF facilities should be performed to verify the equipment and facilities are in a condition to support activation of the Emergency Response organization. Attachment 8.2.30.7 provides guidance on the minimum areas of review. The JIC operation area is normally locked after use and inventory. Periodic checks of the JIC are accomplished during routine procedure updates and drill critiques.

8.2.5 MONTHLY SELECTIVE SIGNALING SYSTEM COMMUNICATIONS DRILL

1. The monthly communications will normally be performed by Operations personnel. Every third monthly drill should be performed off hours.
 - During off hour drills it is acceptable to hold the test open until the following work day to complete the phone test portion of this drill. This will allow the County EOCs to be manned.
2. If not performed by Operations personnel, contact the Control Room and inform them that a Selective Signaling System (SSS) Communications Drill will be performed.
3. Provide a scenario to the Emergency Communicator of sufficient detail to allow two Emergency Notification Forms to be completed.
 - a. One form will be the initial notification and one form will be the termination notification.
4. The Emergency Communicator uses the scenario information provided to fill out a notification form (EPNOT-01, CR/EOF Communicator).
5. Review the completed notification form to ensure that "THIS IS A DRILL" is checked, and that all required elements of the form are completed per EPNOT-00 Notification and Emergency Communications.

8.2.5 (Continued)

6. The CRSS or SSO shall approve the notification form and instruct the Emergency Communicator to begin the notification.
7. The Emergency Communicator implements EPNOT-01 to notify Warning Points and EOCs. Instructions for using the RNP Selective Signaling System is contained in Attachment 8.1.5.6 (EPNOT-01).
8. If all parties responded to the communications drill skip to Step 8.2.5.13.
9. If any Warning Points or Emergency Operations Centers fail to respond verify that the nonresponding agencies can be contacted by commercial telephone using the phone number from the ERO Phone Book. During this call, attempt to determine why they did not answer the Selective Signaling System telephone.
10. Contact the nonresponding agency again using a Selective Signaling Telephone by dialing the specific dialing code for that agency. See Attachment 8.2.30.2, Selective Signaling System Dialing Codes.
11. If the agency called picks up, and communications can be established, consider the test successful.
12. If no agency can be contacted using the Selective Signaling System from any site location, via any method (including ESSX, Bell, etc.), **Immediately** inform the SSO **and** consult AP-030, NRC Reporting Requirements. Assist the SSO in making any necessary notification.
13. Notify the Control Room that the Selective Signaling System Communications Drill is concluded. State that the Selective Signaling System is returned to operational status.
14. Arrange for repair of any Selective Signaling System problems by calling the Telecommunications Help Desk. Notify Site Telecommunications of the problem for information purposes.
15. Contact IT and inform them of using ERFIS to generate the Emergency Notification Form. This allows them to reset ERFIS for future notification form use. (CR 16476)

8.2.5 (Continued)

NOTE: Chesterfield, Darlington, and Lee Counties have locations named, "Warning Point" and "Emergency Operating Center". The State does not station personnel in their EOC. Therefore, they have a Warning Point, and a Backup Warning Point. A repeat extension from the EOC is located in the State Warning Point.

16. Acceptance Criteria:

The monthly Selective Signaling System Communications drill is acceptable when:

- a. Contact has been made with the Warning Point **and** EOC for each of the Counties and the State Warning Points.
 - By decision of the State of South Carolina the Backup Warning Point phone is left with the ringer off since the Warning Point is manned 24 hours per day. The Backup Warning Point phone would be tested prior to use.
- b. An initial and termination message has been read to at least one of the locations for each of the agencies.

17. Documentation of the drill will consist of the initial and termination notification forms used with the agencies notified forms, and a completed Attachment 8.2.30.1 (EPPRO-02), Certification and Test Review Form.

18. Transmit the completed forms, to Records Storage in accordance with RDC-NGGC-0001. A copy of the record may be maintained in the EP files for the convenience of auditors.

8.2.6 MONTHLY LOCAL GOVERNMENT RADIO TEST

1. The State of South Carolina tests radio communications with various agencies and nuclear plants every Thursday starting at about 0900. Therefore, at approximately 0900 on the scheduled Thursday, or other prearranged day during the grace period, listen to the Local Government Radio (LGR) set in the EP office.
2. The LGR Instruction Manual lists "10" codes on Page 33. The only "10" codes necessary for the radio test are "10-1" (signal weak), "10-2" (signal good), and "10-97" (radio test).
3. Listen for the call from the State of South Carolina stating, "H.B. ROBINSON THIS IS SOUTH CAROLINA STATE WARNING POINT."
4. Pick up the handset, press the button on the handset, and acknowledge the transmission by saying:

"THIS IS H.B. ROBINSON, I READ YOU 10-2", if the transmission is clear, *OR* "I READ YOU 10-1" if the transmission is weak, and inform the operator that two more radio sets need to be tested.
5. After your transmission is acknowledged, state:

" THIS IS H.B. ROBINSON, SIGNING OFF."
6. After radio traffic on the channel has stopped, test the radio set in Rooms 425 TSC and 434 EOF as follows:
" SOUTH CAROLINA STATE WARNING POINT. THIS IS H.B. ROBINSON FOR A 10-97 ON THE BACKUP RADIO", after the State operator responds answer with "THIS IS H.B. ROBINSON, I READ YOU 10-1 or 10-2" as appropriate.
7. After your transmission is acknowledged, state:

" THIS IS H.B. ROBINSON SIGNING OFF."
8. Complete the third radio set per steps 8.2.5.6 and 8.2.5.7 above and inform the State operator that testing is complete.

8.2.6 (Continued)

9. If the radio communication is weak or not working, notify the Telecommunications Help Desk, Site Telecommunications, and the South Carolina Emergency Preparedness Division. Following repairs retest the radio sets.
10. Acceptance Criteria:

The monthly LGR test is acceptable when satisfactory communication has been completed with the State of South Carolina using the handsets at the TSC, EOF, and EP office.
11. Document the monthly test on Attachment 8.2.30.1, Certification and Test Review Form.
12. Transmit the completed form to Records Storage in accordance with RDC-NGGC-0001. A copy of the record may be maintained in the EP files for the convenience of auditors.

8.2.7 **MONTHLY NRC ETS/ESSX/SELECTIVE SIGNALING SYSTEM PHONE TESTS**

1. Contact the Control Room and inform them that a test of the NRC ETS/ESSX/Selecting Signaling System will be performed. Request that the Control Room not answer the ETS telephone until notified again at the conclusion of this test.
2. From an available ETS telephone in the TSC, EOF or NRC Office, dial one of the 10 digit telephone numbers listed in the ERO telephone book to contact the NRC Operations Center.
3. When the NRC Duty officer answers, inform him of your name, state that you are calling from Robinson Plant, and that this is the monthly test of the Emergency Notification System (ENS). Request that the Duty Officer call back at the extension in use.

8.2.7 (Continued)

4. When the ENS telephone rings, answer the telephone by identifying "ROBINSON NUCLEAR PLANT."
 - a. Record the name of the Duty Officer contacted.
 - No other calls to the NRC Operations Center are required.
5. Use each of the ENS telephones listed on Attachment 8.2.30.3, NRC ETS/ESSX/SSS Monthly Telephone Test, to receive and originate a call.
 - a. This will verify that a dial tone is present and that each ringer, handset, and dial keypad is operational.
 - b. The Control Room ETS phone is tested daily and will not be included in this test.
6. To test the ERDS Link to the NRC take a telephone to Room 426 and open the first louvered door on the back of the ERFIS panel.
 - a. Locate and disconnect the ERDS jack and connect the telephone in its place.
 - b. Ensure the telephone has a dial tone.
 - c. Disconnect the telephone and reconnect the ERDS jack previously disconnected.

8.2.7 (Continued)

7. If any problems are noted during the test:
 - a. Contact the NRC Operations Center by ETS, if available, or bell telephone at one of the numbers listed in the ERO telephone book.
 - b. If no means of contacting the NRC Operations Center is available, contact the SSO and inform him that a 1 hour reportable event to the NRC has occurred.
 - Consult AP-030.
 - Assist the SSO in making the notification.
8. Use each of the ESSX telephones listed on Attachment 8.2.30.3, NRC ETS/ESSX/SSS Monthly Telephone Test, to receive and originate a call.
 - a. This will verify that a dial tone is present and that each ringer, handset, and dial keypad is operational.
9. If any problems are identified with the ESSX telephones notify the Telecommunications Help Desk and onsite personnel to have the telephones repaired.
10. Notify the Control Room of the "Out of Service" condition. When the telephones are repaired and tested notify the Control Room that the telephones are returned to service.
 - a. This condition above is not reportable to the NRC.

8.2.7 (Continued)

11. Use each of the SSS telephones listed on Attachment 8.2.30.3, NRC ETS/ESSX/SSS Monthly Telephone Test, to receive and originate a call.
 - a. This will verify that each ringer, handset, and dial keypad is operational.
 - There is no dial tone on the SSS telephones.
12. If any problems are identified with the SSS telephones notify the Telecommunications Help Desk and onsite personnel to have the telephones repaired.
13. Notify the Control Room of the "Out of Service" condition.
 - a. When the telephones are repaired the tested, notify the Control Room that the telephones are returned to service.
 - This condition is not reportable to the NRC provided a backup communications system (Site PBX, ESSX, etc.) is available.
14. Notify the Control Room that the phone test is complete.
15. Acceptance Criteria:

The ETS, ESSX, and SSS phone tests are satisfactory when:

 - a. It has been verified that the dial tone (except SSS), ringer, handset, and keypad function for each ETS, ESSX, and SSS telephones.
 - b. A dial tone was obtained on the ERDS jack.

8.2.7 (Continued)

16. Documentation of the phone test will consist of Completed Attachment 8.2.30.3, NRC ETS/ESSX/SSS Monthly Telephone Test, and Attachment 8.2.30.1, Certification Test and Review Form.
17. Transmit the completed forms to Records Storage in accordance with RDC-NGGC-0001. A copy of the record may be maintained in the EP files for the convenience of auditors.

8.2.8 MONTHLY SIREN TESTING AND QUARTERLY GROWL TEST

NOTE: Sirens are rotated each week, typically this automatically initiated early Monday morning. Once each quarter each siren is growl tested.

1. Obtain system records documenting the weekly rotation tests.
 - a. On a weekly basis, if the automatic report has not been generated, perform a manual rotation. Guidance is available in the system technical manual.

NOTE: The siren feedback system provides real time information on siren status. This data is routinely reviewed each work day by a member of the EP staff.

2. If failures are noted which have not previously been reported:
 - a. Enter the required information on Attachment 8.2.30.4, Siren Out of Service Notification.
 - Siren power supplies are listed as page 2 of the attachment to aid in determining the impact of power outages.

NOTE: The references to the Help Desk provides the point of contact for service requests. The phone number is provided in the ERO phone book and is also available through E-Mail -TelCom HelpDesk.

8.2.8.2 (Continued)

- b. Notify the Control Room that the siren is out of service.
 - c. Inform the County Emergency Management Director about the siren(s) out of service using the telephone number in the ERO Phone Book.
 - d. Notify the Telecommunications help desk to make repairs.
3. Consult AP-030 NRC Reporting requirements, assist the SSO in making any notifications if desired.
4. When notified by Transmission Maintenance or Telecommunications Help Desk that the siren has returned to service, perform the following:
 - a. Log the notification on Attachment 8.2.30.4, Siren Out of Service Notification.
 - b. Notify the Control Room that the siren is back in service.
 - c. Inform the County Emergency Management Director about the siren(s) back in service.
5. Review siren test records to compare rotation and alarm data against the notifications logged on Attachment 8.2.30.4, Siren Out of Service Notification.
 - a. If the records do not compare with the notification log, contact Telecommunications or Transmission Maintenance to resolve the differences.

8.2.8 (Continued)

6. On a monthly test basis, verify that there has been 1 rotation test each week since the last monthly verification.
 - a. Telecommunications Service request or equivalent has been received for each failed test or that a siren is listed as out of service for each failed test. This may be done via the Siren Out Of Service log or the Help Desk.
7. On a quarterly basis, Growl Test the sirens, note any failures on the notification logs and document any Service requests, Telecommunications or Transmission Department.
 - a. Emergency Preparedness will establish a schedule for growl and full volume siren testing.
 - b. The testing schedule will be entered into the site surveillance tracking system, or similar system, to provide prompts to interested parties such as Site Communications.
8. Include the computer generated summary sheet or equivalent as attachments to the test documentation.

9. Acceptance Criteria

This test is satisfactory when:

- a. Each of the sirens has been rotated weekly or any sirens that failed to rotate have been repaired and successfully retested or listed as out of service. In all cases, sirens out of service must be less than criteria for an NRC report.
- b. On a quarterly basis, each siren Growl tested satisfactorily or any sirens that failed to growl have been repaired and successfully retested or listed as out of service. In all cases sirens out of service must be less than criteria for an NRC report.
- c. Decisions on pass / fail have been documented on the computer generated summary sheet or equivalent. This should include problem resolutions and post maintenance testing results. (CR 99-01366)

8.2.8 (Continued)

10. Complete Attachment 8.2.30.1, Certification Test and Review Form, and attach completed forms or Service Reports.
11. Transmit the completed forms to Records Storage in accordance with RDC-NGGC-0001.
 - a. A copy of the record may be maintained in the EP files for the convenience of auditors.

8.2.9 QUARTERLY IPZ STATE COMMUNICATIONS DRILL

1. Prepare two Emergency Notification Forms using EPNOT-00, Notification and Emergency Communications.
 - a. One form will be the initial notification and one form will be the termination notification.
2. Review the completed notification form to ensure that "THIS IS A DRILL" is checked, and that all required elements of the form are completed per EPNOT-00, Notification and Emergency Communications.
3. Implement EPNOT-00, Notification and Emergency Communications to notify the NC Warning Point via commercial telephone at the number listed in the ERO Phone Book.
4. Verify the authentication code words if requested.
5. If the NC warning point fails to respond, perform the following:
 - a. Contact N. C. Emergency Management at the number listed in the ERO telephone book and attempt to determine why the warning point did not answer the telephone.
 - b. Attempt to contact the N. C. Warning Point again via commercial telephone.

8.2.9 (Continued)

6. If contact can be made with the N. C. Warning Point and communications are established, consider the test successful.
7. If the N. C. Agencies identified above cannot be contacted the test is unsuccessful.
 - a. Notify the Telecommunications Help Desk and Site Telecommunications.
8. Acceptance Criteria:

The IPZ Communications Drill is satisfactory when contact has been made with the N. C. Warning Point for an initial Drill Notification and a termination Notification.
9. The Emergency Notification Forms used and an Attachment 8.2.30.1, Certification Test and Review Form, will provide documentation of the drill.
10. Transmit the completed forms to Records Storage in accordance with RDC-NGGC-0001. A copy of the record may be maintained in the EP files for the convenience of auditors.

8.2.10 QUARTERLY ERO PHONE BOOK REVIEW

NOTE: The EP Staff maintains a copy of the ERO Phone Book in the EP Office as a markup copy. When changes to the ERO are processed in accordance with EPPRO-00, Program and Responsibilities, the markup copy is annotated with the change.

1. Arrange to have each person on the ERO called to confirm both their work number and their home telephone number.

Copies of the phone book (on site directory portion) are routed to each work group onsite to verify their information. Corrections are then routed back to EP for revision.
2. Arrange to have each office telephone number in the "Other Contacts (Offsite)" section of the ERO Phone Book called and confirm home and car telephone numbers. This is typically accomplished by the EP staff calling the persons involved.

8.2.10 (Continued)

3. Review the ERO Phone Book and update any changes.
4. Update and publish the new ERO Phone Book revision.
5. Change out the new ERO Phone Book revision in each copy on distribution contained in the ERO Phone Book. Copies for the NRECS, the Unit 2 Control Room, and the Outside Auxiliary Operators desk (Work Control Center) are typically routed.
6. Acceptance Criteria:

The ERO phone book review is satisfactory when the book has been reviewed, revised and distributed, if required.
7. Document completion of the quarterly review of the ERO Phone Book by completion of Attachment 8.2.30.1, Certification and Test Review.
8. Transmit the completed records to Records Storage in accordance with RDC-NGGC-0001. A copy of the form may be maintained in the EP office for the convenience of auditors.

8.2.11 QUARTERLY BEEPER DRILL

NOTE: The purpose of the beeper drill is to verify the adequacy of the activation hardware and beepers. It is intended to test the coverage and operability of the beeper system only.

1. The Beeper Drill may be conducted by using the Beeper Drill scenario contained in the Dialogic database, with code 0*0*1, or manual beeper activation, defined in EPNOT-00, Notification and Emergency Communication, using code 0*0*4. The drill will be initiated by Emergency Preparedness (EP) personnel.
2. Notify the Control Room when a Beeper Drill is to be conducted.

8.2.11 (Continued)

3. When the Dialogic scenario is used, Beeper holders will be required to call Dialogic and respond to the qualification questions.
 - a. Dialogic will provide printouts that will identify the ERO positions filled and provide names of those people who called the system during the drill but did not qualify.
4. If the Dialogic Beeper Drill scenario was not used, Beeper holders will be required to complete Attachment 8.2.30.5, ERO Beeper Test Results, and ensure it is signed and returned to the EP Staff.
5. The Dialogic printouts, or the completed Attachment 8.2.30.5 will be used to determine the beeper holders that responded.
6. Acceptance Criteria:

Greater than 80% of personnel issued a pager and expected to respond received the appropriate code. Failures to respond have been investigated.

 - a. Total number of eligible pagers will be determined from IT records and will not include pagers which are not expected to respond. (e.g., Control Room, Security)
7. Additional Criteria: (not necessary to be satisfactory)

Determine if personnel in the positions identified on the on-call roster have confirmed that their beeper functioned and they could have reported to the appropriate on-site facility in 60 minutes or less. JIC responders have 120 minutes.

 - a. 60 minutes is based on the standard Dialogic qualification question.
 - b. Appropriate management will be notified of failures to respond which are not due to extraordinary circumstances.

8.2.11 (Continued)

8. Document the completion of the Beeper Test on Attachment 8.2.30.1, Certification and Test Review, and attach other supporting documentation.
9. Transmit the completed records to Records Storage in accordance with RDC-NGGC-0001. A copy of the form may be maintained in the EP files for the convenience of auditors.

8.2.12 QUARTERLY EOF/TSC/OSC/JIC INVENTORIES

1. Perform an inventory using Attachment 8.2.30.6, EOF/TSC/OSC/JIC Inventory, once per quarter and after each facility activation. Facility inventories will be completed as soon as possible not to exceed 3 working days following an activation. Quarterly inventories will be completed within the established grace period. After each activation, ERO personnel should ensure that their facility is in neat order and contains sufficient supplies for future activations, report deficiencies to Emergency Preparedness (EP).
2. Acceptance Criteria:

The EOF/TSC/OSC/JIC inventory is acceptable when the requirements of Attachment 8.2.30.6, EOF/TSC/OSC/JIC Inventory, have been met.
3. Documentation will consist of completed Attachment 8.2.30.6, EOF/TSC/OSC/JIC Inventory and Attachment 8.2.30.1, Certification Test and Review Form.
4. Transmit the completed records to Records Storage in accordance with RDC-NGGC-0001. A copy of the form may be maintained in the EP Files for the convenience of auditors.

8.2.13 QUARTERLY ERO STATUS REPORT (CR 99-01860)

1. This report lists the personnel on the ERO by position and team designation. The report includes:
 - Requalification data for position and respirator.
 - ERO on call schedule.
 - Performance charts.

8.2.14 QUARTERLY OFFSITE SELECTIVE SIGNALING PHONE CHECK (CR 19521)

1. On a quarterly basis all offsite Selective Signaling phones will be checked for proper operation. Arrange with State and County personnel to perform this test.
2. Acceptance Criteria:

All phone circuits listed on attachment 8.2.30.8 have received and generated a phone call.
3. Transmit completed records to Records Storage per RDC-NGGC-0001, NGG Standard Records Management Program.

8.2.15 SEMI-ANNUAL HEALTH PHYSICS AND ANNUAL PASS DRILLS

1. Health Physics drills shall be conducted semi-annually. These drills will involve response to, and analysis of, simulated elevated airborne and liquid samples and direct radiation measurements in the environment.
2. On an annual basis the drill will include analysis of in plant samples with actual or simulated elevated radiation levels and use of the PASS System.
3. Acceptance Criteria:

The acceptance criteria shall be as established in Emergency Preparedness Objectives.
4. The completion of the Health Physics and PASS drills will be documented by memorandum and an Attachment 8.2.30.1, Certification Test and Review Form.
5. Transmit completed records to Records Storage per RDC-NGGC-0001, NGG Standard Records Management Program.

8.2.16 CONTRIBUTIONS TO EMERGENCY SUPPORT ORGANIZATIONS

1. Annual Contributions
 - a. During January of each year a check request will be submitted for each of the listed organizations and in the amounts shown below.
 - Hartsville Rescue Squad \$1,000
 - Lake Robinson Rescue Squad \$1,000
 - Hartsville Fire Department \$2,000
 - b. Deliver the contribution checks to each receiving organization. Complete an Attachment 8.2.30.1, Certification and Test Review, to document the contribution.
2. Quarterly Contributions
 - a. Following the end of each quarter, contact the Lake Robinson Rescue Squad, and Hartsville Rescue Squad to determine the number of call-outs that were responded to by each organization. The amount of reimbursement will be based on the number of call-outs as follows:
 - Rescue Squads \$100 per call-out
 - b. Develop check requests in the appropriate amounts. Deliver the contributions checks to each receiving organization.
 - c. Complete an Attachment 8.2.30.1, Certification and Test Review, to document the reimbursement.

8.2.16 (Continued)

3. Acceptance Criteria:

This task will be considered satisfactory when contributions and reimbursement checks (if required) have been delivered in a reasonable time.

4. Transmit copies of completed records to Records Storage per RDC-NGGC-0001, NGG Standard Records Management Program. An additional copy of the form may be maintained in the EP Files for the convenience of auditors

8.2.17 ANNUAL FULL VOLUME SIREN TEST

1. In January of each year, schedule a Full Volume Siren Test with the State, Counties, Transmission Maintenance, Telecommunications Maintenance, Site Communications and Corporate Communications.
2. As a minimum the Public Information Postcard should contain the time, date, number of siren activations expected, and sufficient time span to allow for maintenance testing and test print outs. (example: 1300 to 1600)
3. A pretest briefing should be held to discuss the sequence of events and lessons learned from previous tests. This should include as a minimum the following items:
 - If local siren de-activation is necessary prior to the three minute time out, ensure sufficient time is allowed for the siren feed back sensors to register a good activation. (30-45 seconds)
 - Once the sirens are activated, allow the full three minutes to pass prior to any manipulation of command screens. This can lead to a premature siren shut down.
 - Allow 15 minutes between siren activation to allow printing of data in a consistent manner.

8.2.17 (Continued)

4. Approximately six weeks before the scheduled Full Volume Test, perform the following:

<p>NOTE: Site Communications will be notified of the Full Volume Test via a site surveillance system to prompt a public information plan to publicize the test.</p>
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- a. Arrange to have a volunteer siren watcher stationed at every siren for the test or monitor testing via feedback system.
 - b. If volunteers are used, send each a map, test form, and a set of watcher instructions.
 - c. If volunteers are used, schedule personnel as telephone operators to take telephone calls from the watchers after the test is concluded.
 - d. Coordinate with South Carolina Emergency Preparedness Division to determine if the EAS system will be activated.
 - e. If the EAS system will be activated during the annual siren test, inform Site Communications to ensure that this information is included in the public information plan.
5. If siren watchers are used schedule a briefing on the day of the test, to ensure coverage and a full understanding of what is required of the watchers.
 6. The full volume test will be conducted from the County Activation points and/or site activation as appropriate.
 7. If siren watchers are used they will call into the plant to inform the telephone operators of the results of the siren activations.
 8. If the siren feedback system is used collect system activation reports for documentation.
 9. If any siren fails to activate or rotate, perform notification steps in the monthly siren test section of this procedure.
 10. Consult AP-030, NRC Reporting Requirements, assist the SSO in making any notifications if desired.

8.2.17 (Continued)

11. Acceptance Criteria:

For the purpose of this procedure the Full Volume siren test will be considered acceptable when sirens have been activated from the site or county activation points, failed sirens identified for repair, NRC notified if required, and any observation and/or feedback system test records collected. Corrective actions required will include schedule and completion dates as appropriate. Decisions on pass/fail have been documented on the computer generated summary sheet or equivalent. This should include problem resolutions and post maintenance testing results. (CR 99-01366)

12. Compile all test records and attach to a completed Attachment 8.2.30.1, Certification and Test Review.

13. Transmit the completed records to Records Storage in accordance with RDC-NGGC-0001. A copy of the record may be maintained in the EP files for the convenience of auditors.

8.2.18 ANNUAL SIREN ADEQUACY REVIEW

1. Perform a survey of areas within the 10 mile EPZ that have the lowest siren coverage, per attachment 8.2.30.9, to determine if a significant change in demographics has occurred.
2. Contact the Emergency Response Directors from Darlington, Chesterfield, and Lee counties to review the survey results and determine additional demographic change information. Have the Directors sign the survey form.
3. Compare the current survey results to the previous test results and initial study. If an area appears to need additional siren coverage, schedule a noise level measurement for the area of interest during the next Annual Full Volume Test.
4. Compile all test records for a yearly interval to determine the simple arithmetic average of total test successes divided by total tests performed.
 - a. The arithmetic average should equal 90% or greater.
 - b. All regularly scheduled silent, growl and the full volume test for each siren is considered a test.

8.2.18 (Continued)

5. Submit letters to the Federal Emergency Management Agency (FEMA) and the State of South Carolina informing them of the Test Results.
 - a. Route the letters to the vault.
6. Acceptance Criteria:

For the purpose of this procedure the Annual Siren Adequacy Review will be considered acceptable when:

 - a. The survey required above is complete.
 - b. The report has been developed and issued. If the arithmetic average is less than 90%, resulting corrective actions will include schedules and completion dates.

8.2.19 ANNUAL EAL REVIEW

1. On an annual basis, arrangements shall be made to review the EALs with the State and County Emergency Preparedness representatives.
2. A memorandum will be generated by the EP staff documenting the review.
3. Acceptance Criteria:

The EAL review will be considered satisfactory when the review is complete and the memorandum above is signed.
4. Complete Attachment 8.2.30.1, Certification Test and Review Form, and attach to the memorandum from above to document the review.
5. Transmit completed records to Records Storage per RDC-NGGC-0001, NGG Standard Records Management Program.

8.2.20 ANNUAL PNSC REVIEW OF EMERGENCY PLAN

1. The Emergency Preparedness staff will review the Robinson Emergency Plan annually.
 - a. The purpose of this review is to determine if any revisions are required due to regulatory revisions, experiences of drills and exercises, or other requirements.
2. Following review, the Robinson Emergency Plan will be presented to the PNSC for review.
3. Revision to the Robinson Emergency Plan will be completed following PNSC review.
4. Acceptance Criteria:

The Emergency Plan review will be considered acceptable following review and acceptance by the PNSC.
5. The PNSC Minutes shall provide documentation of satisfactory completion of this activity.

8.2.21 ANNUAL MEDICAL EMERGENCY DRILL

1. A Medical Emergency Drill, involving a simulated contaminated and injured individual and participation of the local offsite medical services agencies, shall be conducted annually.
2. Acceptance Criteria:

The acceptance criteria shall be as established in Emergency Preparedness Objectives.
3. Records of the drill shall consist of the Scenario, Critique, and an Attachment 8.2.30.1, Certification Test and Review Form.
4. Transmit completed records to Records Storage per RDC-NGGC-0001, NGG Standard Records Management Program. A copy of the record may be maintained in the EP Files for the convenience of auditors.

8.2.22 ANNUAL ENVIRONMENTAL TEAM COMMUNICATIONS

1. On an annual basis, and normally during a regularly scheduled drill, the Environmental Team communications shall be monitored to ensure that communications equipment is adequate and that the ability to communicate effectively is demonstrated.
2. Acceptance Criteria:

The acceptance criteria shall be as established in Emergency Preparedness Objectives.
3. The completion of the Environmental Team Communications shall be documented in the Drill critique.
4. Complete an Attachment 8.2.30.1, Certification and Test Review Form, and attach to a copy of the critique from above.
5. Transmit completed records to Records Storage per RDC-NGGC-0001, NGG Standard Records Management Program. A copy of the record may be maintained in the EP Files for the convenience of auditors.

8.2.23 ANNUAL LAKE SIGN VERIFICATION

1. Perform an inspection of the Evacuation Warning signs posted at each public access to Lake Robinson and Lake Prestwood on a Annual basis.
2. The signs are typically lettered with the following information:

IN THE EVENT OF AN IDENTIFIED EMERGENCY REQUIRING EVACUATION OF THE LAKE AREA YOU WILL BE NOTIFIED BY SIRENS. IF THIS SIGNAL IS OBSERVED PLEASE:
 - a. LEAVE THE LAKE AREA IMMEDIATELY.
 - b. TURN ON THE RADIO OR TELEVISION FOR INFORMATION AND INSTRUCTIONS.
3. Lake signs are located at the following locations:
 - a. Lake Robinson Easterling Landing
 Johnson Landing
 Chesterfield County (Morrisons Bridge)
 Landing
 - b. Lake Prestwood Sonovista Park Landing
4. Acceptance Criteria:

The Evacuation Warning Sign inspection is considered satisfactory when they are found to be appropriately posted and readily readable.
5. Complete Attachment 8.2.30.1, Certification Test and Review Form, to document the inspection and any corrective actions taken.
6. Transmit completed record to Records Storage per RDC-NGGC-0001, NGG Standard Records Management Program.

8.2.24 ANNUAL AUDIT REQUIRED BY 10 CFR 50.54(t)

1. A review of the Emergency Preparedness Program shall be conducted at the frequency specified in the Code of Federal Regulations. This review shall be accomplished by individuals who do not have any responsibility for implementation of the program.
2. This review shall include an evaluation of the adequacy of interfaces with State and County Emergency Preparedness organizations as well as Drills, Exercises, program capabilities, and procedure effectiveness.
3. The results of the review and evaluation, including recommendations for improvement, shall be documented in an appropriate report.
4. The report shall be distributed to Plant and Corporate Management. Those portions of the report that concern the State and County Emergency Preparedness organizations shall be made available to them.
5. Acceptance Criteria:

For the purpose of this procedure the Audit shall be considered acceptable when it is complete. Any resulting corrective actions shall include schedules and completion dates.
6. Copies of the report shall be distributed and filed as required by the reviewing organization.

8.2.25 ANNUAL LETTERS OF AGREEMENT UPDATE

1. On an annual basis, a memorandum will be sent to each agreement organization requesting that they sign and return the document. This will indicate concurrence with the content of the respective Agreement Letter.
2. If necessary new Agreement Letters will be negotiated. Changes to Letters of Agreement will be controlled by AP-021, Attachment 7.1 Licensing Document Change Request.

8.2.25 (Continued)

3. Acceptance Criteria:

The Agreement Letters shall be considered acceptable when the signed memorandum have been returned or new agreements negotiated.

4. Complete an Attachment 8.2.30.1, Certification and Test Review Form, and attach to the signed memorandum.

5. Transmit completed records to Records Storage per RDC-NGGC-0001, NGG Standard Records Management Program.

8.2.26 ANNUAL PUBLIC ALERT SIREN MAINTENANCE

1. On an annual basis preventative maintenance will be performed by Transmission Maintenance or equivalent maintenance organization. The inspection should consist of the following: (CR 99-01257)

a. General area

Clear weeds and brush from around the pole and controls. Clean area and spot paint as necessary.

b. Blower assembly

Check all hardware for tightness, check belts and seal for condition and tension. Lubricate according to manufacturers published specifications. Clean and lubricate the relief valve.

c. Rotator and Chopper Assembly

Check condition of blower pipe, fittings, mounting hardware, and conduit. Check turning gear for proper mesh, excessive wear, and lubricate according to manufacturers published specifications. Check Allen screws in pulleys for tightness.

d. Control Box

Check cleanliness of control box. Check all hardware for tightness.

8.2.26 (Continued)

2. Return to service
 - a. Check for proper operation of blower, rotator, and chopper.
 - b. Conduct a Growl Test to ensure proper operation of siren.
3. Acceptance Criteria:

This maintenance shall be acceptable when the maintenance is complete, discrepancies corrected and the growl test performed. The growl test may be performed locally or by the Emergency Preparedness Staff.
4. Emergency Preparedness shall be provided with documentation of satisfactory performance.
5. Complete an Attachment 8.2.30.1, Certification Test and Review Form, and attach the maintenance documentation. Transmit completed records to Records Storage per RDC-NGGC-0001, NGG Standard Records Management Program.

8.2.27 HOSPITAL AND RESCUE SQUAD TRAINING

1. On an annual basis a package of self directed training material will be prepared and sent to the Darlington County Rescue Squad, Carolina Pines Regional Medical Center, and Chesterfield General Hospital. At the same time actual training will also be offered.
2. Acceptance Criteria:

The training shall be considered acceptable when the packages have been sent and training has been provided or refusal documented.
3. Complete an Attachment 8.2.30.1, Certification Test and Review Form, and attach to the memorandums, training material (if used), and documentation of training refusal if applicable.
4. Transmit completed records to Records Storage per RDC-NGGC-0001, NGG Standard Records Management Program.

8.2.28 NRC EVALUATED EXERCISE

1. A graded exercise shall be conducted as required by 10 CFR, Part 50, Appendix E. The date of the exercise will be coordinated with the NRC, FEMA, State of South Carolina, Harris and Brunswick plants, and Chesterfield, Darlington, and Lee Counties.
2. The exercise scenario will be planned and developed to demonstrate the applicable Objectives from EPPRO-01, Program and Responsibilities.
3. The exercise is an event that tests the integrated capability of major response organizations and will include the attributes identified in PLP-007, Robinson Emergency Plan.
4. Acceptance Criteria:

For the purpose of this procedure the exercise shall be considered acceptable when the exercise and critique are complete.
 - a. Any resulting corrective actions or re-demonstrations shall include schedules and completion dates.
5. Records of the exercise shall consist of the Scenario, and Critique. Documentation such as NRC and other regulatory reports may also be included.
6. Transmit completed records to Records Storage per RDC-NGGC-0001, NGG Standard Records Management Program. A copy of the record may be maintained in the EP Files for the convenience of auditors.

8.2.29 AUGMENTATION DRILL

NOTE: The conduct of Augmentation Drills is one of the Objectives that is normally satisfied during a drill or exercise. However, an augmentation drill may be conducted separate from a regular scheduled drill as follows.

1. Arrange with a member of senior management to conduct an unannounced off hours augmentation drill.
2. Station controllers in the TSC, OSC, and EOF to supervise the completion of augmentation forms.
3. Access the Dialogic computer and select an appropriate scenario to conduct an augmentation drill and activate using an appropriate code or manual beeper activation and NREC callout.
4. Contact the Control Room and request that they perform a site-wide announcement over the plant PA (with VLC switch in the "EMERGENCY" position):

"ATTENTION ALL PERSONNEL. THIS IS A DRILL. EMERGENCY RESPONSE ORGANIZATION PERSONNEL REPORT TO YOUR DESIGNATED FACILITY".
 - a. Repeat The Announcement.
5. ERO Members will respond to the site, comply with fitness for duty requirement, and respond to their designated emergency facility.
6. The controllers will ensure that Attachment 8.1.5.10 of EPOSC-01, Attachment 8.3.5.1, and Attachment 8.3.5.5 of EPEOF-03, in their respective facilities, are completed as each member of the ERO arrives.
7. ERO members may be dismissed once they have signed in on the attachments.

8.2.29 (Continued)

8. Document the completion of the augmentation drill using Attachment 8.2.30.1, Certification and Test Review Form. Include whether or not the requirements of Table 5.3.2-1, PLP-007, Robinson Emergency Plan, were met.
9. Acceptance Criteria:

This drill is satisfactory when the positions identified in PLP-007, Robinson Emergency Plan, Table 5.3.2-1 have been filled within the time specified in the Table.
10. Transmit the completed records to Records Storage per RDC-NGGC-0001. A copy of test records may be maintained in EP files for the convenience of auditors.

8.2.30 PUBLIC SAFETY INFORMATION

1. Safety Information
 - a. During the preparation and review process for the annual distribution of the Safety Information, the EP staff will ensure that an updated list of area schools is provided.
 - This will normally be accomplished by contacting County Emergency Preparedness Directors.
 - b. Acceptance Criteria:

This action will be considered acceptable when the list of area schools has been updated and provided to personnel who are responsible for production of the safety information.

8.2.30 (Continued)

2. Safety Information Quarterly Distribution

- a. During the last month of each calendar quarter Emergency Preparedness personnel will survey the local hotels/motels to ensure they have adequate supplies of literature for transient personnel.
- b. By agreement, inventories should be as follows:
 - Landmark - approximately 150
 - Lakeview Motel - approximately 25
 - Hartsville Motel - approximately 50
 - Missouri Inn - approximately 50
 - Comfort Inn - approximately 75
 - Fairfield Inn - approximately 100
 - These numbers are to provide a reasonable inventory based on occupancy rates, maintaining an exact number is not required.
- c. Acceptance Criteria:

This item will be considered complete and acceptable when the results are documented via memorandum to Emergency Preparedness Management.

8.2.31 RECORDS

N/A

8.2.32 ATTACHMENTS

- 8.2.30.1 Certification and Test Review Form
- 8.2.30.2 Selective Signaling System Dialing Codes
- 8.2.30.3 NRC ETS/ESSX/SSS Monthly Telephone Test
- 8.2.30.4 Siren Out of Service Notifications/Siren Power Supplies
- 8.2.30.5 ERO Beeper Test Results
- 8.2.30.6 EOF/TSC/OSC/JIC Inventory
- 8.2.30.7 Emergency Facility/Equipment Check Guidance
- 8.2.30.8 Quarterly Offsite Selective Signaling Phone Check
- 8.2.30.9 Siren Adequacy Review

CERTIFICATION TEST AND REVIEW FORM

Test Performed: _____ Work Order No. _____

Scheduled/Unscheduled (Circle one)

(If unscheduled, state reason for test _____

	<u>Initials</u>	<u>Name (Print)</u>	<u>Date</u>
Test Performed by	_____	_____	_____
	_____	_____	_____
	_____	_____	_____
	_____	_____	_____

Test Complete: Date _____ Time _____

Test Satisfactory: Yes / No (Circle one)

Comments: (Required if results were unsatisfactory) _____

Approved by: _____ Date _____
Supervisor - Emergency Preparedness

ATTACHMENT 8.2.30.2

Page 1 of 1

SELECTIVE SIGNALING SYSTEM DIALING CODES

Location	Individual Phone Code	Group Dialing Code			
		A1	A2	A3	A4
Control Room	42				X
Work Control Center	43				X
TSC	44				X
EOF State/County Communicator	45				X
Simulator	46				X
EOF Emergency Response Manager	47				
State Backup Warning Point	32	X	X		
Lee County Warning Point	34	X	X		
Darlington County Warning Point	36	X	X		
Chesterfield County Warning Point	38	X	X		
State Warning Point	50	X		X	
State EOC #1	51	X		X	
State EOC #2	51	X		X	
Lee County EOC #1	54	X		X	
Lee County EOC #2	55	X		X	
Darlington County EOC #1	56	X		X	
Darlington County EOC #2	57	X		X	
Chesterfield County EOC #1	58	X		X	
Chesterfield County EOC #2	59	X		X	

ATTACHMENT 8.2.30.3
Page 1 of 1
NRC ETS/ESSX/SSS MONTHLY PHONE TEST

NOTE: A single line instrument is required to test OCL and ERDS.

<u>Location/Circuit</u>	<u>Time/Date</u>	<u>Person Contacted</u>	<u>Results</u>
EOF, Rm 434			
ETS (857-5066) (ENS)	_____	_____	_____
ETS (857-5069) (HPN))	_____	_____	_____
ETS (857-5066) (ENS)	_____	_____	_____
ETS (857-5063) (RSCL)	_____	_____	_____
ESSX (383-3680)	_____	_____	_____
ESSX (383-3681)	_____	_____	_____
SSS (45)	_____	_____	_____
SSS (47)	_____	_____	_____
EOF, Rm 435			
ETS (857-5068) (PMCL)	_____	_____	_____
ADMIN Building, NRC Office			
ETS (857-5066) (ENS)	_____	_____	_____
EOF, Rm 412			
ETS (857-5069) (HPN)	_____	_____	_____
ETS (857-5064) (MCL)	_____	_____	_____
ETS (857-5067) (OCL)**	_____	_____	_____
TSC, Rm 421			
ETS (857-5069) (HPN)	_____	_____	_____
ETS (857-5064) (MCL)	_____	_____	_____
TSC, Rm 422			
ETS (857-5063) (RSCL)	_____	_____	_____
C, Rm 424			
ETS (857-5068) (PMCL)	_____	_____	_____
TSC, Rm 425			
ETS (857-5066) (ENS)	_____	_____	_____
ETS (857-5069) (HPN)	_____	_____	_____
ETS (857-5066) (ENS)	_____	_____	_____
ESSX (383-3682)	_____	_____	_____
ESSX (383-3683)	_____	_____	_____
SSS (44)	_____	_____	_____
ERFIS COMPUTER Rm 426			
ERDS (857-5065)*	_____	_____	_____
CONTROL ROOM			
ESSX (383-3684)	_____	_____	_____
ESSX (383-3685)	_____	_____	_____
SSS (42)	_____	_____	_____
SIMULATOR			
SSS (46)	_____	_____	_____
OSC			
ESSX (383-3686)	_____	_____	_____
ESSX (383-3687)	_____	_____	_____
WORK CONTROL CENTER			
SSS (43)	_____	_____	_____

* Plug into jack in the back of computer cabinet and listen for dial tone.

**Plug another ETS phone into the OCL jack (bottom jack near door by other ETS phones, labeled "OCL") and test similar to other phone circuits.

SIREN OUT OF SERVICE NOTIFICATIONS

Date	Notification	Name	Time	Siren(s)	County	IN/OUT Service	Initial
	Noted By Telecom County Control Rm	_____ _____ _____ _____	_____ _____ _____ _____			IN/OUT (Circle)	
	Noted By Telecom County Control Rm	_____ _____ _____ _____	_____ _____ _____ _____			IN/OUT (Circle)	
	Noted By Telecom County Control Rm	_____ _____ _____ _____	_____ _____ _____ _____			IN/OUT (Circle)	
	Noted By Telecom County Control Rm	_____ _____ _____ _____	_____ _____ _____ _____			IN/OUT (Circle)	
	Noted By Telecom County Control Rm	_____ _____ _____ _____	_____ _____ _____ _____			IN/OUT (Circle)	
	Noted By Telecom County Control Rm	_____ _____ _____ _____	_____ _____ _____ _____			IN/OUT (Circle)	

ATTACHMENT 8.2.30.4
Page 2 of 2
SIREN POWER SUPPLIES

Darlington County

<u>Site</u>	<u>Feeder</u>	<u>Substation</u>	<u>Site</u>	<u>Feeder</u>	<u>Substation</u>
7	Pee Dee Coop	Pee Dee Coop	30	Kellytown	Segars
8	Pee Dee Coop	Pee Dee Coop	31	West Carolina	Segars
12	Pee Dee Coop	Pee Dee Coop	32	Tenth Street	Hartsville
13	Pee Dee Coop	Pee Dee Coop	33	Prestwood	Hartsville
14	Club Colony	Segars	34	Byrdtown	Hartsville
18	Pee Dee Coop	Pee Dee Coop	36	West Carolina	Segars
19	Club Colony	Segars	37	West Carolina	Segars
20	Pee Dee Coop	Pee Dee Coop	38	Lydia	Hartsville (115KV)
21	Pee Dee Coop	Pee Dee Coop	39	Pee Dee Coop	Pee Dee Coop
22	Pee Dee Coop	Pee Dee Coop	41	West Carolina	Segars
23	Kellytown	Segars	42	West Carolina	Segars
24	Pee Dee Coop	Pee Dee Coop	43	West Carolina	Segars
25	Pee Dee Coop	Pee Dee Coop	44	Lydia	Hartsville (115KV)
26	Club Colony	Segars			
27	Club Colony	Segars			

Chesterfield County

<u>Site</u>	<u>Feeder</u>	<u>Substation</u>	<u>Site</u>	<u>Feeder</u>	<u>Substation</u>
1	McBee (12KV)	Bethune	10	Pineridge	Segars
2	Pee Dee Coop	Pee Dee Coop	11	Pineridge	Segars
3	Pee Dee Coop	Pee Dee Coop	15	Pee Dee Coop	Pee Dee Coop
4	Pee Dee Coop	Pee Dee Coop	16	Pee Dee Coop	Pee Dee Coop
5	McBee (12KV)	Bethune	17	Pineridge	Segars
6	Pee Dee Coop	Pee Dee Coop	45	McBee (12KV)	Bethune
9	McBee (12KV)	Bethune			

Lee County

<u>Site</u>	<u>Feeder</u>	<u>Substation</u>
28	Kellytown	Segars
29	Kellytown	Segars
35	Church Street	Bishopville
40	Church Street	Bishopville

EMERGENCY FACILITY / EQUIPMENT CHECK GUIDANCE

TSC tour

- Check general cleanliness and order.
- Boards/panels clean.
- Computer terminals operational.
- Clocks operational
- Verify radio station license current (Local Government Radio) (CR 25282)

EOF tour

- Check general cleanliness and order.
- Boards/panels clean.
- Computer terminals operational.
- Clocks operational.
- Siren computer alarms clear. Log on computer and verify correct time between terminal and RTUs.
- Verify radio station licenses current (Local Government Radio, Enmon) (CR 25282)

Equipment Room check (AB-1 key)

- Check general cleanliness and order.
- R-38 operating, (The HPs own the equipment. This is for information only.)
- Check ventilation dampers closed. (Normal position)
- Building exhaust fan running. (courtesy check)
- ENMON Boxes (2) and HP cabinet (1) seals intact.
- EOF/TSC Diesel alarm panel clear. (OPS own the equipment. This is for information only.)

PBX room tour

- Check general cleanliness and order.
- Check operation of Dialogic Computer. (Check 1777 phone line pick up and transfer. Also check 1003 pick up)
- Check for room integrity.

General building walkdown

- Check for work that would affect the integrity of the building.

QUARTERLY OFFSITE SELECTIVE SIGNALING PHONE CHECK

<u>Location/Circuit</u>	<u>Time/Date</u>	<u>Person Contacted</u>	<u>Results</u>
STATE SSS			
State Back Up Warning Point (32)	_____	_____	_____
State Warning Point (50)	_____	_____	_____
State EOC 1 (51)	_____	_____	_____
State EOC 2 (51)	_____	_____	_____
LEE COUNTY SSS			
Warning Point (34)	_____	_____	_____
Directors Office (54)	_____	_____	_____
Lee County EOC (55)	_____	_____	_____
CHESTERFIELD COUNTY SSS			
Warning Point (38)	_____	_____	_____
Office area (58)	_____	_____	_____
Chesterfield County EOC (59)	_____	_____	_____
DARLINGTON COUNTY SSS			
Warning Point (36)	_____	_____	_____
Darlington County EOC (56)	_____	_____	_____
Darlington County EOC Office (57)	_____	_____	_____

ATTACHMENT 8.2.30.9
Page 1 of 5
SIREN ADEQUACY REVIEW
Northeast Quadrant

Each zone should be inspected for population density increases, industrial additions, permanent large noise sources which could increase ambient sound levels. Background noise sources should be compared to previous reports for comparison.

REGION	INT	BACKGROUND NOISE SOURCE
R3		
R4		
R5		
R6		
R7		
R8		
R9		
R10		
R11		
R12		
R13		
R14		
R15		
R16		
R17		
R18		
R19		
R20		
R21		
R22		

ATTACHMENT 8.2.30.9
Page 2 of 5
SIREN ADEQUACY REVIEW
Southeast Quadrant

Each zone should be inspected for population density increases, industrial additions, permanent large noise sources which could increase ambient sound levels. Background noise sources should be compared to previous reports for comparison.

REGION	INT	BACKGROUND NOISE SOURCE
R1		
R2		
R23		
R24		
R25		
R26		
R27		
R28		
R29		
R30		
R31		
R44		
R45		
R46		
R47		
R48		
R49		
R50		
R51		
R52		
R63		

ATTACHMENT 8.2.30.9
Page 3 of 5
SIREN ADEQUACY REVIEW
Southwest Quadrant

Each zone should be inspected for population density increases, industrial additions, permanent large noise sources which could increase ambient sound levels. Background noise sources should be compared to previous reports for comparison.

REGION	INT	BACKGROUND NOISE SOURCE
R32		
R33		
R34		
R35		
R36		
R37		
R38		
R39		
R40		
R41		
R42		
R43		
R56		
R57		
R58		

ATTACHMENT 8.2.30.9
Page 4 of 5
SIREN ADEQUACY REVIEW
Northwest Quadrant

Each zone should be inspected for population density increases, industrial additions, permanent large noise sources which could increase ambient sound levels. Background noise sources should be compared to previous reports for comparison.

REGION	INT	BACKGROUND NOISE SOURCE
R53		
R54		
R55		
R59		
R60		
R61		
R62		
R64		
R65		

ATTACHMENT 8.2.30.9
Page 5 of 5
SIREN ADEQUACY REVIEW

I have reviewed the survey data and discussed population changes with the H.B. Robinson Emergency Preparedness staff. I have also reviewed applicable county records or discussed with the appropriated individuals concerning population changes and industrial changes within my county.

I have / do not have siren coverage areas that warrant further study.

_____/_____
County EP Director Chesterfield County

I have / do not have siren coverage areas that warrant further study.

_____/_____
County EP Director Darlington County

I have / do not have siren coverage areas that warrant further study.

_____/_____
County EP Director Lee County

CAROLINA POWER & LIGHT COMPANY
H. B. ROBINSON STEAM ELECTRIC PLANT, UNIT NO. 2

PLANT OPERATING MANUAL

VOLUME 2
PART 5

EMERGENCY PROCEDURE

EPEOF-07

***ASSISTANT TO THE EMERGENCY RESPONSE
MANAGER***

REVISION 3

SUMMARY OF CHANGES

Step	Revision Comments
Quick start guide	Added 4b, to verify radio microphones are turned on. (CR 25282)
8.7.3.7	Deleted step to activate communications at the FEOC, the SCEPD will no longer be activating / maintaining the facility.
8.7.3.8	Added step to secure the audio system in the TSC when no longer needed.

TABLE OF CONTENTS

SECTION	PAGE
QUICK START GUIDE	7-4
8.7.1 PURPOSE	7-5
8.7.2 RESPONSIBILITIES	7-5
8.7.3 INSTRUCTIONS	7-5
8.7.4 RECORDS	7-7
8.7.5 ATTACHMENTS	7-7

ASSISTANT EMERGENCY RESPONSE MANAGER (AERM) QUICK START GUIDE

NOTE: Blanks are provided for place keeping ✓'s only, logs are the official record. This is a summary level guide and does not replace the procedure steps.

1. Sign-in on the facility sign-in board. Log on the Electronic Display System (EDS). _____
2. If Dialogic was used for callout, upon arrival at the Facility, notify Dialogic at X 1777. _____
3. Obtain plant status briefing from the Emergency Response Manager (ERM). _____
4. Switch facility video system to display output of TSC camera.
 - a. Ensure power is on for audio system rack in TSC. _____
 - b. Ensure radio mic switches in TSC are in the on position (CR 25282). _____
5. Update the date/time/event chart by posting the date and time of the current emergency classification. _____
6. Ensure the Emergency Classification Display is turned on and current. _____
7. Notify Unit 1 Control Room (CR) and the Darlington County Plant of the emergency situation. _____
8. Assist the ERM in preparation to activate the EOF. _____
9. Notify the ERM as the readiness to activate. _____
10. Refer to procedure steps. _____

8.7 ASSISTANT EMERGENCY RESPONSE MANAGER (AERM)

8.7.1 PURPOSE

1. This procedure describes the functional responsibilities and procedure steps for the Assistant Emergency Response Manager (AERM).

8.7.2 RESPONSIBILITIES

1. Provide assistance and support to the Emergency Response Manager (ERM) in the operation of the Emergency Operations Facility (EOF).
2. Notify, support and interface with the Unit 1 Control Room (CR) and the Darlington County Plant in the event of an emergency.

8.7.3 INSTRUCTIONS

1. Assist the ERM with operation of the EOF as necessary.
2. Maintain the emergency classification level display up-to-date.
3. Monitor the Date/Time/Event display board to ensure it is current.
 - a. Provide information to Facility Administrative personnel if assistance is required.
4. Log in to siren computer and monitor siren status.
 - a. Provide feedback to offsite officials after activation of system.
 - b. Activation of county sirens will be performed only upon request of the County Emergency Preparedness Director through the on duty Emergency Response Manager.

8.7.3 (Continued)

5. Notify, support and interface with the Unit 1 CR and the Darlington County Plant by doing the following:
 - a. Notify each location regarding plant status:
 - Actions to be taken
 - Radiological release(s) in progress
 - Wind direction
 - Evacuations initiated
 - Refer to the ERO Telephone Directory for telephone numbers.
 - b. Provide updates as the emergency progresses.
 - c. In the event of an evacuation, coordinate with the ERM to determine if Unit 1 and the Darlington County Plant should evacuate or continue to operate in support of the emergency.
 - Notify each location regarding the necessary actions.
 - After receiving notification from Unit 1 that the Unit is off line, the AERM shall be responsible for placing the Unit 1 turbine on turning gear at 0 RPM
 - Coast down requires approximately 20 minutes.
 - d. Coordinate Health Physics and other coverage as necessary to support required activities.
 - e. Coordinate Security as necessary.
 - f. If deemed necessary, the AERM shall request a Unit 1 operator assemble in the EOF to instruct the Unit 2 Responders for Unit 1 shutdown activities via telephone or radio.
6. Contact EOC Representatives and:
 - a. Obtain answers for any questions.
 - Get responses approved by the ERM for any information not pre-approved for release.
 - b. Provide plant status briefings.

8.7.3 (Continued)

7. Coordinate shift change with the Administrative & Logistics Manager (ALM).
8. Ensure the audio system is secured in the TSC when no longer needed. (CR 25282)

8.7.4 **RECORDS**

N/A

8.7.5 **ATTACHMENTS**

N/A