

CAROLINA POWER & LIGHT COMPANY  
BRUNSWICK STEAM ELECTRIC PLANT, UNIT NOS. 1 AND 2

REVISED PLANT EMERGENCY PROCEDURES

<u>SECTION NUMBER</u>	<u>TITLE</u>	<u>REVISION NUMBER</u>
4.3 *	Performance of Training, Exercises and drills	4

\* Complete instruction or modification

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CAROLINA POWER & LIGHT COMPANY  
BRUNSWICK STEAM ELECTRIC PLANT

UNIT 0

PERFORMANCE OF TRAINING, EXERCISES, AND DRILLS

PLANT EMERGENCY PROCEDURE: PEP-04.3

VOLUME XIII

Rev 004

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QA

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LIST OF EFFECTIVE PAGES

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## 1.0 Responsible Individuals and Objectives

- 1.1 The Emergency Planning Coordinator is responsible to the plant General Manager for assuring emergency response training to those who may be called upon to assist in an emergency.
- 1.2 The Director - Training shall assist the Emergency Planning Coordinator with training, as required.
- 1.3 Emergency organization leaders/directors and managers are responsible for the training/retraining of personnel under their direction during an emergency, and for ensuring that required skills are maintained.
- 1.4 Plant personnel are responsible for becoming generally familiar with the PEPs, and proficient in carrying out PEPs that are applicable to them.
- 1.5 The Emergency Planning Coordinator is responsible for the planning, scheduling and administration of drills and assists in exercises as described in this procedure.
- 1.6 The plant Fire Protection Specialist is responsible for fire brigade training as defined in the plant Operating Manual, Volume XIX, Fire Protection.

## 2.0 Scope and Applicability

This procedure establishes the Brunswick plant's requirements for training/retraining, drills, and exercises for all general employees, BSEP emergency response personnel and local off-site support agencies.

The Emergency Planning Coordinator is responsible for ensuring that the training and retraining, drills and exercises are carried out at the frequency described in this procedure.

## 3.0 Actions and Limitations

### 3.1 Training Requirements for Emergency Preparedness

- 3.1.1 All personnel on site, other than escorted personnel, shall receive initial orientation and annual retraining from the Director - Training or his designee in the following areas.
  - 3.1.1.1 Basic principals of radiological safety, including: effects of radiation, theory and use of radiation detection devices, use of protective clothing, equipment and devices.
  - 3.1.1.2 Evacuation and accountability procedures.

- 3.1.2 Plant personnel who are designated as Emergency Security Team members shall receive initial and subsequent annual retraining from the Security Specialist or his designee, including, but not limited to, the following:
  - 3.1.2.1 Personnel accountability procedures
  - 3.1.2.2 Site access
  - 3.1.2.3 Deployment of Security personnel
  - 3.1.2.4 Evacuation and perimeter control
  - 3.1.2.5 Applicable communication links
- 3.1.3 Plant operators shall receive initial and subsequent annual retraining from the Director - Training or his designee, including, but not limited to, the following:
  - 3.1.3.1 Emergency classes and emergency action levels
  - 3.1.3.2 Initial dose projections
  - 3.1.3.3 Assistance to be provided by the Technical Support Center
  - 3.1.3.4 Record keeping
  - 3.1.3.5 Initial notifications
- 3.1.4 Plant personnel who are designated as fire brigade members shall receive initial and subsequent annual retraining from the Fire Protection Specialist or his designee, identified in the plant Operating Manual, Volume XIX.
- 3.1.5 Off-site support organizations (hospital personnel, ambulance and rescue squad, police, and fire departments) shall receive initial and subsequent annual retraining from the Emergency Planning Coordinator or his qualified designee, including, but not limited to, the following:
  - 3.1.5.1 Notification procedures
  - 3.1.5.2 Basic radiation protection
  - 3.1.5.3 Expected roles of each support group
  - 3.1.5.4 Support organizations who enter the site will also be trained on access procedures and identification of the on-site contact personnel.

### 3.1.6 Technical Support Group

This group is composed of those individuals who might serve as Site Emergency Coordinator, TSC Director or TSC team leaders. Alternates to these positions are also included in this training program.

The basic topics covered in the training for this group are:

- Action Levels and Classifications
- Emergency Response Organization
- On-Site Support Facilities
- Protective Action Guides and Exposure Control
- CP&L - NRC Interface
- Off-Site Agencies

In addition to the above topics, each individual in the emergency response organization is responsible to maintain a working knowledge of the procedures which apply to their positions. The training program for this group is accomplished by means of a self-study program and, when applicable, a walk-through in the form of a tabletop exercise. The goal of the program is to perform this walk-through at least twice a year. Any erroneous actions by the participants will be corrected on the spot and, if necessary, individuals or group instructions can be given as needed.

### 3.1.7 Training for the individuals who will staff the Emergency Operations Facility and Corporate Emergency Operations Center will be given annually by the Director of Emergency Preparedness or his designee. This training will include but not be limited to:

- 3.1.7.1 The Brunswick Emergency Response Plan.
- 3.1.7.2 Communications systems and procedures to be utilized.
- 3.1.7.3 The Corporate Emergency Plan.
- 3.1.7.4 Procedures to be used to carry out the necessary emergency response functions.

### 3.1.8 The Emergency Planning Coordinator and Emergency Preparedness Specialist shall be considered qualified instructors based on continued involvement and awareness of emergency planning regulations and Radiological Emergency Plan and Procedure development.

## 3.2 Drills

3.2.1 Emergency drills are supervised instruction periods aimed at testing, developing, and maintaining skills in a particular operation. Brunswick Plant emergency personnel will participate in periodic drills, in addition to an annual exercise, to test their skills as follows:

- 3.2.1.1 Communication Drills: A system check to test the readiness of the communications network between the plant, the county and state governments, and the NRC will be conducted monthly. Communications with federal emergency response organizations and states within the 50-mile EPZ will be tested quarterly. Communications with federal emergency response organizations and between the plant, state, and county Emergency Operations Centers and field assessment teams will be tested annually.
- 3.2.1.2 Fire Drills: Fire drills will be held in accordance with the Fire Protection Procedures Plant Operating Manual, Volume XIX.
- 3.2.1.3 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 the annual exercise.
- 3.2.1.4 Radiological Monitoring Drills: Radiological drills will include plant and environmental measurement of external whole body doses and air concentrations of iodines and/or particulates. These drills will be held annually.
- 3.2.1.5 In-Plant Radiation Protection Drills: Radiation protection drills, including response to and analysis of simulated elevated airborne and liquid samples and direct radiation measurements, will be conducted semiannually.

NOTE: The exact measurements to be taken during the radiological monitoring or radiation protection drills will depend on the content of the drill scenarios.

3.2.2 The Emergency Planning Coordinator is responsible for planning and conducting drills (except fire drills). He shall provide for the following:

- 3.2.2.1 The basic objectives of the drill.



- 3.2.2.2 The date, time, place, and participants.
- 3.2.2.3 Events to be simulated.
- 3.2.2.4 Time schedule of initiating events, real and simulated.
- 3.2.2.5 A narrative summary describing the conduct of the drill.
- 3.2.2.6 Qualified observer(s) to evaluate the drill.
- 3.2.2.7 Review of the drill evaluation and distribution of copies to affected personnel.
- 3.2.2.8 Initiate implementation of comments/changes to PEPs per PEP-4.1 "Record Keeping and Documentation."
- 3.2.3 The Plant Fire Protection Specialist is responsible for planning and conducting fire drills as described in the FP-1, "Plant Fire Brigade," Volume XIX, Plant Operating Manual.

### 3.3 Exercises

- 3.3.1 An exercise is an event that tests the integrated capability of major response organizations. An emergency exercise will be conducted annually and will be based on a scenario which ultimately is declared at least as a Site Emergency. 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 five year period. Over a six year period, provision should be made for one exercise to take place between 6:00 pm and midnight and another between midnight and 6:00 a.m. Every fifth year the exercise will be expanded to involve the federal response organizations in addition to the state and local organizations. Advance knowledge of the scenarios and the times of the exercises will be kept to a minimum to ensure a realistic participation by those involved.
- 3.3.2 The Emergency Planning Coordinator assists in the planning and execution of exercises. He shall assist in obtaining the following:
  - 3.3.2.1 The basic objectives of the exercise.
  - 3.3.2.2 The date, time, place and participants.
  - 3.3.2.3 Events to be simulated.



- 3.3.2.4 Time schedule of initiating events, real and simulated.
- 3.3.2.5 A narrative summary (scenario) describing the conduct of the exercise.
- 3.3.2.6 Approval from responsible corporate authorities not significantly involved in the exercise.
- 3.3.2.7 Coordination with outside agencies (e.g., local, State, federal organizations) to ensure participation by appropriate support groups.
- 3.3.2.8 Providing for qualified observer(s) to evaluate the exercise.
- 3.3.2.9 Review of exercise evaluation and distribution of copies to affected personnel.
- 3.3.2.10 Initiate implementation of comments/changes to PEPs per PEP-4.1 "Record Keeping and Documentation."
- 3.3.3 Each annual exercise scenario will include a list of performance objectives and a description of the expected responses. Specific tasks to be evaluated are:
  - 3.3.3.1 Condition recognition and reporting.
  - 3.3.3.2 Assessment.
  - 3.3.3.3 Off-site notification, including CP&L off-site personnel and protective action determination.
  - 3.3.3.4 Off-site response.
  - 3.3.3.5 Site response coordination, including communications, logistics, center manning, information gathering and analysis, and coordination with off-site agencies.
  - 3.3.3.6 Corrective actions.
  - 3.3.3.7 Protective actions.
  - 3.3.3.8 Record keeping.
  - 3.3.3.9 Monitoring.

CAROLINA POWER & LIGHT COMPANY  
BRUNSWICK STEAM ELECTRIC PLANT, UNIT NOS. 1 AND 2  
REVISION TO THE ENERGY RESPONSE PLAN