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CAROLINA POWER & LIGHT COMPANY
BRUNSWICK NUCLEAR PLANT

I
Information
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PLANT OPERATING MANUAL

VOLUME XIII

PLANT EMERGENCY PROCEDURE

UNIT
0

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NUCLEAR DOCUMENT CONTROL



OPEP-02.1.1

**EMERGENCY CONTROL - NOTIFICATION OF
UNUSUAL EVENT, ALERT, SITE AREA EMERGENCY,
AND GENERAL EMERGENCY**

REVISION 5

**SELECT
DISTRIBUTION**

TABLE OF CONTENTS

SECTION	PAGE
1.0 PURPOSE	3
2.0 REFERENCES	3
3.0 DEFINITIONS	3
4.0 RESPONSIBILITIES	4
5.0 GENERAL GUIDANCE	5
6.0 INSTRUCTIONS	6
7.0 RECORDS	11
ATTACHMENTS	
1 Site Emergency Coordinator Actions Flow Chart	12
2 Site Emergency Coordinator Actions Checklist	13
3 SEC Turnover/Briefing Worksheet	14

1.0 PURPOSE

The purpose of this procedure is to define the responsibilities and actions of the Site Emergency Coordinator (SEC) during a declared emergency, including the initial and continued coordination of resources to respond to an emergency on site. This procedure has primary applicability during the initial stages of a classified emergency when the SEC position resides in the Control Room, but the requirements and direction continue to apply throughout an emergency. SEC responsibilities following activation of the Technical Support Center are addressed in OPEP-02.6.26, Activation and Operation of the Technical Support Center (TSC).

2.0 REFERENCES

- 2.1 OPEP-02.1, Initial Emergency Actions
- 2.2 OPEP-02.6.21, Emergency Communicator
- 2.3 OPEP-03.4.7, Automation of Off-Site Dose Projection Procedure
- 2.4 OPEP-03.8.2, Personnel Accountability and Evacuation
- 2.5 OPEP-Appendix A, Emergency Response Resources
- 2.6 EPA-400-R-92-001, Manual of Protective Action Guides and Protective Actions for Nuclear, Incidents, U. S. EPA, May 1992
- 2.7 OPEP-04.7, Brunswick Emergency Notification (Automated Telephone) System
- 2.8 OOI-60, ERFIS Data Display System
- 2.9 OPEP-02.6.28, Off-Site Protective Action Recommendations
- 2.10 OPEP-02.6.26, Activation and Operation of the Technical Support Center (TSC)

3.0 DEFINITIONS

None

4.0 RESPONSIBILITIES

NOTE: *Asterisk - identified items are performed by the EOF when activated.
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4.1 The Site Emergency Coordinator (SEC) is responsible for:

- 4.1.1 Declaration and termination of emergency classifications.
- 4.1.2 Notifying appropriate personnel of the activation of the Site Emergency Coordinator (SEC) position and informing them of plant status.
- 4.1.3 Maintaining a log of all activities.
- 4.1.4 Assignment of a Control Room Emergency Communicator.
- 4.1.5 Notification of Security (SAS) to activate the Brunswick Emergency Notification (BEN) System.
- * 4.1.6 Ensuring immediate and follow-up off-site notifications are made.
- 4.1.7 Ensuring that the Emergency Response Data System (ERDS) is initiated as soon as possible following the declaration of an ALERT or higher. This should be done immediately following the NRC notification and shall not exceed one hour.
- 4.1.8 Direction and coordination of the combined activities of plant personnel in the Control Room, Technical Support Center (TSC), Operational Support Center (OSC) or elsewhere on site when activated.
- * 4.1.9 Approval of news releases.
- 4.1.10 Notification of Chemistry to energize Post Accident Sample System Heat Trace, when conditions warrant.
- 4.1.11 Coordination of plant activities with the Emergency Operations Facility (EOF) when activated.

4.0 RESPONSIBILITIES

- 4.1.12 Activation of the required emergency teams and facilities for the TSC, OSC and EOF.
 - 4.1.13 Augmentation of on-shift staff.
 - * 4.1.14 Requests for emergency assistance from offsite agencies.
 - 4.1.15 Conduct of periodic briefings to emergency response organization personnel.
 - 4.1.16 Continuous assessment of emergency conditions for possible reclassification or termination.
 - 4.1.17 Perform accident mitigation activities.
 - * 4.1.18 Off-site activities of plant emergency response personnel.
 - * 4.1.19 Protective action recommendations to off-site authorities.
- 4.2 The Control Room Emergency Communicator (CREC) is responsible to the Site Emergency Coordinator (SEC) for communications in accordance with OPEP-02.6.21, Emergency Communicator.

5.0 GENERAL GUIDANCE

- 5.1 This procedure shall be implemented when an Emergency Action Level (EAL) as described in OPEP-02.1, Initial Emergency Actions, has been met or exceeded.
- 5.2 This procedure shall remain in effect until the emergency has been terminated.
- 5.3 While this procedure is in effect the position of Site Emergency Coordinator will be activated.
- 5.4 The Site Emergency Coordinator shall not delegate the following until the Emergency Response Manager is activated:
 - 5.4.1 the responsibility for protective action recommendations to off-site authorities;
 - 5.4.2 approving Emergency Notification forms (OPEP-02.6.21 Attachment 1); or,

5.0 GENERAL GUIDANCE

- 5.4.3 approving press/news releases.
- 5.5 When the EOF is activated, the Emergency Response Manager assumes the responsibility for:
 - 5.5.1 Protective action recommendations to off-site authorities;
 - 5.5.2 approval of Emergency Notification forms (OPEP-02.6.21 Attachment 1);
 - 5.5.3 approval of press/news releases;
 - 5.5.4 off-site communications; and,
 - 5.5.5 environmental monitoring.
- 5.6 The following activities are sequenced in a progression for the declaration of a Notification of Unusual Event through a General Emergency in the most likely order of priority.

6.0 INSTRUCTIONS

NOTE: Two attachments, a flowchart and a checklist, are provided with this procedure for use as aids in the implementation of emergency plan actions. These attachments are not to be considered as all inclusive and are not intended as stand alone documents. Therefore, the appropriate specific procedures should be referenced to insure satisfaction of all requirements for the emergency conditions.

6.1 Emergency Declaration

- 6.1.1 Formally declare the appropriate emergency classification as determined by OPEP-02.1, Initial Emergency Actions, and log the event.
- 6.1.2 Make the following announcement over the plant Public Address (PA) System.

"Attention all personnel. The site is in a(n) (event classification) due to (brief description). The Site Emergency Coordinator is (name)."

6.0 INSTRUCTIONS

- 6.1.3 For Site Area Emergency and General Emergency classifications, sound the site evacuation alarm and make the following additional PA announcement:

“Attention all personnel. All non-essential personnel are to exit the protected area and report to your (primary or alternate) assembly location.” (Refer to OPEP-03.8.2, Personnel Accountability and Evacuation)

- 6.1.4 For any Emergency classification, if it is determined that conditions warrant an increased degree of personnel accountability, the SEC may sound the Site Evacuation Alarm; or Building Evacuation Alarms for isolated conditions, and direct the assembly of personnel in accordance with OPEP-03.8.2, Personnel Accountability and Evacuation.

- 6.2 Activate that portion of the emergency response organization necessary to respond to the emergency.

<p>NOTE: When BEN has been initiated at an ALERT or higher for the purpose of activating emergency facilities (i.e., ERO response to the site), it is not necessary to reinitiate BEN for subsequent additional emergency classifications.</p>

- 6.2.1 Notify Security, at the Secondary Alarm Station (SAS), to activate the Brunswick Emergency Notification (BEN) System using the appropriate scenario codes:

- 000 - Unusual Event, facilities will not activate, ERO placed on STANDBY
- 111 - Unusual Event, activates all facilities
- 222 - ALERT, activates all facilities
- 333 - Site Area Emergency (SAE), activates all facilities
- 444 - General Emergency (GE), activates all facilities

- 6.2.2 Notify on-shift personnel to assume their interim (or primary) emergency assignments. Make the following additional PA announcement to activate the onsite emergency facilities: “Attention all personnel. ERO personnel assigned emergency response duties are to proceed immediately to the TSC, OSC, and EOF, and begin activating their facilities.”

6.0 INSTRUCTIONS

- 6.3 Assign a Control Room Emergency Communicator to make immediate notifications.
- 6.4 Make initial notification to State and local governments within 15 minutes of the declaration of the emergency classification. **A General Emergency classification requires the inclusion of a protective action recommendation; provide in accordance with OPEP-02.6.28, Off-Site Protective Action Recommendations.**
- 6.4.1 Complete or direct the completion of an Emergency Notification Form in accordance with OPEP-02.6.21, Emergency Communicator, and approve for transmittal.
- 6.4.2 Conduct follow-up notifications to off-site agencies with a periodicity of 60 minutes (or less), or more frequently if warranted by changing conditions.
- 6.4.3 Any reclassification of an emergency requires notification to State and local governments within 15 minutes of the classification and to the NRC immediately following, but not to exceed 1 hour from classification.
- 6.5 Notify the Nuclear Regulatory Commission (NRC) of the emergency condition immediately following notification to State and local governments, but NRC notification must not exceed 1 hour from the emergency classification.

NOTE: If the declared emergency is the result of an emergency action level requiring a high classification (e.g., Site Area Emergency) that after a brief period is downgraded to a lower classification (e.g. Unusual Event), the off-site notification must indicate the current classification and it must also indicate the period of time that the higher classification existed and the mitigating conditions that caused the emergency classification to be downgraded.

NOTE: For long lasting events caused by natural phenomenon (e.g., hurricane, severe storms, earthquake) regular follow-up notifications to the State and counties MAY BE SUSPENDED, if both of the following criteria are met:

- The State and Counties agree to the suspension; and,
- There is no significant change in plant status

6.0 INSTRUCTIONS

- 6.6 Notify Chemistry to energize the Post Accident Sample System for classifications of a Site Area Emergency or General Emergency and if conditions warrant at an ALERT.
- 6.7 If a radiological release has occurred or the potential exists for a radiological release, implement OPEP-03.4.7, Automation of Off-Site Dose Projection Procedure.
- 6.8 Evaluate the need for outside agency assistance and if needed direct the Emergency Communicator to notify the appropriate agencies. All offsite agency response to the site must be coordinated with the Control Room, Security, and the EOF (when activated).
- 6.9 Monitor activation of the emergency facilities, including the notification and response of emergency response organization members to insure facility activation occurs within 75 minutes of the declaration of emergency classification.
- 6.10 Direct AO's not providing immediate support for the Control Room to report to the OSC, upon activation.
- 6.11 Initiate the Emergency Response Data System (ERDS) within 1 hour of the declaration of an ALERT or higher classification. (Reference OI-60)
- 6.12 Make periodic reports over the plant PA system to inform plant personnel of the emergency classification and situation.
- 6.13 Conduct an initial and periodic briefings for emergency organization personnel at 30 - 60 minute intervals or as required by changing conditions and personnel assignments. Briefings should contain the following information:
 - 6.13.1 Current emergency classification.
 - 6.13.2 Current plant status and conditions.
 - 6.13.3 Status of radiological releases or probability of a release.

6.0 INSTRUCTIONS

- 6.13.4 Status of on-site activities.
- 6.13.5 Facility habitability and access requirements.
- 6.13.6 Current radiological conditions, dose projections, and meteorological data.
- 6.13.7 Status of actions initiated by off-site agencies.
- 6.13.8 Other information pertinent to the emergency.
- 6.14 Continuously monitor and evaluate plant conditions using OPEP-02.1, Initial Emergency Actions, and compare to EAL criteria for reclassification or termination of the emergency.
- 6.15 Perform accident mitigation activities by evaluating plant conditions, determining appropriate EOP/SAMG mitigation strategies and implementing EOP/SAMG actions.
- 6.16 Review and approve any press/news releases associated with the emergency.
- 6.17 When relinquishing the responsibilities of the Site Emergency Coordinator position (activation of the TSC or position relief) provide a formal turnover briefing on emergency status and notify all appropriate personnel of the position turnover. (Attachment 3, SEC Turnover/Briefing Worksheet).
- 6.18 When all EAL criteria are determined to be less than event classification threshold values, coordinate with State and local agencies to terminate the classification and notify the NRC.
 - 6.18.1 If no actions were taken by the State or local agencies in response to the emergency classification (i.e., a Notification of Unusual Event - without facility activation), the event may be terminated and the off-site agencies informed without concurrence to terminate.
- 6.19 Complete and approve an Emergency Notification Form in accordance with OPEP-02.6.21, Emergency Communicator, for transmittal to State and local agencies to terminate the emergency.
- 6.20 Make a PA system announcement to inform plant personnel of event termination and exit this procedure.

7.0 RECORDS

Documentation generated from implementation of this procedure should be forwarded to the Supervisor - Emergency Preparedness for submittal to Document Services for retention.

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graph TD
    EVENT[EVENT] --> FIRE{FIRE}
    FIRE -- YES --> FIRE_PLAN[IMPLEMENT FIRE PLAN PFP-13]
    FIRE -- NO --> INJURY{PERSONNEL INJURY}
    INJURY -- YES --> INJURY_PLAN[IMPLEMENT OPEP-03.9.2]
    INJURY -- NO --> REQUEST[REQUEST OFFSITE ASSISTANCE IF NEEDED]
    REQUEST --> EVAC[PERFORM LOCAL EVACUATIONS AS NECESSARY OPEP-03.8.2]
    EVAC --> GENERAL{GENERAL EMERGENCY}
    GENERAL -- YES --> DECLARE_GEN[DECLARE GENERAL EMERGENCY AND LOG]
    DECLARE_GEN --> MAKE_PAR[MAKE PAR TO OFFSITE AUTHORITIES WITHIN 15 MINUTES IN ACCORDANCE WITH OPEP-02.6.28]
    MAKE_PAR --> PERFORM_GEN[PERFORM PERSONNEL ACCOUNTABILITY AND EVACUATION OPEP-03.8.2]
    PERFORM_GEN --> CHEM_GEN[HAVE CHEMISTRY ENERGIZE PASS HEAT TRACE]
    CHEM_GEN --> ASSIGN_GEN[ASSIGN AN EMERGENCY COMMUNICATOR]
    ASSIGN_GEN --> NOTIFY_GEN[NOTIFY SECURITY TO ACTIVATE BEN FOR NOTIFICATION OF ERO]
    NOTIFY_GEN --> COMPLETE_GEN[COMPLETE AND TRANSMIT EVENT NOTIFICATION WITHIN 15 MINUTES PER OPEP-02.6.21]
    COMPLETE_GEN --> ACTIVATE_GEN[ACTIVATE TSC, OSC, EOF WITHIN 60-75 MINUTES MAKE PA ANNOUNCEMENT]
    ACTIVATE_GEN --> IMPLEMENT_GEN[IMPLEMENT OPEP-03.4.7 IF NECESSARY]
    IMPLEMENT_GEN --> PERIODIC[CONDUCT PERIODIC BRIEFINGS FOR PLANT STAFF AT 30-60 MINUTE INTERVALS]
    PERIODIC --> TERMINATED{EVENT TERMINATED}
    TERMINATED -- YES --> NOTIFY_OFFSITE[NOTIFY OFFSITE AGENCIES, COMPLETE AND TRANSMIT NOTIFICATION]
    TERMINATED -- NO --> CONTINUE[CONTINUE ASSESSMENT]
    GENERAL -- NO --> SITE{SITE AREA EMERGENCY}
    SITE -- YES --> DECLARE_SITE[DECLARE SITE AREA EMERGENCY AND LOG]
    DECLARE_SITE --> MAKE_PAR
    SITE -- NO --> ALERT{ALERT}
    ALERT -- YES --> DECLARE_ALERT[DECLARE ALERT AND LOG]
    DECLARE_ALERT --> IF_WARRANT[IF CONDITIONS WARRANT, HAVE CHEMISTRY ENERGIZE PASS HEAT TRACE]
    IF_WARRANT --> PERFORM_GEN
    IF_WARRANT --> PERIODIC
    ALERT -- NO --> UNUSUAL{UNUSUAL EVENT}
    UNUSUAL -- YES --> DECLARE_UNUSUAL[DECLARE NOTIFICATION OF UNUSUAL EVENT AND LOG]
    DECLARE_UNUSUAL --> NOTIFY_UNUSUAL[NOTIFY SECURITY TO ACTIVATE BEN FOR NOTIFICATION OF ERO]
    NOTIFY_UNUSUAL --> ASSIGN_UNUSUAL[ASSIGN AN EMERGENCY COMMUNICATOR]
    ASSIGN_UNUSUAL --> COMPLETE_UNUSUAL[COMPLETE AND TRANSMIT EVENT NOTIFICATION WITHIN 15 MINUTES]
    COMPLETE_UNUSUAL --> NOTIFY_NRC[NOTIFY NRC WITHIN 1 HOUR]
    NOTIFY_NRC --> PERIODIC
    UNUSUAL -- NO --> FIRE
  
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ATTACHMENT 2
Page 1 of 1
Site Emergency Coordinator Actions Checklist

ACTION	UE	ALERT	SE	GE	COMPLETE
Declaration logged and announced	X	X	X	X	
Event notification form complete and approved (OPEP-02.6.21)	X	X	X	X	
Protective Action Recommendations (OPEP-02.6.28)				X	
Emergency Communicator Assigned	X	X	X	X	
NRC notified	X	X	X	X	
Security notified to activate BEN	X	X	X	X	
Activate TSC, OSC, EOF (Make PA announcement)		X	X	X	
ERDS activated (OI-60)		X	X	X	
Chemistry notified to energize PASS heat trace			X	X	
Site accountability and protected area evacuation initiated (OPEP-03.8.2)			X	X	
Dose projection initiated for a radiological releases or a potential release (OPEP-03.4.7)		X	X	X	
News Releases Approved	X	X	X	X	

ATTACHMENT 3
Page 1 of 4
SEC Turnover/Briefing Worksheet

A. EMERGENCY CLASSIFICATION STATUS

(CIRCLE): UNUSUAL EVENT ALERT SITE AREA EMERGENCY
GENERAL EMERGENCY

1. INITIATING EVENTS AND EALs EXCEEDED:

**2. STATUS OF EMERGENCY PROCEDURE IMPLEMENTATION AND
MITIGATING ACTIONS**

B. PLANT/REACTOR STATUS (circle): STABLE DEGRADING IMPROVING

1. FISSION PRODUCT BARRIER AND SAFETY SYSTEM STATUS

2. EVOLUTIONS IN PROGRESS

3. RADIOLOGICAL CONDITIONS

RELEASE IN PROGRESS (CIRCLE): YES NO

ATTACHMENT 3
Page 2 of 4
SEC Turnover/Briefing Work Sheet

C. ON-SITE PROTECTIVE ACTIONS

D. OFF-SITE PROTECTIVE ACTIONS

E. OFF-SITE ASSISTANCE REQUESTS

F. OFF-SITE NOTIFICATIONS

G. STATUS OF ERO ACTIVATION

H. STATUS OF OUTSIDE AGENCY MOBILIZATION

ATTACHMENT 3
Page 3 of 4
SEC Turnover/Briefing Work Sheet

A. Emergency Classification Status

1. Initiating Events and EALs exceeded:
 - Cause, history, and initiating events leading to emergency declaration
 - EALs exceeded
2. Status of Emergency Procedure Implementation and Mitigating Actions
 - Status of progress in emergency procedures
 - Corrective actions taken

B. Plant/Reactor Status

Condition/stability of reactor and plant

1. Fission Product Barrier and Safety System Status
 - Fission Product Barrier Status (fuel, RCS, containment)
 - Safety System alignments and status (flow rates, etc.)
2. Evolutions in Progress
 - Control Room activities
 - In plant activities (AOs, I&C, mechanics)
3. Radiological Conditions
 - Known in plant conditions (ARMS, RMS, etc.)
 - Known releases and duration

ATTACHMENT 3
Page 4 of 4
SEC Turnover/Briefing Work Sheet

C. On-Site Protective Actions

- Existing personnel hazards
- Evacuations (local, site) and status of accountability or assembly
- KI Administration (status)

D. Off-Site Protective Actions

- Status of Dose Assessment activities
- PARs made to State/County Agencies

E. Off-Site Assistance Request

- Fire, rescue squad, and law enforcement assistance requested

F. Off-Site Notifications

- Status of notifications made to:
 - State and Counties
 - NRC
 - INPO
 - Any others

G. Status of ERO Activation

- Minimum staffing positions not reporting in to BEN

H. Status of Outside Agency Mobilization

- Any Reports that the State and Counties, NRC, etc., are activating
- Requests from State/Counties/NRC, etc.
- Time/Content of any News Releases

REVISION SUMMARY

Revision 5 of OPEP-02.1.1 consists of the following administrative changes:

- Corrected the flow chart in Attachment 1, removing the activation of ERDS from the Unusual Event path.
- Added new Section 7.0, Records as an enhancement.
- Added Unusual Event to Attachment 3, Section A, SEC Turnover/Briefing Worksheet.