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

SHEARON HARRIS NUCLEAR POWER PLANT  
DOCKET NO. 50-400/LICENSE NO. NPF-63  
CHANGE TO EMERGENCY PLAN IMPLEMENTING PROCEDURES

Dear Sir or Madam:

In accordance with 10 CFR 50, Appendix E, Carolina Power & Light Company is transmitting one copy each of recently revised Harris Nuclear Plant Emergency Plan implementing procedures. The enclosure to this letter identifies the revised emergency plan implementing procedures and the effective date.

Questions regarding this submittal may be referred to Mr. J. R. Caves at (919) 362-3137.

Sincerely,

R. J. Field  
Manager, Regulatory Affairs  
Harris Nuclear Plant

MGW

Enclosures

- c: Mr. J. B. Brady (NRC Senior Resident Inspector, HNP)  
Mr. J. M. Goshen (NRR Project Manager, HNP)  
Mr. B. S. Mallett (Acting NRC Regional Administrator, Region II) two copies of procedure

A045

CHANGE TO EMERGENCY PLAN IMPLEMENTING PROCEDURES

<u>PROCEDURE NUMBER</u>	<u>TITLE</u>	<u>EFFECTIVE DATE</u>
PEP-110, Revision 8	Emergency Classification and Protective Action Recommendations	11/13/01
PEP-230, Revision 7	Control Room Operations	11/13/01
PEP-310, Revision 11	Notifications and Communications	11/13/01
PEP-110, Revision 9	Emergency Classification and Protective Action Recommendations	12/03/01

CAROLINA POWER & LIGHT COMPANY  
SHEARON HARRIS NUCLEAR POWER PLANT  
PLANT OPERATING MANUAL  
VOLUME 2  
PART 5

PROCEDURE TYPE: Plant Emergency Procedure  
NUMBER: PEP-110  
TITLE: Emergency Classification and  
Protective Action Recommendations

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## 1.0 PURPOSE

1. The purpose of this procedure is to provide guidance on the use of Emergency Action Levels (EALs) for classifying an emergency. This implements Section 4.1 of PLP-201.
2. This procedure provides guidelines for determining Protective Action Recommendations (PARs) to be made to offsite authorities during a General Emergency. This implements Section 4.5 of PLP-201.
3. This procedure provides guidance for summarizing events and actions taken during an event for use during facility turnover and facility briefings. This implements Section 2.3 of PLP-201.
4. This procedure provides guidance for event termination and entry into Recovery. This implements Section 6.7 of PLP-201.

## 2.0 INITIATING CONDITIONS

1. Conditions exist which, in the judgment of the Superintendent-Shift Operations (S-SO), could be classified as an emergency.
2. Entry into the Emergency Action Level network has been directed by any of the Emergency Operating Procedures, Fire Protection Procedures, Abnormal Operating Procedures, or any other procedure.
3. A Critical Safety Function Status Tree (CSFST) on the Safety Parameter Display System has produced a valid red or orange output and monitoring of the CSFSTs has been authorized in accordance with an approved procedure.
4. Notification has been received from the senior member of the Security Organization, or his designee, that a "Security Alert" or "Security Emergency" has been initiated.
5. Entry into the Emergency Action Level (EAL) Flowpath has been made at the discretion of the Site Emergency Coordinator for the purposes of reclassification.
6. A General Emergency has been declared.
7. Conditions have been stabilized and the Site Emergency Coordinator is preparing to terminate the emergency and enter into Recovery as per PEP-500.

### 3.0 PROCEDURE STEPS

#### 3.1 Emergency Classification

NOTE: • Implementation of this Section does not constitute an emergency.

- This section serves as a guideline to assist in comparison of plant conditions with Emergency Action Levels to evaluate whether an emergency should be declared.

1. Once implemented, this section shall remain in effect until either:
  - a. The determination has been made by the Superintendent-Shift Operations or his designated alternate, that an Emergency Action Level has not been exceeded.
  - b. Conditions which resulted in declaration of an emergency have been resolved and the emergency has been terminated.
2. Enter the Emergency Action Level (EAL) Flowpath at Entry Point X, unless directed to another entry point.
3. The Flowpath may be entered at any time at the discretion of the Site Emergency Coordinator (SEC-CR) or Superintendent-Shift Operations or designee. The Flowpath can be reentered as appropriate in order to check the classification or to reclassify an event in progress.

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#### CAUTION

The highest emergency class for which an Emergency Action Level was exceeded shall be declared.

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4. Complete the Flowpath, and if an emergency is declared, perform notifications in accordance with the highest level condition indicated on the EAL STATUS BOARD.
5. Implement PEP-230 and/or PEP-240 as appropriate.

#### 3.2 Plant Based Protective Action Recommendations (PARs)

1. Use Attachment 3, "Protective Action Recommendation Process" as an aid in determining the proper PAR.
2. At a minimum, evacuation of a 2 mile radius and 5 miles downwind (with sheltering of all other Subzones) will be recommended for a General Emergency declaration.

### 3.2 Plant Based Protective Action Recommendations (PARs) (continued)

3. Evacuation of a 5 mile radius and 10 miles downwind (with sheltering of all other Subzones) will be recommended for plant conditions in which:
  - a. Substantial core damage is imminent or has occurred. Indications that substantial core damage is imminent or has occurred include:
    - (1) Core damage estimations >1% Melt.
    - (2) Core Exit Thermocouple readings  $\geq 2300^{\circ}$  F.
    - (3) Core uncovered > 30 minutes.
  - b. A significant loss of reactor coolant is imminent or has occurred. Indications that a significant loss of reactor coolant is imminent or has occurred include:
    - (1) Containment Radiation Monitors reading:
      - >10,000 R/Hr with no containment spray.
      - >4,000 R/Hr with containment spray on.
    - (2) Containment hydrogen gas concentration >1%.
    - (3) Rapid vessel depressurization.
    - (4) A large break loss of coolant accident.
  - c. Containment failure (primary or S/G) is imminent or has occurred. Indications that containment failure (primary or S/G) is imminent or has occurred include:
    - (1) A release of radioactivity can not be maintained below the General Emergency EAL criteria.
    - (2) Primary containment pressure can not be maintained below design basis pressure which is 45 psig.
    - (3) Primary containment H<sub>2</sub> gas concentration can not be maintained below combustible limits which is 4% by volume.
    - (4) Faulted/Ruptured S/G with a relief valve open.
4. Containment monitors can provide indication of both core damage and RCS breach. Monitor values used to determine a specific amount of core damage are dependent on plant conditions, power history, and time after shutdown. Monitor readings used to quantify an amount of damage or coolant leakage should be complimented by other indications and engineering judgment.

### 3.2 Plant Based Protective Action Recommendations (PARs) (continued)

5. If a release is in progress:
  - a. Perform dose assessment as soon as possible to determine if PAGs are exceeded and if additional Subzones require evacuation.
  - b. Add any Subzones requiring evacuation as determined by dose assessment to the plant based PARs.
6. If no release is in progress:
  - a. Perform dose projections on possible conditions as time permits to determine if PAGs could be exceeded.
  - b. Consider adding any Subzones requiring evacuation as determined by dose projection to the plant based PARs.

### 3.3 Dose Assessment Based Protective Action Recommendations (PARs)

**NOTE:** Dose projections are not required to support the decision process in Attachment 3, "Protective Action Recommendation Process."

1. In the event dose assessment results indicate the need to recommend actions beyond the outer EPZ boundaries, that is past 10 miles:
  - a. Dispatch Environmental Teams to downwind areas to verify the calculated exposure rates prior to issuing PARs outside the EPZ.
  - b. Many assumptions exist in dose assessment calculations, involving both source term and meteorological factors, which make computer predictions over long distances highly questionable.
2. From the Control Room: If a release is in progress and time permits, perform offsite dose assessment in accordance with PEP-340 to determine whether the plant based protective actions of Attachment 3 are adequate.
3. From the Emergency Operations Facility: Conduct offsite dose assessment in accordance with PEP-340 to determine whether the plant based protective actions of Attachment 3 are adequate using the following methods as applicable:
  - a. Monitored Release:
    - (1) If a release is in progress, assess the calculated impact to determine whether the plant based PARs of Attachment 3 are adequate.



3.3. Dose Assessment Based Protective Action Recommendations (PARs)  
continued)

- (2) If a release is not in progress, use current meteorological and core damage data to project effluent monitor threshold values which would require 2, 5, and 10 mile evacuations (Attachment 3). Reestablish threshold values whenever meteorological conditions or core damage assessment values change.
  - b. Containment Leakage/Failure:
    - (1) If a release is in progress, assess the calculated impact to determine whether the plant based PARs of Attachment 3 are adequate.
    - (2) If a release is not in progress, use current meteorological and core damage data on various scenarios (design leakage, failure to isolate, catastrophic failure) to project the dose consequences.
      - Determine whether the plant based PARs of Attachment 3 are adequate.
      - Reestablish scenario values whenever meteorological conditions or core damage assessment values change.
  - c. Field Survey Analysis: Actual field readings from Environmental Teams should be compared to dose assessment results and used as a dose projection method to validate calculated PARs and to determine whether the plant or release based protective actions of Attachment 3 are adequate.
  - d. Release Point Analysis: Actual sample data from monitored or unmonitored release points should be utilized in conjunction with other dose assessment and projection methods to validate calculated PARs and to determine whether the plant based protective actions of Attachment 3 are adequate.
4. The Emergency Response Manager and the Radiological Control Manager shall discuss dose assessment and projection analysis results and evaluate their applicability prior to issuing PARs to the State if possible.

3.4 Downgrading the Emergency Classification Level

1. If the action level currently has abated to a lower declaration or the situation has been resolved prior to completion of off-site reporting:
  - a. Declare the highest classification for which an Emergency Action Level was exceeded, if not already done, and

### 3.4 Downgrading the Emergency Classification Level (continued)

- b. Downgrade immediately to the emergency classification appropriate for the present conditions.
2. Downgrading of an emergency is performed by issuing a notification to a lower emergency classification level whenever plant conditions improve to satisfy the affected Emergency Action Levels. However, the following guidelines apply:
    - a. If the Emergency Response Manager (ERM) position is activated, he shall be consulted before downgrading occurs.
    - b. If the NRC Director of Site Operations position is activated, he should be consulted before downgrading occurs.
    - c. If offsite Protective Action Recommendations have been made, the SEC-TSC shall consult with the ERM and with State and County authorities, prior to downgrading. It is recommended that any off-site Protective Action Recommendations be completed prior to downgrading of a General Emergency.
    - d. Where lasting damage has occurred to the fission product barriers or to safety systems, the ERM should transition to PEP-500 rather than a simple downgrade of the emergency.
    - e. For Alert or higher classifications, unless the conditions causing emergency action levels are very quickly resolved (less than approximately 30 minutes), downgrading should not occur until after the TSC and EOF are activated.

### 3.5 Emergency Termination and Transition to Recovery

1. If entering Recovery from an Unusual Event, determine the need for a Recovery Plan and support organization.
  - a. Generally, the activities following an Unusual Event will not require the formation of a Recovery Organization or a transition period prior to event termination and entry into Recovery.
  - b. Refer to PEP-500 for further guidance if recovery efforts following an Unusual Event extend beyond offsite notification and the generation of required reports.
2. Complete the Termination Checklist (Attachment 5).
  - a. If conditions will allow for the termination of the emergency and entry into Recovery, exit this procedure and enter PEP-500, "Recovery."

### 3.5 Emergency Termination and Transition to Recovery (continued)

- b. If conditions do not support termination of the emergency and entry into Recovery, continue following the guidance provided in Section 3.1.

## 4.0 GENERAL

### 4.1 Guidelines for Use of the EAL Flowpath

1. Equivalent parameters or redundant instrumentation, should be utilized whenever possible to confirm the validity of instrumentation response when evaluating Emergency Action Levels.
2. If, at any time, a General Emergency declaration is warranted, the SEC is to note the EAL Reference Number on the EAL status board. Immediately declare a General Emergency and carry out the appropriate actions.
3. If an event other than a General Emergency is warranted, the SEC is to circle the indicated level, note the EAL Reference Number on the EAL STATUS BOARD and continue through the Flowpath. Upon completion of the Flowpath the highest indicated level shall be declared.
4. The Flowpath can be entered or reevaluated at the discretion of the SEC.
5. The highest emergency class for which an Emergency Action Level was exceeded shall be declared.

### 4.2 Specific Rules for Use of the EAL Flowpath

1. Entry into the EAL Flowpath will be via Entry Point X unless otherwise specifically directed by an approved plant procedure or by the EAL Flowpath itself.
2. The MOST RECENT information is to be utilized, when answering the questions asked in the EAL Flowpath. The information available may precede the event that is in progress, but it should be used until superseded by new information. As an example, the Flowpath asks if RCS activity is greater than 300  $\mu\text{Ci/cc}$ . The SEC is to use the last sample results (for example 10  $\mu\text{Ci/cc}$ ) until the on-duty chemist reports otherwise.
3. When new data is available, the SEC is to reenter the EAL Flowpath at entry point X, unless directed by an approved procedure to enter at Point T, U, V, or Y.
4. When the Fission Product Barrier Analysis states to "Indicate a Fission Product Barrier (FPB) to be Breached, Jeopardized, or Intact," the SEC is to indicate (for example, with an X or check mark) the status on the FPB Status Board, before continuing with the Flowpath.

#### 4.2 Specific Rules for Use of the EAL Flowpath (continued)

5. If any item on the EAL Flowpath cannot be answered, it is to be circled and assumed to be satisfactory until proven otherwise and evaluation of the remainder of the Flowpath is continued without delay. Samples/analysis are to be requested, if the information is unavailable or suspect. This is acceptable because sufficient backup instrumentation is available, and utilized, so that declaration of the proper EAL should not be impeded.

**NOTE:** The term "functional" should not be confused with the term "operable" (that is, if a component is declared inoperable per Technical Specifications, it may still be functional if it can fulfill its desired task under current conditions).

6. The "Functions Required For Shutdown" Table (EAL Table 3) list those items required for the plant to achieve and maintain shutdown and cooldown conditions.
  - a. If the plant is in Modes 1, 2, or 3, then both the Mode 3 and the Modes 4-5 columns apply.
  - b. If the plant is in Mode 4 or 5, then only the Mode 4-5 column applies.
7. If the plant is in Mode 5 and no charging pumps are available, an Alert should be declared only if other means of charging (that is, RHR from the RWST) are unavailable.
8. When a "Continuing Action" is encountered, record on the EAL Status Board:
  - a. The time that the event began.
  - b. The time that the time limit expires.
  - c. The required time duration.
  - d. The current EAL that will be affected when the time expires.

#### 4.3 Protective Action Recommendations (PARs) General Guidance

1. PARs are made by HNP personnel whenever a General Emergency is declared. Additionally, if in the opinion of the Emergency Response Manager, or the SEC-CR if the EOF is not yet activated, conditions warrant the issuance of PARs, a General Emergency will be declared (HNP will not issue PARs for any accident classified below a General Emergency).
2. PARs provided in response to a radioactive release include evacuation and taking shelter.

#### 4.3 Protective Action Recommendations (PARs) General Guidance (continued)

- a. Evacuation is the preferred action unless external conditions impose a greater risk from the evacuation than from the dose received.
  - b. HNP personnel do not have the necessary information to determine whether offsite conditions would require sheltering instead of an evacuation. Therefore, an effort to base PARs on external factors (such as road conditions, traffic/traffic control, weather or offsite emergency worker response) should not be attempted.
3. At a minimum, a plant condition driven PAR to evacuate a 2 mile radius and 5 miles downwind, and shelter all other Subzones, is issued at the declaration of a General Emergency. Depending on plant conditions, a 5 mile radius and 10 miles downwind, and shelter all other Subzones, may be issued instead of the minimum PAR.
- a. PARs are included with the initial and follow-up notifications issued at a General Emergency.
  - b. The PAR must be provided to the State within 15 minutes of (1) the classification of the General Emergency or (2) any change in recommended actions.
  - c. The PAR must be provided to the NRC as soon as possible and within 60 minutes of (1) the classification of the General Emergency or (2) any change in recommended actions.
4. The Emergency Response Manager, or the SEC-CR if the EOF is not yet activated, may elect to specify PARs for any combinations of Subzones or the entire EPZ (or beyond) regardless of plant and dose based guidance.
5. PARs should not be extended based on the results of dose projections unless the postulated release is likely to occur within a short period of time. Plant based PARs are inherently conservative such that expanding the evacuation zone as an added precaution would result in a greater risk from the evacuation than from the radiological consequences of a release. It also would dilute the effectiveness of the offsite resources used to accommodate the evacuation.
6. Protective actions taken in areas affected by plume deposition following the release are determined and controlled by offsite governmental agencies.
- a. HNP is not expected to develop offsite recommendations involving ingestion or relocation issues following plume passage.
  - b. HNP may be requested to provide resources to support the determination of post plume protective actions.

4.3 Protective Action Recommendations (PARs) General Guidance (continued)

7. Throughout the duration of a General Emergency, assess plant conditions and effluent release status to ensure the established PARs are adequate.

5.0 REFERENCES

5.1 PLP-201, "Emergency Plan"

1. Section 4.1, "Emergency Classification"
2. Section 4.5.1, "Protective Action Guides"

5.2 Referenced Plant Emergency Procedures

1. PEP-230, "Control Room Operations"
2. PEP-240, "Activation and Operation of the Technical Support Center"
3. PEP-270, "Activation and Operation of the Emergency Operations Facility"
4. PEP-310, "Notifications and Communications"
5. PEP-500, "Recovery"

### 5.3 Other References

1. North Carolina Emergency Response Plan in Support of the Shearon Harris Nuclear Power Plant”
2. EPA 400-R-92-001, “Manual of Protective Action Guides and Protective Actions for Nuclear Incidents”
3. NUREG-0654 Supplement 3, “Criteria for Protective Action Recommendations for Severe Accidents”
4. NUREG/BR-0150, Vol. 4, Rev.4, US NRC, RTM-96 Response Technical Manual
5. Regulatory Guide 1.101 “Emergency Planning and Preparedness for Nuclear Power Plants”
6. EPPOS No.1 “Emergency Preparedness Position (EPPOS) on Acceptable Deviations to Appendix 1 to NUREG-0654/FEMA-REP-1”

### 6.0 SPECIAL TOOLS AND EQUIPMENT

1. EAL Flow Paths: Mounted EAL Flow Paths are maintained in the Main Control Room, TSC and EOF.
2. PAR Boards: Mounted PAR boards, based on Attachment 3, are maintained in the Main Control Room, TSC and EOF.

### 7.0 DIAGRAMS AND ATTACHMENTS

See Table of Contents

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**EAL FLOWPATH SIDE 1**

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A Folded Copy of the Emergency Action Level  
Flowpath (Rev. 01-2) is contained in the  
Plastic Sleeve Following This Hardcopy Page



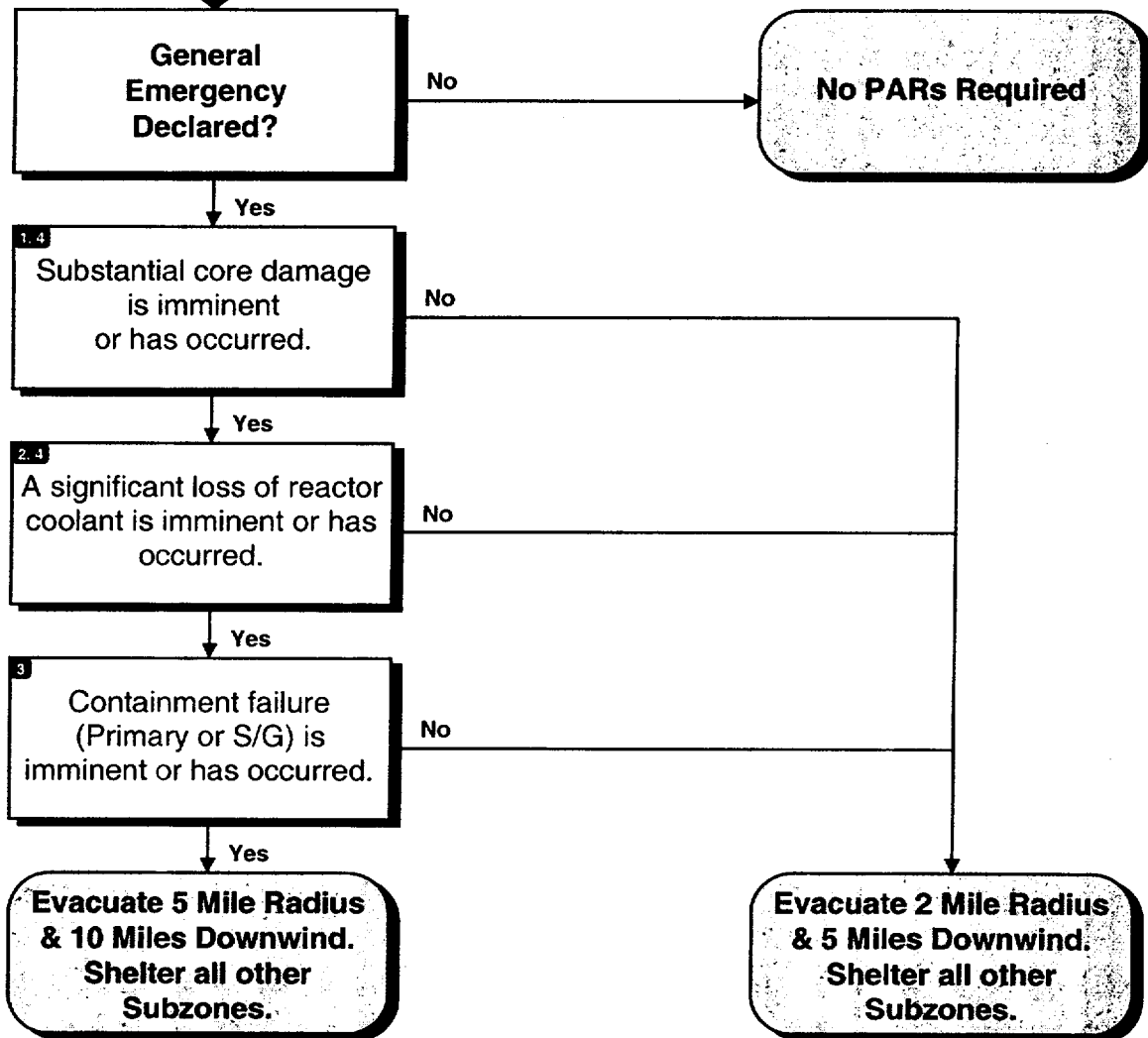
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**EAL FLOWPATH SIDE 2**

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A Folded Copy of the Emergency Action Level  
Flowpath (Rev. 01-2) is contained in the  
Plastic Sleeve Following This Hardcopy Page

**PROTECTIVE ACTION RECOMMENDATION PROCESS**



**5 Mile Radius, 10 Miles Downwind**

Wind Direction (From °)	Evacuate Subzones	Shelter Subzones
348° - 010°	A,B,C,D,H,I,K,L	E,F,G,J,M,N
011° - 034°	A,B,C,D,H,I,J,K,L	E,F,G,M,N
035° - 079°	A,B,C,D,I,J,K,L,M	E,F,G,H,N
080° - 101°	A,B,C,D,J,K,L,M,N	E,F,G,H,I,N
102° - 124°	A,B,C,D,J,K,L,M,N	E,F,G,H,I
125° - 146°	A,B,C,D,K,L,M,N	E,F,G,H,I,J
147° - 191°	A,B,C,D,E,K,L,M,N	F,G,H,I,J
192° - 214°	A,B,C,D,E,K,L,N	F,G,H,I,J,M
215° - 236°	A,B,C,D,E,F,K,L	G,H,I,J,M,N
237° - 259°	A,B,C,D,E,F,G,K,L	H,I,J,M,N
260° - 326°	A,B,C,D,F,G,H,K,L	E,I,J,M,N
327° - 347°	A,B,C,D,G,H,I,K,L	E,F,J,M,N

**2 Mile Radius 5 Miles Downwind**

Wind Direction (From °)	Evacuate Subzones	Shelter Subzones
327° - 010°	A,D,K	B,C,E,F,G,H,I,J,L,M,N
011° - 056°	A,K	B,C,D,E,F,G,H,I,J,L,M,N
057° - 124°	A,K,L	B,C,D,E,F,G,H,I,J,M,N
125° - 191°	A,B,L	C,D,E,F,G,H,I,J,K,M,N
192° - 214°	A,B	C,D,E,F,G,H,I,J,K,L,M,N
215° - 259°	A,B,C	D,E,F,G,H,I,J,K,L,M,N
260° - 281°	A,B,C,D	E,F,G,H,I,J,K,L,M,N
282° - 304°	A,C,D	B,E,F,G,H,I,J,K,L,M,N
305° - 326°	A,C,D,K	B,E,F,G,H,I,J,L,M,N

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**PROTECTIVE ACTION RECOMMENDATION PROCESS**

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1. Indications that substantial core damage is imminent or has occurred include:
  - a) Core damage > 1% Melt.
  - b) Core Exit Thermocouple readings  $\geq 2300^{\circ}$  F.
  - c) Core uncovered > 30 minutes.
2. Indications that a significant loss of reactor coolant is imminent or has occurred include:
  - a) Containment radiation reading > 10,000 R/Hr without spray or > 4,000 R/Hr with spray.
  - b) Containment hydrogen gas concentration > 1%.
  - c) Rapid vessel depressurization.
  - d) A large break loss of coolant accident.
3. Indications that containment failure (primary or S/G) is imminent or has occurred include:
  - a) A release of radioactivity can not be maintained below the General Emergency EAL criteria.
  - b) Primary containment pressure can not be maintained below design basis pressure which is 45 psig.
  - c) Primary containment H<sub>2</sub> gas concentration can not be maintained below combustible limits which is 4% by volume.
  - d) Faulted/Ruptured S/G with a relief valve open.
4. Accidents which result in a direct release pathway to the environment (for example, a faulted and ruptured S/G with water level below the tube bundles and a relief valve open would provide such a pathway) will most likely be thyroid dose limiting. For circumstances involving this type of accident sequence:
  - a) Consider **any** Fuel Breach sufficient to warrant the determination that substantial core damage has occurred.
  - b) Consider **any** RCS Breach sufficient to warrant the determination that a significant loss of reactor coolant has occurred.

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Containment monitors can provide indication of both core damage and RCS breach. Monitor values used to determine a specific amount of core damage are dependent on plant conditions, power history and time after shutdown. Monitor readings used to quantify an amount of damage or coolant leakage should be complimented by other indications and engineering judgment.

If a release is in progress:

- Perform dose assessment as soon as possible to determine if PAGs are exceeded and if additional Subzones require evacuation.
- Add any Subzones requiring evacuation as determined by dose assessment to the plant based PARs.

If no release is in progress:

- Perform dose projection on possible conditions as time permits to determine if PAGs could be exceeded.
- Consider adding any Subzones requiring evacuation as determined by dose projection to the plant based PARs.

Date/Time: \_\_\_\_\_

**EVENT INFORMATION WORKSHEET**

A) Emergency Classification	D) Radiological Release																
<p>Time Declared: _____ (24 hr)</p> <p><input type="checkbox"/> Unusual Event    <input type="checkbox"/> Alert</p> <p><input type="checkbox"/> Site Area        <input type="checkbox"/> General</p> <p>Provide a brief summary of the event and mitigating actions in progress:</p> <p>EAL: _____</p> <p>_____</p> <p>_____</p> <p>_____</p> <p>_____</p> <p>_____</p>	<p><input type="checkbox"/> None                      <input type="checkbox"/> Controlled</p> <p><input type="checkbox"/> Imminent                <input type="checkbox"/> Uncontrolled</p> <p><input type="checkbox"/> In Progress              <input type="checkbox"/> Below PAGs</p> <p>                                  <input type="checkbox"/> Above PAGs</p> <p>Time Started: _____ (24 hr)</p> <p>Noble Gas: _____ Ci/sec</p> <p>Iodines: _____ Ci/sec</p> <p>Projected Duration: _____ hours</p>																
B) Fission Product Barrier Status	E) Personnel Status																
<table style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th></th> <th style="text-align: center; border-bottom: 1px solid black;">Fuel</th> <th style="text-align: center; border-bottom: 1px solid black;">RCS</th> <th style="text-align: center; border-bottom: 1px solid black;">Cnmt</th> </tr> </thead> <tbody> <tr> <td>Intact:</td> <td style="text-align: center;"><input type="checkbox"/></td> <td style="text-align: center;"><input type="checkbox"/></td> <td style="text-align: center;"><input type="checkbox"/></td> </tr> <tr> <td>Jeopardy:</td> <td style="text-align: center;"><input type="checkbox"/></td> <td style="text-align: center;"><input type="checkbox"/></td> <td style="text-align: center;"><input type="checkbox"/></td> </tr> <tr> <td>Breached:</td> <td style="text-align: center;"><input type="checkbox"/></td> <td style="text-align: center;"><input type="checkbox"/></td> <td style="text-align: center;"><input type="checkbox"/></td> </tr> </tbody> </table>		Fuel	RCS	Cnmt	Intact:	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Jeopardy:	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Breached:	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<p>Missions in plant:        <input type="checkbox"/> No    <input type="checkbox"/> Yes</p> <p>Injuries (No. _____): <input type="checkbox"/> No    <input type="checkbox"/> Yes</p> <p>Contamination(s):        <input type="checkbox"/> No    <input type="checkbox"/> Yes</p> <p>Over Exposure(s):         <input type="checkbox"/> No    <input type="checkbox"/> Yes</p> <p style="padding-left: 150px;"><input type="checkbox"/> Minor   <input type="checkbox"/> Major</p> <p>Details (names of injured, status of family notification):</p> <p>_____</p> <p>_____</p> <p>_____</p>
	Fuel	RCS	Cnmt														
Intact:	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>														
Jeopardy:	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>														
Breached:	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>														
C) Plant Conditions	F) CP&L Facility Activation Status																
<p><input type="checkbox"/> On-Line                    <input type="checkbox"/> At Power: _____ %</p> <p><input type="checkbox"/> Off-Line                   <input type="checkbox"/> Cooling Down</p> <p style="padding-left: 150px;"><input type="checkbox"/> Cold Shutdown</p> <p>Time of Rx Shutdown: _____ (24 hr)</p> <p><input type="checkbox"/> Stable                      <input type="checkbox"/> Improving</p> <p><input type="checkbox"/> Unstable                   <input type="checkbox"/> Same</p> <p style="padding-left: 150px;"><input type="checkbox"/> Deteriorating</p> <p>Describe equipment, instrument, or other problems: _____</p> <p>_____</p> <p>_____</p> <p>_____</p> <p>_____</p>	<p><input type="checkbox"/> TSC: _____ (24 hr)</p> <p><input type="checkbox"/> OSC: _____ (24 hr)</p> <p><input type="checkbox"/> EOF: _____ (24 hr)</p> <p><input type="checkbox"/> JIC: _____ (24 hr)</p>																
G) Offsite Assistance Requested																	
<p><input type="checkbox"/> None</p> <p><input type="checkbox"/> Medical                    _____ (24 hr)</p> <p style="padding-left: 20px;"><input type="radio"/> Ambulance            <input type="radio"/> Helicopter</p> <p><input type="checkbox"/> Fire Department         _____ (24 hr)</p> <p style="padding-left: 20px;"><input type="radio"/> Holly Springs         <input type="radio"/> Apex</p> <p><input type="checkbox"/> Law Enforcement        _____ (24 hr)</p> <p style="padding-left: 20px;"><input type="radio"/> Local                    <input type="radio"/> State</p>																	

**EVENT INFORMATION WORKSHEET**

**H) Onsite Protective Actions**

- None
- Assembly/Accountability
- Local Area(s) Evacuated
- Protected Area Evacuated
- Exclusion Area Evacuated
- Potassium Iodide Issued
- Employee Info Phone #: \_\_\_\_\_

**I) Offsite Notifications (last issued)**

State/County	Time: _____ (24 hr)
NRC	Time: _____ (24 hr)
News Release	Time: _____ (24 hr)
Hospital	Time: _____ (24 hr)
INPO	Time: _____ (24 hr)
ANI	Time: _____ (24 hr)

**J) CP&L PARs**

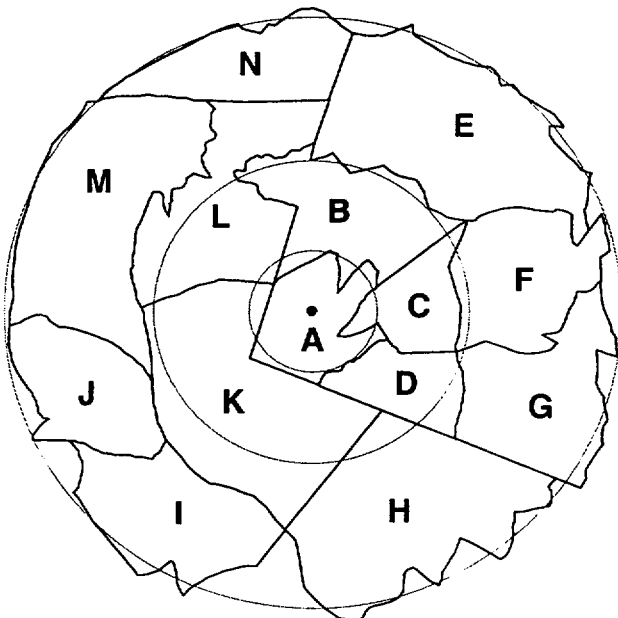
- None Issued, or
    - Evac: A B C D E F G H I J K L M N
    - Shelter: A B C D E F G H I J K L M N
- (circle the affected subzones)

**K) Offsite Facility Activation Status**

- Chatham County EOC: \_\_\_\_\_ (24 hr)
- Harnett County EOC: \_\_\_\_\_ (24 hr)
- Lee County EOC: \_\_\_\_\_ (24 hr)
- Wake County EOC: \_\_\_\_\_ (24 hr)
- State EOC: \_\_\_\_\_ (24 hr)
- NRC Incident Response Center: \_\_\_\_\_ (24 hr)

**L) Offsite Actions/Response**

- None Issued, or
    - Schools                       Daycare
    - Hospitals                       Rest Homes
    - Lake Evacuations
    - Other: \_\_\_\_\_
  - Evac: A B C D E F G H I J K L M N
  - Shelter: A B C D E F G H I J K L M N
- (circle the affected subzones)
- Sirens Activated: \_\_\_\_\_ (24 hr)
  - Tone Alerts Activated: \_\_\_\_\_ (24 hr)
  - EAS Activated: \_\_\_\_\_ (24 hr)



Notes: \_\_\_\_\_

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**TERMINATION CHECKLIST**

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- |   | <u>True</u>              | <u>False</u>             |
|---|--------------------------|--------------------------|
| 1. Conditions no longer meet an Emergency Action Level and it appears unlikely that conditions will deteriorate.  | <input type="checkbox"/> | <input type="checkbox"/> |
| List any EAL(s) which is/are still exceeded and a justification as to why a state of emergency is no longer applicable:   |                          |                          |
| <hr/>   |                          |                          |
| <hr/>   |                          |                          |
| <hr/>   |                          |                          |
| <hr/>   |                          |                          |
| <hr/>   |                          |                          |
| <hr/>   |                          |                          |
| 2. Plant releases of radioactive materials to the environment are under control (within Tech Specs) or have ceased and the potential for a uncontrolled radioactive release is acceptably low.  | <input type="checkbox"/> | <input type="checkbox"/> |
| 3. The radioactive plume has dissipated and plume tracking is no longer required. The only environmental assessment activities in progress are those necessary to determine the extent of deposition resulting from passage of the plume. | <input type="checkbox"/> | <input type="checkbox"/> |
| 4. In-plant radiation levels are stable or decreasing, and acceptable given the plant conditions.   | <input type="checkbox"/> | <input type="checkbox"/> |
| 5. The reactor is in a stable shutdown condition and long-term core cooling is available.   | <input type="checkbox"/> | <input type="checkbox"/> |
| 6. The integrity of the Reactor Containment Building is within Technical Specification limits.  | <input type="checkbox"/> | <input type="checkbox"/> |
| 7. The operability and integrity of radioactive waste systems, decontamination facilities, power supplies, electrical equipment and plant instrumentation including radiation monitoring equipment is acceptable.                         | <input type="checkbox"/> | <input type="checkbox"/> |
| 8. Any fire, flood, earthquake or similar emergency condition or threat to security no longer exists.   | <input type="checkbox"/> | <input type="checkbox"/> |

**TERMINATION CHECKLIST**

- |  | <u>True</u>              | <u>False</u>             |
|--|--------------------------|--------------------------|
| 9. Any contaminated injured person has been treated and/or transported to a medical care facility.   | <input type="checkbox"/> | <input type="checkbox"/> |
| 10. All required notifications have been made.   | <input type="checkbox"/> | <input type="checkbox"/> |
| 11. Offsite conditions do not unreasonably limit access of outside support to the station and qualified personnel and support services are available.          | <input type="checkbox"/> | <input type="checkbox"/> |
| 12. Discussions have been held with Federal, State and County agencies and agreement has been reached and coordination established to terminate the emergency. | <input type="checkbox"/> | <input type="checkbox"/> |

It is not necessary that all responses listed above be 'TRUE'; however, all items must be considered prior to event termination and entry into Recovery. For example, it is possible that some conditions remain which exceed an Emergency Action Level following a severe accident but entry into Recovery is appropriate. Additionally, other significant items not included on this list may warrant consideration such as severe weather.

Comments:

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Approved: \_\_\_\_\_ Date/Time: \_\_\_\_\_  
Site Emergency Coordinator

## Revision Summary for PEP-110 Rev. 8

<b>Pg./Section</b>	<b>Revision</b>
Pg. 3, 2.0.3	Updated CSFST color designation from "magenta" to "orange".
Pg. 9, 4.2.2	Replaced 'u' with proper symbol " $\mu$ "
Pgs. 14 & 15, Att. 1	Updated for EAL Revision 01-2 which was updated to implement updated Emergency Operating Procedure setpoints associated with Steam Generator Replacement.
Pgs 18 & 19, Att. 4	Deleted form number due to deletion of controlled forms program resulting from PassPort implementation. Corrected column alignment problem on Sheet 1. Update time references to consistently use 24 hour clock.
Pgs. 20 & 21, Att. 5	Deleted form number due to deletion of controlled forms program resulting from PassPort implementation.



**THIS PAGE IS AN  
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THE RECORD TITLED:  
REV. 01-2  
"EMERGENCY ACTION LEVEL  
FLOW PATH"  
SIDE 1**

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**D-1**

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**D-2**



CAROLINA POWER & LIGHT COMPANY  
SHEARON HARRIS NUCLEAR POWER PLANT  
PLANT OPERATING MANUAL  
VOLUME 2  
PART 5

PROCEDURE TYPE: Plant Emergency Procedure  
NUMBER: PEP-230  
TITLE: Control Room Operations

Table of Contents

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1.0 PURPOSE

1. This procedure partially implements Section 2.3 and Section 2.4 of the Emergency Plan PLP-201.
2. It specifies the actions taken by Emergency Response Organization (ERO) personnel who perform response activities from the Main Control Room.

2.0 INITIATING CONDITIONS

1. An emergency has been declared, or
2. Conditions exist that may warrant an emergency declaration.

3.0 PROCEDURE STEPS

1. If on-shift personnel assigned to MCR Emergency Response Organization (ERO) positions of Site Emergency Coordinator - Control Room and Emergency Communicator are not present in the MCR, they are to be immediately notified to report to the MCR.
2. Attachments 1-3 provide a listing of tasks and activities for the MCR Emergency Response Organization (ERO) positions
3. Attachment 4 provides a guideline for performance of periodic MCR/Operations staff briefs.
4. Attachment 5 provides a continuation page for POD and EC-CR logs started in Attachments 2 and 3
5. This procedure is implemented through the use of a notebook which is maintained in the MCR for each ERO position. The notebook contains copies of the PEP attachments most likely to be needed by the position (refer to the table below).

<b>ERO POSITION NOTEBOOK:</b>	<b>CONTENTS (Attachments)</b>	
<b>SITE EMERGENCY COORDINATOR-CR (SEC-CR)</b>	1. PEP-230, Att. 1 2. PEP-310, Att. 9 3. PEP-310, Att. 10	4. AP-617, Att. 5 5. PEP-110, Att. 4 6. PEP-230, Att. 4
<b>PLANT OPERATIONS DIRECTOR (POD)</b>	1. PEP-230, Att. 2 2. PEP-230, Att. 4	3. PEP-230, Att. 5 4. PEP-310, Att. 1 5. PEP-110, Att. 4
<b>EMERGENCY COMMUNICATOR-CR (EC-CR)</b>	1. PEP-230, Att. 3 2. PEP-310, Att. 6 3. PEP-310, Att. 7 4. PEP-310, Att. 8 5. Verification Code Words 6. PEP-310, Att. 11	7. PEP-310, Att. 12 8. PEP-310, Att. 1 9. PEP-310, Att. 14 10. PEP-230, Att. 5 11. PEP-310, Att. 9

#### 4.0 GENERAL

The Site Emergency Coordinator – CR and Emergency Communicator – CR Attachments (1 and 3) contain an “Initial Actions” section. The “Initial Actions” section is designed to guide the ERO member through the priority tasks following initial discovery of a condition or event requiring an emergency declaration. Specifically:

- Event declaration is required within 15 minutes of the time that plant parameters reach an Emergency Action Level.
- Alerting of on site personnel via Public Address announcement is required within 15 minutes of event declaration.
- Notification of event declaration to the State and County officials is required within 15 minutes of event declaration.
- Accountability must be completed within 30 minutes of; a Site Area Emergency or higher declaration; or decision to conduct accountability.
- Notification of event declaration to the NRC is required “as soon as possible” and no later than 60 minutes after an event declaration.
- Activation of the NRC ERDS data link is required within 60 minutes of an Alert or higher event declaration.

The Plant Operations Director attachment (2) also contains an “Initial Actions” section. This section is designed to guide the ERO member through the priority tasks associated with preparation for, and conduct of, the activation of the HNP Emergency Response Facilities.

The exact circumstances may dictate that portions of the Responsibility/Activity section be performed concurrent with the Initial Actions section of Attachments 1 - 3.

## 5.0 REFERENCES

### 5.1 Emergency Plan References

1. Section 2.3, "Command and Control"
2. Section 2.4, "Assignment of Responsibilities"

### 5.2 Referenced Plant Emergency Procedures

1. PEP-110, "Emergency Classification and Protective Action Recommendations"
2. PEP-310, "Notifications and Communications"
3. PEP-330, "Radiological Consequences"
4. PEP-340, "Radiological Assessment"
5. PEP-350, "Protective Actions"

### 5.3 Other References

1. AP-006, "Procedure Review and Approval"
2. AP-617, "Reportability Determination and Notification"
3. EPL-001, "Emergency Phone List"
4. EPM-420, "Emergency Equipment Inventory"
5. FPP-002, "Fire Emergency"
6. OP-163.01, "ERFIS Support Systems"
7. OP-173, "Control Room Area HVAC System"
8. PRO-NGGC-0200, "Procedure Use and Adherence"

## 6.0 DIAGRAMS/ATTACHMENTS

See Table of Contents

**SITE EMERGENCY COORDINATOR - CR**

**Position Function:** Manage and direct all emergency operations involving the facility and maintain overall onsite emergency responsibilities including classification.

**Initial Actions** (page 1 of 2)

1. If events may require implementation of the Emergency Plan, notify S-SO, STA and Emergency Communicator (EC) to **report to the MCR**. .....
2. If events require **fire** or **first aid** response:
  - a) Initiate Fire response actions per FPP-002 and Fire Area Pre-plans .....
  - b) Initiate First Aid response actions per PEP-350, Section 3.5 .....
  - c) Ensure First Aid/Search and Rescue Teams are prepared. ....
  - d) Direct the EC to initiate actions per his Notebook (PEP-230, Att. 3) .....
  - e) If required, direct the EC to request off-site support per PEP-310, Att. 1.....
3. Evaluate emergency classification per **EAL** Flow Path and PEP-110. ....
4. Perform a quick review of plant conditions with MCR staff (verify facts) .....
5. As soon as plant operational activities support, **brief MCR Crew** to include:
  - a) Emergency Classification \_\_\_\_\_ declaration time \_\_\_\_\_
  - b) Initial personnel assignments and expectations
    - Site Emergency Coordinator: \_\_\_\_\_,
    - Designate USCO to coordinate and supervise MCR activities and implement AOPs and EOPs as needed,
    - Emergency Communicator \_\_\_\_\_ per position notebook (PEP-230, Att. 3) .....
6. Direct Emergency Communicator (EC) to coordinate with USCO and brief plant site via PA system .....
7. If an **Unusual Event**, direct the EC to perform "Unusual Event Notification of Selected Personnel" per PEP-310-8, Part "A" .....
8. If **Alert or higher** (optional at Unusual Event), direct EC to perform ERO Activation per PEP-310, Att. 6 .....
9. If **General Emergency**, determine Protective Action Recommendations (PARs) per PEP-110, Section 3.2. ....

**(Initial Actions are continued on the next page)**



**SITE EMERGENCY COORDINATOR - CR**

**Initial Actions** (page 2 of 2)

10. Prepare **State and County** Emergency Notification Form (ENF) (refer to the guidelines in PEP-310, Att. 10, as necessary) by:
  - a) Using **ERFIS/RTIN** to prepare an automated version, or
  - b) Preparing an electronic equivalent of the **manual** form (PEP-310, Att. 9) or hand writing a paper copy of Manual Notification Form .....
11. Direct EC to complete State and County notifications per applicable method (PEP-310, Att. 11, for ERFIS or PEP-310, Att. 12, for Manual) .....
12. If Site Area or General Emergency, ensure performance of **accountability** per PEP-350 Section 3.1. ....
13. **Log** SEC-CR related activities within the S-SO Log. Examples of items to be included:
  - Times of major events (change in event classification, status of fission product barriers)
  - Specific mitigating actions taken
  - Authorization for protective actions or exemptions .....
14. Confer with USCO to maintain cognizance of plant conditions. ....
15. Determine method and content of **NRC** event declaration notification (reference PEP-310 Section 3.5 if needed):
  - a) State and County notification form, or
  - b) If time permits, AP-617, Att. 5.....
16. Direct EC to notify NRC of event declaration via method determined above. ...

**NOTE:** ERDS can be activated from any EDS/RTIN terminal in the MCR or the ERFIS computer room.

17. Ensure the Emergency Response Data System (**ERDS**) is activated at an Alert or higher classification.
  - a) Enter turn-on-code ERDS and depress <RETURN>. ....
  - b) After the ERDS menu appears, click/activate the "START ERDS" button... ..
  - c) Within 5 minutes, ERDS activation should be complete as indicated by:
    - The MCR ERFIS printer provides as "ERDS TASK HAS SUCCESSFULLY LINKED WITH THE NRC" printed message
    - ERDS = NORMAL displayed at the bottom center of ERFIS screens .....
18. **Proceed** to Responsibility/Activity section of this checklist. ....

**SITE EMERGENCY COORDINATOR - CR**

**Responsibility/Activity** (steps may be performed in any order and more than once)

1. If any radiation monitor in EAL Table 4 (PEP-110) is in high alarm, direct the STA to perform a **dose assessment** per PEP-340, Section 3.4, "Quick Assessment." .....
2. As **Conditions Change** or Data Becomes Available:
  - a) Monitor and **evaluate EALs** whenever:
    - 1) Plant or radiological conditions change significantly, or.
    - 2) Dose projection and/or field monitoring data is available. ....
  - b) If applicable, **upgrade** the Emergency Classification level .....

**NOTE:** For Alert or higher classifications, unless the conditions causing emergency action levels are quickly resolved (less than 30 minutes), downgrading should not occur until after the TSC and EOF are activated.

- c) If applicable, **downgrade** the Emergency Classification per PEP-110, Section 3.4 .....
- d) If applicable, **terminate** the emergency as follows
  - 1) For an Unusual Event:
    - When the situation is under control, and
    - Following consultation with appropriate CP&L personnel,
    - Declare the emergency terminated .....
  - 2) For other event classifications, which quickly abated (within approximately 30 minutes), terminate the emergency per PEP-110, Section 3.5. ....
  - 3) Perform applicable steps in the remainder of this attachment .....
- e) **Brief** the MCR Crew on any changes in event classification .....
- f) If event **classification has changed**, direct Emergency Communicator (EC) to coordinate with USCO and brief plant site via PA system per PEP-230, Att. 3. ....
- g) If required (**upgrade from an Unusual Event**), direct EC to perform ERO Activation per PEP-310, Att. 6 .....
- h) If in a **General Emergency**, reevaluate the adequacy of PARs when any of the following change:
  - Plant conditions
  - Dose projection results
  - Meteorological conditions
  - Field monitoring data .....
- i) Confer with USCO to maintain cognizance of plant conditions .....

**SITE EMERGENCY COORDINATOR - CR**

**Responsibility/Activity** (steps may be performed in any order and more than once)

- 3. If needed, direct the EC-CR to request offsite support  
(**fire/ambulance/sheriff**) per PEP-310-1 ..... \_\_\_\_\_
  
- 4. Perform **State and County Notification Activities**:
  - a) Within 15 minutes of a classification change, or change in PARs,  
complete a **initial notifications** as follows:
    - 1) Refer to the guidelines in PEP-310, Att. 10, as necessary
    - 2) Use **ERFIS/RTIN** to prepare an automated fax version, or
    - 3) Prepare an electronic equivalent of the **manual** form (PEP-310, Att. 9)  
or hand write a paper copy of Manual Notification Form ..... \_\_\_\_\_
    - 4) Direct EC to complete State and County notifications per applicable  
method (PEP-310, Att. 11, for ERFIS or PEP-310, Att. 12, for  
Manual) ..... \_\_\_\_\_
  
  - b) Within 60 minutes of the last notification, complete **follow-up  
notifications** as follows:
    - 1) Refer to the guidelines in PEP-310, Att. 10, as necessary
    - 2) Use **ERFIS/RTIN** to prepare an automated fax version, or
    - 3) Prepare an electronic equivalent of the **manual** form (PEP-310, Att. 9)  
or hand write a paper copy of Manual Notification ..... \_\_\_\_\_
    - 4) Direct EC to complete State and County notifications per applicable  
method (PEP-310, Att. 11, for ERFIS or PEP-310, Att. 12, for  
Manual) ..... \_\_\_\_\_
  
  - c) If requested, consider relaxing follow-up notification periodicity for long  
lasting events. This requires universal concurrence from the State and  
County officials. .... \_\_\_\_\_

**SITE EMERGENCY COORDINATOR - CR**

**Responsibility/Activity** (steps may be performed in any order and more than once)

**NOTE:** If continuous communications have not been established with the NRC, follow-up notifications are required at least every 60 minutes.

- 5. Perform **NRC** Notification and communication activities. The NRC must be kept informed of:
  - 1) Changes in the status of the plant.
  - 2) Changes in off-site radiological effects.
  - 3) All information provided to the State and Counties.
  
- b) Determine method and content of NRC notifications (reference PEP-310 Section 3.5 if needed).
  - Use the State/County Notification for initial notification of event declarations, **or**
  - Use AP-617, Att. 5, to provide more detail (required for follow-up notifications) .....
  
- c) Direct EC to notify the NRC via method determined above. ....

**NOTE:** ERDS can be activated from any EDS/RTIN terminal in the MCR or the ERFIS computer room.

- d) If not previously required, ensure the Emergency Response Data System (**ERDS**) is activated at an **Alert** or higher classification. ....
  - 1) Enter turn-on-code ERDS and depress <RETURN>.....
  - 2) After the ERDS menu appears, click/activate the "START ERDS" button .....
  - 3) Within 5 minutes, ERDS activation should be complete as indicated by:
    - The MCR ERFIS printer provides as "ERDS TASK HAS SUCCESSFULLY LINKED WITH THE NRC" printed message
    - ERDS = NORMAL displayed at the bottom center of ERFIS screens .....

**SITE EMERGENCY COORDINATOR - CR**

**Responsibility/Activity** (steps may be performed in any order and more than once)

**6. Onsite Protective Actions**

- a) Coordinate with the USCO to verify **on-shift personnel** status.
  - Operations Personnel - MCR Area  
(Normally inside the ventilation envelope) .....
  - All other on-shift personnel - normally in the OSC .....
- b) If **Alert or higher**, verify Security implements site access controls .....
- c) If a **radiological or hazardous material release** is in progress, or anticipated:
  - 1) Within 2 hours, verify CR Area Emergency Filtration is in service per OP-173, section 8.2 or section 8.3 as applicable. ....
  - 2) Verify Plant Computer and Communication Rooms Ventilation (SAS habitability) is aligned for operation with a CR Isolation signal per OP-163.01, Section 8.1 .....
  - 3) Use the map on sheet 11 to aid in identification of affected areas .....
  - 4) Direct HPs to perform habitability surveys in occupied areas .....
- d) If restrictions or a ban on eating and drinking are needed
  - 1) Ensure personnel on site are advised of the ban .....
  - 2) Verify Control Room personnel are aware of the ban .....

**NOTE:** At a Site Area or General Emergency classification level, accountability was automatically initiated through the PA announcement associated with the event

- e) If conditions hazardous to **personnel safety** exist, initiate accountability per PEP-350, Section 3.1. ....
- f) If personnel are assembled in the Administrative Building, determine if protective actions or evacuation of these personnel are needed .....
- g) Authorize the administration of **Potassium Iodide (KI)** to CP&L emergency workers per PEP-330 as necessary. ....

**SITE EMERGENCY COORDINATOR - CR**

**Responsibility/Activity** (steps may be performed in any order and more than once)

7. Additional **Communications**:

- a) If a **spent fuel shipment** is en-route to the site, notify the load dispatcher of the emergency declaration and classification level. .... \_\_\_\_\_
- b) Ensure the receiving hospital is notified of the transport of a contaminated injured person (the **First Aid Team** will obtain the designated treatment location from the rescue squad). .... \_\_\_\_\_
- c) Ensure the Emergency **Radiation Monitoring radio** channel is activated in the MCR (communication with Environmental Monitoring Teams). .... \_\_\_\_\_
- d) Refer to **EPL-001** for telephone numbers and instructions on the use of Emergency Response Facility (ERF) communications systems. .... \_\_\_\_\_
- e) Refer press or public inquires to CP&L **Public Information** personnel. .... \_\_\_\_\_
- f) If contacted by the **State and County** emergency response personnel, brief them on plant conditions and actions taken. .... \_\_\_\_\_
- g) **Request** Federal and State assistance as necessary. .... \_\_\_\_\_
- h) Verify all offsite **notifications** transmitted from the MCR are **faxed** to the TSC and EOF. .... \_\_\_\_\_
- i) If ERFIS is not available, designate an operator to record data from the control board on **Plant Parameter Information Forms** per PEP-310, Section 3.9. .... \_\_\_\_\_

8. Conduct **Periodic Briefings**

- a) Establish expectations for participation in periodic briefings. .... \_\_\_\_\_
- b) If not actively involved in in-plant tasks, direct Operations Personnel to be in MCR for briefings. .... \_\_\_\_\_
- c) Utilize PEP-230, Att. 4, as guidance for conduct of briefings .... \_\_\_\_\_

**SITE EMERGENCY COORDINATOR - CR**

**Responsibility/Activity** (steps may be performed in any order and more than once)

**9. Mitigating and Monitoring Actions**

- a) Direct the First Aid Team to initiate **search and rescue** for missing persons per PEP-350, Section 3.4. ....
- b) Authorize CP&L emergency worker exposures > **5 Rem TEDE** or entry into fields > **25 Rem/Hr** per PEP-330, Att. 1, as necessary.....
- c) If a **radiological release** is in progress, or anticipated, dispatch Environmental Monitoring Teams to implement PEP-330, Section 3.6.....
- d) Verify on-shift resources (**E&RC, Maintenance, Operations**) are providing support for in-plant mitigation activities. ....
- e) Verify personnel being sent into the plant or around the site are appropriately **briefed** prior to being dispatched. ....
- f) Verify dispatched personnel are **debriefed** upon return.....
- g) Direct **deviations from License Conditions** or Technical Specifications per PRO-NGGC-0200, Section 9.3. ....

**SITE EMERGENCY COORDINATOR - CR**

**Responsibility/Activity** (steps may be performed in any order and more than once)

**10. Activation of Emergency Response Facilities (ERFs)**

**NOTES:** Specific emergency response functions may be given to TSC or EOF personnel prior to actual facility activation (i.e. dose assessment, NRC communications, and so forth.) as deemed prudent.

The SEC-CR must maintain overall command and control of the ERO, including the non-delegable responsibilities, until formal relief occurs.

- a) Prepare an **Event Information Worksheet**, PEP-110-4, for use in briefing the Emergency Response Facilities ..... \_\_\_\_\_
- b) Verify that necessary plant information is available to the TSC and EOF. .. \_\_\_\_\_
- c) Normally, the TSC establishes a **conference call** with the OSC, EOF and MCR to conduct a pre-activation briefing for the oncoming ERO. When the OSC, TSC and EOF are ready, and MCR activities allow: .
  - 1) Use PEP-110, Att. 4, "Event Information Worksheet" as a briefing guide to review the status of:
    - Plant and recent activities..... \_\_\_\_\_
    - Location of in-plant teams/personnel ..... \_\_\_\_\_
    - Environmental Monitoring Team activities..... \_\_\_\_\_
    - Any applicable incomplete items from previous pages of this checklist ..... \_\_\_\_\_
    - Any assistance that is needed ..... \_\_\_\_\_
  - 2) Synchronize facility clocks (use ERFIS time)..... \_\_\_\_\_
- d) **Formally turn over** the following responsibilities to the SEC-TSC:
  - 1) Emergency classification..... \_\_\_\_\_
  - 2) Onsite protective actions..... \_\_\_\_\_
  - 3) Coordination of in-plant teams (other than Operations) ..... \_\_\_\_\_
  - 4) NRC notifications and communications. .... \_\_\_\_\_
  - 5) If not already performed, ERDS activation. .... \_\_\_\_\_
- e) **Formally turn over** the following responsibilities to the ERM (EOF):
  - 1) State and County notifications. .... \_\_\_\_\_
  - 2) Protective Action Recommendations. .... \_\_\_\_\_
  - 3) Dose projection. .... \_\_\_\_\_
  - 4) Coordination of Environmental Monitoring Teams. .... \_\_\_\_\_
  - 5) Additional CP&L ERO augmentation. .... \_\_\_\_\_
  - 6) All additional offsite notifications. .... \_\_\_\_\_



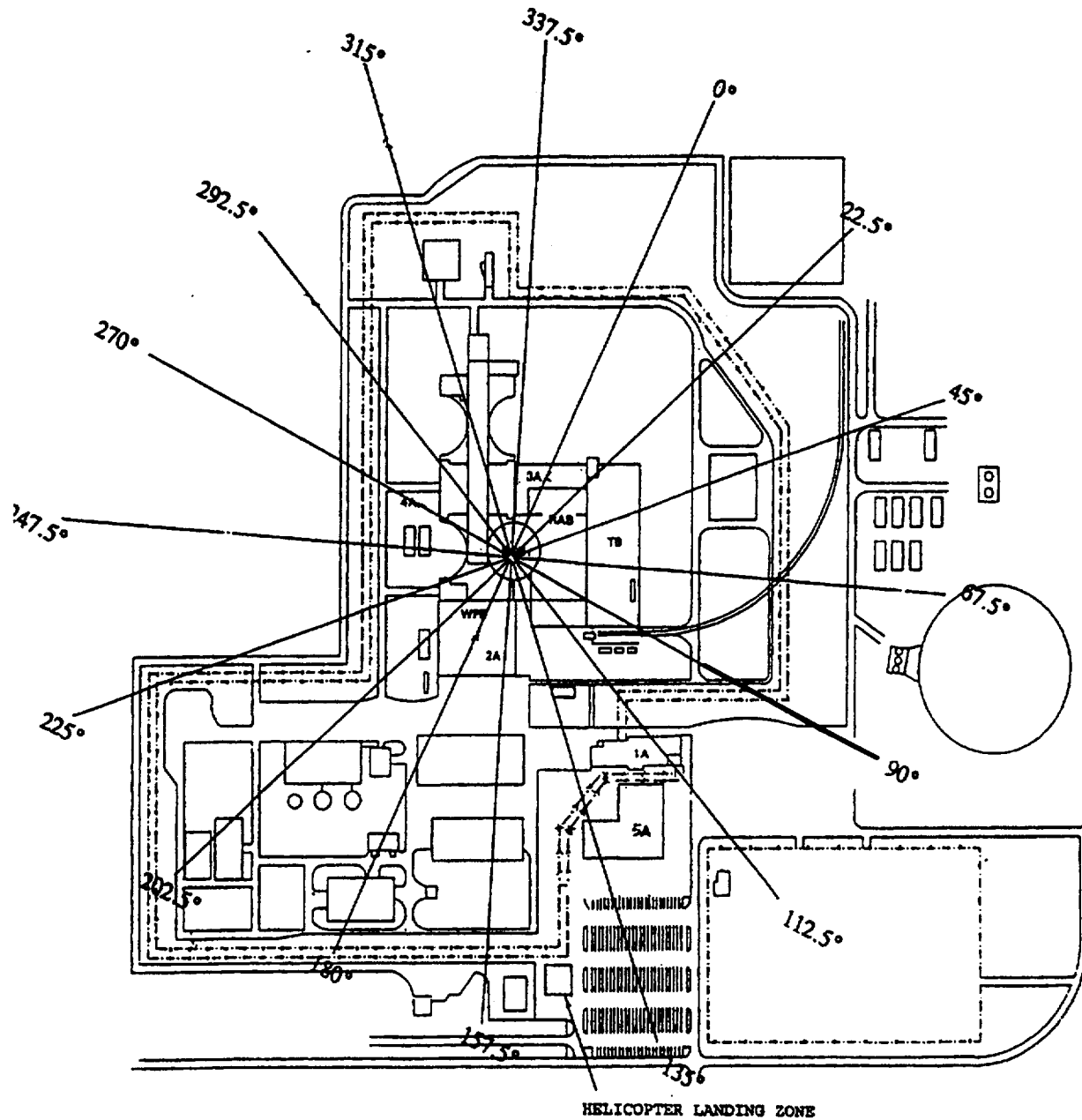
**SITE EMERGENCY COORDINATOR - CR**

**Responsibility/Activity** (steps may be performed in any order and more than once)

11. Take a turnover from the Unit SCO and reassume coordination and **supervision of MCR activities**.....\_\_\_\_\_
12. Inform MCR personnel when **temporarily leaving** the MCR (such as to the restroom).
  - a) Designate an individual to answer the phones while away. ....\_\_\_\_\_
  - b) Upon return, obtain a briefing on any events which have occurred while away from the work area. ....\_\_\_\_\_
13. Perform a **formal relief** of the position when permanently relieving another SEC-CR.
  - a) Review the S-SO and Emergency Communicator logs. ....\_\_\_\_\_
  - b) Obtain a briefing on the emergency and any actions that have been completed or are in progress.....\_\_\_\_\_
  - c) Initiate and maintain a new copy of PEP-230, Att. 1 .....\_\_\_\_\_
  - d) Ensure that MCR personnel are aware of the change. ....\_\_\_\_\_
14. Upon **termination** of the emergency:
  - a) Print out/copy S-SO log and prepare related emergency records .....\_\_\_\_\_
  - b) Assemble all logs and records from the MCR and forward to Emergency Preparedness .....\_\_\_\_\_
  - c) Copy and replenish the contents of the SEC position notebook.....\_\_\_\_\_
  - d) Inventory MCR Emergency Equipment per EPM-420.....\_\_\_\_\_
  - e) Verify MCR is restored and ready to respond to an emergency .....\_\_\_\_\_

**SITE EMERGENCY COORDINATOR - CR**

**SITE MAP**



**PLANT OPERATIONS DIRECTOR**

**Position Function:** Direct and supervise plant MCR operations and immediate response activities.

**Initial Actions** (page 1 of 2)

NOTE: The POD position is formally assumed upon activation of the TSC & EOF.

1. Upon arrival in the MCR, **notify the SEC-CR (S-SO)** that you are present..... \_\_\_\_\_
2. **Prepare** to assume the position of Plant Operations Director.
  - a) Initiate a **log** of activities (last page of this checklist). Examples of items to be included:
    - Times of major events (change in event classification, status of fission product barriers)
    - Specific mitigating actions taken
    - Logs are to be made by black indelible means, such as ink.
    - Corrections shall be made by drawing a single line through and initialing and dating the incorrect entry ..... \_\_\_\_\_
  - b) Determine the Nature and Extent of the Event ..... \_\_\_\_\_
  - c) Determine if any personnel have been dispatched from the MCR and their status. .... \_\_\_\_\_
  - d) Obtain status and readiness of Fire Brigade, and First Aid personnel.
    - 1) Determine if adequate personnel are available to fulfill these functions. .... \_\_\_\_\_
    - 2) Determine the applicable radio channels or telephone/ Ericsson numbers for the team leaders and members. .... \_\_\_\_\_
  - e) Consult with the SEC-CR regarding the prioritization of actions in progress, planned, or needed. .... \_\_\_\_\_
  - f) Ensure telephone and radio communications are operational. .... \_\_\_\_\_
  - g) Continue with preparations to assume POD on the next page ..... \_\_\_\_\_

**(Initial Actions are continued on the next page)**

**PLANT OPERATIONS DIRECTOR**

**Initial Actions** (page 2 of 2)

- h) Coordinate with the TSC-SRO to establish the Operations Mitigation Line (Cordless Ericsson phone for this is located in right hand drawer of Emergency Communicator desk). .....
  - i) Assist SEC-CR with preparation of **Event Information Worksheet**, PEP-110, Att. 4, for use in briefing the Emergency Response Facilities .....
  - j) Contact arriving SEC-TSC to coordinate timing of ERF briefing via conference call and ERF activation. ....
3. If applicable, verify **accountability** is performed for operations personnel per PEP-350, Section 3.1 .....
- a) Report any missing personnel to the Security Director. ....
  - b) Maintain accountability of personnel assigned to, or dispatched from, the MCR.....
4. Formally **assume** the position of **POD** when the TSC and EOF are activated. ....
5. **Proceed** to Responsibility/Activity section of this checklist. ....

**PLANT OPERATIONS DIRECTOR**

**Responsibility/Activity** (steps may be performed in any order and more than once)

1. **Monitor** and evaluate plant conditions:
    - a) Analyze plant parameters for trends. ....
    - b) Recommend changes to emergency classifications and identify any EAL conditions that are exceeded (per PEP-110) to the SEC-TSC. ....
    - c) Coordinate with the TSC for prioritization of actions. ....
    - d) Request any necessary engineering support. ....
  2. Direct the activities of **MCR** personnel:
    - a) Ensure an adequate MCR staff is available. ....
    - b) Ensure immediate corrective actions are carried out by MCR personnel. ....
  3. Ensure **accountability** is performed for operations personnel:
    - a) Coordinate accountability of personnel per PEP-350, Section 3.1 ....
    - b) Report any missing personnel to the Security Director. ....
    - c) Maintain accountability of personnel assigned to the MCR. ....
  4. Direct **fire** response activities:
    - a) Ensure fire alarms are sounded and the Fire Brigade is mustered. ....
    - b) Ensure Fire Brigade actions are performed in accordance with the Fire Plan and Fire Area Pre-plans. ....
    - c) Ensure Fire Brigade is briefed on hazards and radiological conditions .....
    - d) Monitor Fire Brigade communications. ....
    - e) Alert SEC-TSC of requests for additional on-site personnel or equipment. ....
- NOTE:** The MCR maintains the responsibility for contacting Offsite Support Organizations.
- f) Perform, or direct, requests for offsite support (**fire/ambulance/sheriff**) per PEP-310, Att. 1. ....
  - g) Notify the SEC-TSC of requests for offsite support. ....

**PLANT OPERATIONS DIRECTOR**

**Responsibility/Activity** (steps may be performed in any order and more than once)

- 5. Organize and direct **rescue** operations of **injured** personnel
  - a) Assemble the Search and Rescue Team..... \_\_\_\_\_
  - b) Consult with the Radiological Control Director (RCD) in the TSC to determine whether an ERWP is required. .... \_\_\_\_\_
  - c) Ensure radiological conditions are provided to teams being dispatched. .... \_\_\_\_\_
  - d) Ensure First Aid/Search and Rescue Teams are prepared:
    - 1) Instruct the Search and Rescue Team Leader to perform operations in accordance with guidance in PEP-350, Section 3.4. .... \_\_\_\_\_
    - 2) Dispatch First Aid/Search and Rescue Teams to the scene of the injury. .... \_\_\_\_\_
    - 3) Monitor First Aid/Search and Rescue communications. .... \_\_\_\_\_
    - 4) Notify the appropriate director of requests for additional personnel or equipment..... \_\_\_\_\_

**NOTE:** The MCR maintains the responsibility for contacting Immediate Response Organizations.

- e) Perform, or direct, requests for offsite support (**fire/ambulance/sheriff**) per PEP-310, Att. 1..... \_\_\_\_\_
  - f) Notify the SEC-TSC of requests for offsite assistance. .... \_\_\_\_\_
  - g) Coordinate with the SEC-TSC to identify an individual to accompany injured personnel to the treatment center. .... \_\_\_\_\_
  - h) Direct the Security Director to provide support when transporting an injured person by helicopter. .... \_\_\_\_\_
  - i) If an injured individual requires transportation off site and is contaminated:
    - 1) Ensure the Communications Director and Communications Manager are informed ..... \_\_\_\_\_
    - 2) Ensure hospitals are notified, as soon as possible, of the expected arrival of a contaminated injured patient. .... \_\_\_\_\_
- 6. If a **radiological release** is in progress, or anticipated:
    - a) Within 2 hours, verify CR Area Emergency Filtration is in service per OP-173, Section 8.2 or 8.3 as applicable..... \_\_\_\_\_
    - b) Verify Plant Computer and Communication Rooms Ventilation (SAS habitability) is aligned for operation with a CR Isolation signal per OP-163.01, Section 8.1. .... \_\_\_\_\_
  - 7. Implement operational aspects of Severe Accident Management Guideline (**SAMG**) strategies developed by the TSC as applicable. .... \_\_\_\_\_

**PLANT OPERATIONS DIRECTOR**

**Responsibility/Activity** (steps may be performed in any order and more than once)

- 8. Conduct **Periodic Briefings**
  - a) Establish expectations for participation in periodic briefings. ....
  - b) If not actively involved in in-plant tasks, direct Operations Personnel to be in MCR for briefings. ....
  - c) Utilize PEP-230, Att. 4, as guidance for conduct of briefings ....
- 9. Represent the MCR in periodic **inter-facility briefings** using PEP-110, Att. 4 \_\_\_\_\_
- 10. Refer to **EPL-001** for telephone numbers and instructions on the use of Emergency Response Facility (ERF) communications systems. ....
- 11. Evaluate the need for **deviations from License Conditions** or Technical Specifications per PRO-NGGC-0200, Section 9.3. ....
- 12. Process temporary **procedure changes** per AP-006 as needed. ....
- 13. Coordinate operations **shift turnover** with the Admin & Logistics Manager. ...
- 14. Refer **press or public** inquires to CP&L Public Information personnel. ....
- 15. Inform MCR personnel when **temporarily leaving** the MCR (such as to the restroom).
  - a) Designate an individual to answer the phones while away. ....
  - b) Upon return, obtain a briefing on any events which have occurred while away from the work area. ....

**PLANT OPERATIONS DIRECTOR**

**Responsibility/Activity** (steps may be performed in any order and more than once)

16. Perform a **formal relief** when permanently relieving another POD.
- a) Review the POD, S-SO and Emergency Communicator logs. ....
  - b) Obtain a briefing on the emergency and any actions that have been completed or are in progress.....
  - c) Ensure turnover is provided to an individual qualified to perform the duties of POD. ....
  - d) Initiate and maintain a new copy of PEP-230, Att. 2, including the log.....
  - e) Ensure the off-going POD completes his log sheets and related emergency records
    - Logs are reviewed for completeness and accuracy
    - All log sheets include date(s) and page numbers
    - Final page of the logs contains printed name and signature .....
  - f) Ensure that MCR personnel are aware of the change. ....
17. Upon **termination** of the emergency:
- a) Complete log sheets and related emergency records:
    - Review Logs for completeness and accuracy, including date(s) and page numbers
    - Print your name and sign the final page of the logs .....
  - b) Assemble all logs and records from the MCR and forward to Emergency Preparedness .....
  - c) Copy and replenish the contents of the POD position notebook .....
  - d) Inventory MCR Emergency Equipment per EPM-420.....
  - e) Verify MCR is restored and ready to respond to an emergency .....





**EMERGENCY COMMUNICATOR - CR**

**Position Function:** Perform notification of HNP, State, local and Federal emergency response personnel from the Main Control Room prior to TSC and EOF activation.

**Initial Actions** (page 1 of 1)

1. Upon arrival in the MCR, **notify the SEC-CR** (S-SO) that you are present and request direction/priorities .....
2. Initiate a **log** (last page of this checklist). .....
3. If directed to request offsite support (**fire/ambulance/sheriff**), initiate request per PEP-310, Att. 1 .....
4. When directed, coordinate with USCO and **brief plant site** via PA system per the applicable section from sheet 2, 3 or 4 of this form. ....
5. If directed, perform "Unusual Event Notification of Selected Personnel" PEP-310, Att. 8, Part "A" .....
6. If directed, activate the **Emergency Response Organization** per PEP-310, Att. 6.....
7. When directed, perform Initial **State and County notification** for either:
  - a) ERFIS/RTIN **automated** Fax method per PEP-310, Att. 11 **-or -**
  - b) **Manual** method per PEP-310, Att. 12 .....

**NOTES:**

- The NRC automatically records communications on ENS.
- Initial communications may be interrupted by patch-ins and/or requests to repeat information.
- The EAL reference numbers (X-Y-Z) are an aid to the local State/Counties. The NRC has no cross-reference to explain these numbers

8. When directed, notify **NRC** of event declaration
  - a) Contact the NRC Headquarters Operations Officer (HOO) at the NRC Incident Response Center by performing the following:
    - 1) On the ENS telephone, call one of the numbers listed on the phone, **or**
    - 2) If the ENS is not operable, use a normal telephone (the numbers are listed on ENS phone and in EPL-001). .....
  - b) When the NRC Headquarters Operations Officer responds, say: "THIS IS THE HARRIS NUCLEAR PLANT." and provide the emergency information provided by the SEC.....
  - c) Inform the NRC that you are signing off. (If requested to stay on and leave the line open, notify the SEC). .....
9. Proceed to Responsibility/Activity section of this checklist.....

**EMERGENCY COMMUNICATOR - CR**  
**PA Announcement Guidelines**

**CAUTION**

During a security event, it may be advisable **NOT** to sound an alarm or make a PA announcement.

**Unusual Event:**

- Make the following announcement over the PA system:  
**"Attention all personnel; attention all personnel: An Unusual Event has been declared due to ( \_\_\_\_\_ )."**  
*brief description of initiating event*  
**All members of the ERO standby for further instructions.**  
**All other personnel continue with your present duties."**
- If there is a localized emergency (for example, high radiation, fire), announce its type and location and instruct personnel to stand clear of this area.
- Repeat the PA Message(s).

**Alert:**

- Sound the Site Evacuation Alarm for 15 seconds
- Make the following announcement over the PA system:  
**"Attention all personnel; attention all personnel: An Alert has been declared due to ( \_\_\_\_\_ )."**  
*brief description of initiating event*  
**All members of the ERO report to your designated emergency response facility.**  
**All other HNP personnel exit the Protected Area and report to the Admin Building 2<sup>nd</sup> floor conference room area, and await instructions.**  
**All visitors, all nonessential contractor personnel, all declared pregnant females and all handicapped personnel please leave the site at this time."**
- If there is a localized emergency (for example, high radiation, fire), announce its type and location and instruct personnel to stand clear of this area.
- If there is a potential for an airborne radiological release, consider announcing that there will be no eating, drinking, or smoking until further notice.
- Repeat the Alarm and PA Message(s).

**EMERGENCY COMMUNICATOR - CR**

**PA Announcement Guidelines**

**CAUTION**

During a security event, it may be advisable **NOT** to sound an alarm or make a PA announcement.

Consider radiological conditions when preparing to evacuate personnel. If high dose rates will be encountered it may be better to shelter non-essential personnel onsite.

**Site Area Emergency:**

- Sound the Site Evacuation Alarm for 15 seconds
- Make **one** of the following announcements over the PA system:

a. If entering from no event or an Unusual Event:

**"Attention all personnel; attention all personnel: A Site Area Emergency has been declared due to ( \_\_\_\_\_ )."**

*brief description of initiating event*

**All ERO members report to your designated emergency response facility. All other personnel exit the Protected Area and leave the site. Security, initiate Accountability."**

**-OR-**

b. If upgrading from an Alert:

**"Attention all personnel, Attention all personnel: A Site Area Emergency has been declared due to ( \_\_\_\_\_ )."**

*brief description of initiating event*

**All personnel who are not part of the ERO exit the Protected Area and leave the site. Security, initiate Accountability."**

- If there is a localized emergency (for example, high radiation, fire), announce its type and location and instruct personnel to stand clear of this area.
- If there is a potential for an airborne radiological release, consider announcing that there will be no eating, drinking, or smoking until further notice.
- Repeat the Alarm and PA Message(s).

**EMERGENCY COMMUNICATOR - CR**

**PA Announcement Guidelines**

**CAUTION**

During a security event, it may be advisable **NOT** to sound an alarm or make a PA announcement.

Consider radiological conditions when preparing to evacuate personnel. If high dose rates will be encountered it may be better to shelter non-essential personnel onsite.

**General Emergency:**

- Sound the Site Evacuation Alarm for 15 seconds
- Make **one** of the following announcements over the PA system:

a. If entering from an Alert or lower:

**"Attention all personnel; attention all personnel: A General Emergency has been declared due to ( \_\_\_\_\_ )."**

*brief description of initiating event*

**All members of the ERO report to your designated emergency response facility. All other personnel exit the Protected Area and leave the site. Security, initiate Accountability. There will be no eating, drinking, or smoking until further notice."**

**-Or-**

b. If upgrading from a Site Area Emergency :

**"Attention all personnel, Attention all personnel: A General Emergency has been declared due to ( \_\_\_\_\_ )."**

*brief description of initiating event*

**There will be no eating, drinking, or smoking until further notice."**

- If there is a localized emergency (for example, high radiation, fire), announce its type and location and instruct personnel to stand clear of this area.
- Repeat the Alarm and PA Message(s).

**EMERGENCY COMMUNICATOR - CR**

**Responsibility/Activity** (steps may be performed in any order and more than once)

1. If directed to request offsite support (**fire/ambulance/sheriff**), initiate request per PEP-310-1 .....
2. If directed, (**emergency classification has changed**), coordinate with USCO and brief plant site via PA system per sheet 2, 3 or 4.....
3. If directed, (**upgrade from an Unusual Event**), activate the **Emergency Response Organization** per PEP-310, Att. 6.....
4. When directed, perform **State and County Notification** activities:
  - a) Within 15 minutes of a classification change, or change in PARs, complete an **initial notification** as follows:
    - 1) ERFIS/RTIN **automated** Fax method per PEP-310, Att. 11 **-or -**
    - 2) **Manual** method per PEP-310, Att. 12.....
    - 3) Ensure the State and County representatives clearly understand the notification message prior to ending the telephone conversation. ....
    - 4) Record and obtain answers to questions from offsite authorities involving the notifications. ....
  - b) Within 60 minutes of the last notification, complete **follow-up notifications** per applicable section of PEP-310
    - 1) ERFIS/RTIN **automated** Fax method per PEP-310, Att. 11 **-or -**
    - 2) **Manual** method per PEP-310, Att. 12.....
    - 3) Ensure the State and County representatives clearly understand the notification message prior to ending the telephone conversation. ....
    - 4) Record and obtain answers to questions from offsite authorities involving the notifications. ....

**EMERGENCY COMMUNICATOR - CR**

**Responsibility/Activity** (steps may be performed in any order and more than once)

- NOTES:**
- The NRC automatically records communications on ENS.
  - Initial communications may be interrupted by patch-ins and/or requests to repeat information.
  - If continuous communications have not been established with the NRC, follow-up notifications are required at least every 60 minutes (AP-617, Att. 5, is required for follow-up notifications)
  - The EAL reference numbers (X-Y-Z) are an aid to the local State/Counties. The NRC has no cross-reference to explain these numbers

5. When directed, notify **NRC** of event declaration
  - a) Contact the NRC Headquarters Operations Officer (HOO) at the NRC Incident Response Center by performing the following:
    - 1) On the ENS telephone, call one of the numbers listed on the phone,  
**or**
    - 2) If the ENS is not operable, use a normal telephone (the numbers are listed on ENS phone and in EPL-001). .....
  - b) When the NRC Headquarters Operations Officer (HOO) responds, say: "THIS IS THE HARRIS NUCLEAR PLANT." and provide the emergency information .....
  - c) Inform the NRC that you are signing off. (If requested to stay on and leave the line open, notify the SEC). .....
  
6. Refer to **EPL-001** for telephone numbers and instructions on the use of Emergency Response Facility (ERF) communications systems. ....
  
7. Ensure all offsite notifications transmitted from the MCR are faxed to the TSC and EOF. ....
  
8. Refer press or public inquires to Site Communications, as per EPL-001 Attachment 3, Section 7. ....
  
9. Inform SEC when **temporarily leaving** the MCR (such as to the restroom).
  - a) Designate an individual to answer the phones while away. ....
  - b) Upon return, obtain a briefing on any events which have occurred while away from the work area. ....

**EMERGENCY COMMUNICATOR - CR**

**Responsibility/Activity** (steps may be performed in any order and more than once)

10. Perform a **formal relief** when permanently relieving another EC-CR.
- a) Review the Emergency Communicator logs. ....
  - b) Obtain a briefing on the emergency and any actions that have been completed or are in progress .....
  - c) Ensure turnover is provided to an individual qualified to perform the duties of EC-CR. ....
  - d) Initiate and maintain a new copy of PEP-230, Att. 3, including the log.....
  - e) Ensure the off-going EC-CR completes his log sheets and related emergency records
    - Logs are reviewed for completeness and accuracy
    - All log sheets include date(s) and page numbers
    - Final page of the logs contains printed name and signature .....
  - f) Ensure that MCR personnel are aware of the change. ....
11. **Activation of Emergency Response Facilities (ERFs)**
- a) Transmit Plant Parameter Information Forms to the TSC and EOF if ERFIS is not available. ....
  - b) Respond to inquiries for the TSC and EOF staff in preparation for turnover of communications responsibilities. ....
  - c) Complete log sheets and related emergency records
    - Logs are reviewed for completeness and accuracy
    - All log sheets include date(s) and page numbers
    - Final page of the logs contains printed name and signature .....
  - d) Assemble all logs and records and provide to the S-SO (SEC-MCR) or POD .....
  - e) Copy and replenish the contents of the EC-CR position notebook.....
  - f) Assist with inventory of MCR Emergency Equipment per EPM-420 as directed .....
12. For **termination** of the emergency without ERF activation, perform steps 11.c - f above .....





**CONTROL ROOM EMERGENCY BRIEFING GUIDE**

**DATE:** \_\_\_\_\_ **TIME:** \_\_\_\_\_

<b>CONTROL ROOM</b>	
<b>1) EALS:</b> <ul style="list-style-type: none"> <li>• Existing EAL Initiating Conditions</li> <li>• Potential Initiating Conditions</li> </ul>	<b>NOTES:</b>
<b>2) FPB:</b> <ul style="list-style-type: none"> <li>• Jeopardy/breached</li> <li>• Potential</li> </ul>	
<b>3) Plant Conditions:</b> <ul style="list-style-type: none"> <li>• Status</li> <li>• Potential</li> </ul>	
<b>4) Equipment</b> <ul style="list-style-type: none"> <li>• OOS</li> <li>• Equipment Needs</li> <li>• Personnel Needs</li> </ul>	
<b>IN-PLANT AND ON-SITE</b>	
<b>1) Activities</b> <ul style="list-style-type: none"> <li>• Personnel</li> <li>• Location</li> <li>• Priority</li> <li>• Expected completion time</li> </ul>	<b>NOTES:</b>
<b>2) Hazards / Safety Issues</b> <ul style="list-style-type: none"> <li>• Radiological conditions</li> <li>• Release / Wind Direction</li> <li>• Chemical / other</li> </ul>	
<b>OTHER ITEMS APPLICABLE PRIOR TO ERF ACTIVATION AND THEIR ASSUMPTION OF TASKS</b>	
<b>1) Communications</b> <ul style="list-style-type: none"> <li>• State/County</li> <li>• NRC</li> <li>• Media, Other</li> </ul>	<b>NOTES:</b>
<b>2) Radiological</b> <ul style="list-style-type: none"> <li>• KI Issuance</li> <li>• Dose Assessment</li> <li>• Environmental Monitoring Teams</li> </ul>	
<b>Set Expectations:</b> <ul style="list-style-type: none"> <li>• Anticipated plant Conditions</li> <li>• Critical MCR Activities</li> <li>• Critical In the field Activities</li> </ul> <b>Other Areas of focus:</b>	

■ ■ ■ "Next Briefing at \_\_\_\_\_. This is the end of Briefing." ■ ■ ■



## PEP-230, REV. 7, REVISION SUMMARY

Revision 7 provides reference to a 2 hour requirement for initiation of Control Room Alternative Source Term pressurization assumptions per ESR 94-0001.

<u>Section</u>	<u>Description of Change(s):</u>
3.0, Item 5, pg 3	Added PEP-110, Att. 4 to the POD position notebook contents (DCF 2001P1720)
Att. 1, pg 11, Item 6.c	Added "Within 2 hours" to existing step to "verify CR Area Emergency Filtration . . ."
Att. 1, pg 12, Item 7.i	Corrected PEP-310 section reference for PPIFs (3.8 changed to 3.9)
Att. 2, pg 20, Item 6	Added "Within 2 hours" to existing step to "verify CR Area Emergency Filtration . . ."

Previous revision (6) incorporates changes associated with Harris Business Plan initiative referred to as "Phase 3" ERO Reorganization. This consolidates all Operations resources to be controlled and coordinated from the MCR. Deletion of controlled "forms" designations was removed as a result of Indus Passport document control process implementation.

CAROLINA POWER & LIGHT COMPANY  
SHEARON HARRIS NUCLEAR POWER PLANT  
PLANT OPERATING MANUAL

VOLUME 2

PART 5

PROCEDURE TYPE: Plant Emergency Procedure  
NUMBER: PEP-310  
TITLE: Notifications and Communications

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## **1.0 PURPOSE**

The purpose of this procedure is to provide instructions and documentation for:

1. Requesting assistance from offsite support organizations (Immediate Response Organizations).
2. Notifying HNP Emergency Response Organization (ERO) personnel by automated and manual means.
3. Notification of offsite Emergency Response Organizations and authorities.
4. Notifications to the Nuclear Electric Insurance Limited (NEIL), Institute of Nuclear Power Operations (INPO) and American Nuclear Insurers (ANI).

## **2.0 INITIATING CONDITIONS**

1. An emergency has been declared.
2. An event has occurred which requires a response from an offsite support organization (such as fire, medical or local law enforcement).

## **3.0 PROCEDURE STEPS**

### **3.1 Requesting Off-Site Support**

Instructions and documentation for response requests to offsite support organizations (fire, medical, law enforcement), also referred to as Immediate Response Organizations, is performed using PEP-310 Attachment 1.

### **3.2 Notifications Checklists**

Checklists for use by the SEC-TSC/ERM to perform initial notifications following the declaration of an emergency are documented using the following appropriate Attachments to this procedure:

1. PEP-310 Attachment 2, Unusual Event
2. PEP-310 Attachment 3, Alert
3. PEP-310 Attachment 4, Site Area Emergency
4. PEP-310 Attachment 5, General Emergency

### **3.3 Activation of the Emergency Response Organization (ERO)**

1. The Control Room staff initiates a Public Address System announcement directing on-site members of the ERO to activate the Emergency Response Facilities in accordance with PEP-230.
2. The Control Room staff initiates activation of the remainder of the ERO using PEP-310 Attachment 6. In the event of a Dialogic computer malfunction, PEP-310 Attachment 7 or PEP-310 Attachment 8, Part B, are used to initiate back-up methods of ERO activation.
3. Emergency Preparedness is to be contacted if any malfunction of the Dialogic System occurs.

### 3.4 Notification of Selected Personnel During an Unusual Event

For an Unusual Event, without staffing of the Emergency Response Facilities, selected personnel are notified using Part "A" of PEP-310 Attachment 8.

### 3.5 State and County Emergency Notifications

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#### CAUTIONS

- Initial notification must occur within 15 minutes after the declaration of an emergency, a change in the classification level or a change in a Protective Action Recommendation.
  - Follow-up notification must occur within 60 minutes of the last notification while in a declared emergency.
- 

#### 1. Prepare the Notification Message

A. Prepare the transmitted portion of the Emergency Notification Form (ENF), referring to the guidelines in PEP-310 Attachment 10 as necessary, by :

- 1) Using ERFIS/RTIN to prepare an automated version, or.
- 2) Hand writing a paper copy of PEP-310 Attachment 9, or
- 3) Preparing an electronic equivalent of PEP-310 Attachment 9.

B. The SEC-CR (or ERM if the EOF is activated) must review the message content, edit as necessary, and approve it for release.

#### 2. Transmit the Notification Message

- NOTES:
- Once the State and/or County Emergency Operations Centers (EOC's) are activated, they will request that notification be transmitted directly to the EOCs rather than the Warning Points (WPs).
  - ERFIS/RTIN prepared ENFs are simultaneously faxed to each of the WPs and then each of the EOCs.
- A. If the required locations have been sent a copy of the Emergency Notification Form via ERFIS (1.A.1 above), communicate the content of the form using PEP-310 Attachment 11, ERFIS Method).
  - B. If using the PEP-310 Att 9 Emergency Notification Form (1A.2 or 1.A.3 above), communicate the content using PEP-310 Attachment 12, Manual Method.



### 3.6 Nuclear Regulatory Commission Notifications

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#### CAUTIONS

- Initial notification must occur as soon as possible (but not to exceed one hour) following the declaration of an emergency or a change in the classification level, unless continuous communications are established.
  - Activation of the NRC ERDS data link is required within 60 minutes of an Alert or higher event declaration.
  - Follow-up notification must occur within 60 minutes of the last message, unless continuous communications are established.
  - A qualified Emergency Communicator-NRC or SRO must be available to continuously communicate with the NRC via the Emergency Telecommunications System (ETS) or commercial telephone line within one hour of the initial event declaration.
- 

- NOTES:
- Initial NRC event notification from the MCR may be performed using the State/County Emergency Notification Form in order to expedite the notification.
  - Communications on the ETS are automatically recorded by the NRC.
  - Initial communications will likely be interrupted by patch-ins and/or requests to repeat information.
1. Prepare the information for the NRC Notification (AP-617, or State/County notification form of section 3.5 for initial MCR notifications)
  2. Contact the NRC Headquarters Operations Officer at the NRC Incident Response Center by performing the following:
    - A. Pick up the receiver on the ETS telephone and call the NRC via one of the numbers listed on the phone.
    - B. If the ETS phone is not operable, use a normal telephone line to contact the NRC Incident Response Center. The numbers are listed on the ETS phone and in the Emergency Phone List (EPL-001).
  3. When the Headquarters Operations Officer responds, say: "THIS IS THE HARRIS NUCLEAR PLANT." and provide the emergency notification information.
  4. Respond to any requests for additional information that you can answer, otherwise, state that the information is not yet available and will be provided in a follow up message.
  5. Record the name of the individuals contacted and time of contact.

### 3.6 Nuclear Regulatory Commission Notifications (continued)

- NOTES:**
- ERDS can be activated from any EDS/RTIN terminal in the MCR or TSC.
  - ERDS = NORMAL should be displayed at the bottom center of the ERFIS screens within 5 minutes of system activation in the following step.
6. Verify Emergency Response Data System (**ERDS**) is activated at an Alert or higher classification.

### 3.7 Notification of the INPO and ANI

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**CAUTION**

Notification must occur within four (4) hours after declaration of an Alert, Site Area Emergency, or General Emergency.

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1. Complete the Institute of Nuclear Power Operations (INPO) and American Nuclear Insurers (ANI) Notification Form (PEP-310 Attachment 13).
2. Using EPL-001, contact the INPO and ANI Duty Officers.
3. If contact is made with an answering machine or service:
  - A. Give the plant name, your name and telephone number for the Duty Officer to return the call.
  - B. When completing the form, enter "machine" instead of an individual's name.
4. Read the notification form directly to each Duty Officer and then record the name of each person notified, or
5. After notification is complete, record the date/time and sign the form.

### 3.8 Notification of Nuclear Electric Insurance Limited

**NOTE:** This notification is only applicable to events involving equipment damage.

1. The notification should be performed during normal working hours.
2. Notify the Corporate Insurance Administrator (see EPL-001) of the event and provide any details required for them to make the notification.

### 3.9 Transmittal of Plant Parameter Information to the TSC and EOF (ERFIS Failure)

1. Have the Admin and Logistics Manager (EOF) call in the following additional personnel while continuing with this procedure:
  - A. One Licensed operator to report to the Main Control Room to assist with data transmittal.

3.9 Transmittal of Plant Parameter Information to the TSC and EOF (ERFIS Failure)  
(continued)

- B. One member of the operations staff to report to the TSC.
  - C. One member of the operations staff to report to the EOF.
  - D. Additional administrative support to report to the TSC and EOF for posting data.
2. A licensed operator in the MCR shall:
    - A. Prepare a copy of the Plant Parameter Information Form (PEP-310 Attachment 14) at 15 minute intervals, or as appropriate.
    - B. Fax the PPIF sheets, or verbally transmit the data, to the TSC and EOF (see EPL-001).
  3. TSC and EOF administrative personnel should post information as follows:
    - A. Copy the PPIF forms and distribute to appropriate personnel within the facilities, including the NRC, as directed.
    - B. Present the information by transcribing on status boards or project onto screens, as directed.
  4. TSC-SRO and EOF-SRO will provide clarification of data as needed
  5. When additional Operations staff arrive in the TSC and EOF they will:
    - A. Provide updated plant information from the Main Control Room to the TSC and EOF.
    - B. Relieve the TSC SRO and EOF SRO of the duties associated with clarification of data within their facility.
    - C. Coordinate data needs of the OSC and JIC.

**4.0 GENERAL**

4.1 Regulations and Other Commitments

- Alerting of on site personnel via Public Address announcement is required within 15 minutes of event declaration.
- Federal Regulations state "A licensee shall have the capability to notify responsible State and local governmental agencies within 15 minutes after declaring an emergency." This is satisfied when the event's emergency classification level has been directly communicated to the State and County officials (at least one of the agencies).
- Notification of event declaration to the NRC is required "as soon as possible" and no later than 60 minutes after an event declaration.
- Activation of the NRC ERDS data link is required within 60 minutes of an Alert or higher event declaration.

#### 4.1 Regulations and Other Commitments (continued)

- Notification to Institute of Nuclear Power Operations (INPO) and American Nuclear Insurers (ANI) must occur within four (4) hours after declaration of an Alert, Site Area Emergency, or General Emergency.
- Nuclear Electric Insurance Limited (NEIL) notification is only applicable to events involving equipment damage.

#### 4.2 ERO Activation (Call-Out) During Normal Working Hours

- NOTES:
- Normal working hours are 0730 to 1600, Monday through Friday (other than CP&L Holidays).
  - Control Room actions are the same for normal and off-normal hours.
  - The Dialogic Computer programming directs calls to where personnel are expected to be (that is, to work numbers during normal hours and a priority placed on calling home numbers during off-hours).
  - During "Normal working" hours ERO members are to report directly to the Emergency Response Facilities without taking time to "call in."

1. The Main Control Room (MCR), normally the Emergency Communicator - Control Room, makes a Public Address system announcement directing all ERO personnel to report to their Emergency Response Facilities.
2. ERO personnel are to respond to the PA announcement by directly reporting to their assigned emergency response facility.
3. The Emergency Communicator - Control Room activates the Dialogic system using PEP-310 Attachment 6.
  - A. The Dialogic system initiates the group call pagers of ERO members.
    - 1) The pagers will display a numeric message indicating the telephone number of Dialogic followed by a two number code (-X-1) where the "X" corresponds to the event classification level and the "1" signifies facility activation required (Pager carrying personnel are issued pocket cards to remind them of these codes).
    - 2) ERO personnel are to respond to this pager code by directly reporting to their assigned emergency response facility. No call back is required during normal working hours.

#### 4.2 ERO Activation (Call-Out) During Normal Working Hours (continued)

- B. The Dialogic system also initiates telephone calls to work phone numbers of ERO personnel.
  - 1) ERO personnel are to respond to the telephone call and report to their Emergency Response Facility (ERF).
  - 2) Once alerted to the fact that the ERFs are being activated, all ERO personnel are to report. Personnel are not to wait at their desks for a call.
- 4. If an incorrect scenario has been entered into the Dialogic computer, or the System is making nuisance, invalid or disruptive calls, it can be deactivated by the MCR using section 6 of PEP-310 Attachment 6.
- 5. If the Dialogic System fails during normal hours:
  - A. The Emerg. Communicator - Control Room initiates a group page directly through the paging company using PEP-310 Attachment 7.
    - 1) The pagers will display a numeric message indicating the MCR telephone number followed by a two number code (-X-1) where the "X" corresponds to the event classification level and the "1" signifies facility activation required (Pager carrying personnel are issued pocket cards to remind them of these codes).
    - 2) ERO personnel are to respond to 9999-X-1 code by directly reporting to their assigned emergency response facility, without calling into the Control Room.
  - B. Manual call-out of unfilled ERO positions will be performed by the Admin and Logistics Manager (ALM) in the EOF at the direction of each emergency facility manager.

#### 4.3 ERO Activation (Call-Out) During Off-Normal Hours

- NOTES:
- Off-normal hours are 1600 to 0730, Monday through Friday, weekends and CP&L holidays.
  - Control Room actions are the same for off-normal and normal working hours.
  - The Dialogic Computer programming directs calls to where personnel are expected to be (that is, priority is placed on calling home numbers during off-hours).
1. The Main Control Room (MCR), normally the Emergency Communicator - Control Room, makes a Public Address system announcement directing all ERO personnel to report to their Emergency Response Facilities.

#### 4.3 ERO Activation (Call-Out) During Off-Normal Hours (continued)

2. On-site ERO personnel are to respond to the PA announcement by directly reporting to their assigned emergency response facility.
3. The Emergency Communicator - Control Room activates the Dialogic system using PEP-310 Attachment 6.
  - A. The Dialogic system initiates the group call pagers of ERO members.
    - 1) The pagers will display a numeric message indicating the telephone number of Dialogic followed by a two number code (-X-1) where the "X" corresponds to the event classification level and the "1" signifies facility activation required (Pager carrying personnel are issued pocket cards to remind them of these codes).
    - 2) Personnel with pagers are to call the number listed and answer the questions from the Dialogic computer.
      - a. The first qualified responder for each position, who meets FFD requirements, will be instructed to fill their ERO position. These personnel are to report to their facility
      - b. Subsequent responders calling in to the Dialogic system who are qualified in Key Positions, and who meet FFD requirements, will be notified to report to their facility.
      - c. The practice of having all available personnel in key positions respond to the facilities is designed to enhance the initial emergency response actions and timeliness of facility activation.
  - B. The Dialogic system also initiates telephone calls to home and cell phone numbers to activate the ERO for all required and unfilled positions.
    - 1) Personnel receiving telephone calls are to answer the questions from the Dialogic system.
    - 2) Once identified as being FFD the Dialogic system will notify the person of the position that they are filling and to report to their facility.
    - 3) None of the personnel contacted, other than the JIC Administrative Coordinator, make any calls. They immediately go to their facility.
    - 4) The JIC Administrative Coordinator initiates calls to Progress Energy Building (PEB) and Raleigh Civic and Convention Center (RCCC) setup and security personnel.
    - 5) The Dialogic system continues to attempt to fill all positions to the required staffing depth.

4.3 ERO Activation (Call-Out) During Off-Normal Hours (continued)

4. If an incorrect scenario has been entered into the Dialogic computer; or the System is making nuisance, invalid or disruptive calls, the system can be deactivated using section 6 of PEP-310 Attachment 6.
5. If the Dialogic System fails during off-normal hours:
  - A. The Emerg. Communicator - Control Room initiates a group page directly through the paging company using PEP-310 Attachment 7.
    - 1) The pagers will display "9999" followed by a two number code (-X-1) where the "X" corresponds to the event classification level and the "1" signifies facility activation required (Pager carrying personnel are issued pocket cards to remind them of these codes).
    - 2) ERO personnel are to respond to 9999-X-1 code by directly reporting to the assigned emergency facility, without calling into the Control Room.
    - 3) All responders for each position who meets FFD requirements will be instructed to fill their ERO position.
  - B. Manual call-out of unfilled positions will be performed by the Admin and Logistics Manager (ALM) in the EOF at the direction of each emergency facility manager.
  - C. If both Dialogic and the group page methods have failed, the MCR must initiate a manual call-out of the ERO using PEP-310 Attachment 8, Part B.
    - 1) The first person contacted in each position who meets FFD requirements will be instructed to fill their ERO position.
    - 2) The on-shift E&RC and Maintenance personnel are directed to call in additional staff to fill the ERO pool (technician) positions.

#### 4.4 Off-Normal Hours Manual ERO Call Out

**NOTE:** During off-normal hours, without Dialogic operating, selected ERO personnel will be notified through a manual call out

1. On-shift personnel have the following responsibilities:
  - A. On-shift Operations personnel initiate a group page directly through the paging company as described in step 5 of section 4.3 above.
  - B. On-shift Maintenance personnel call in personnel as needed to augment on-shift staffing to meet the emergency requirements. As a minimum:
    - 3 Electrical/I&C Personnel
    - 2 Mechanical Personnel
  - C. On-shift E&RC personnel call in personnel as needed to augment on-shift staffing to meet the emergency requirements. As a minimum:
    - 8 OSC RP Pool Personnel
    - 4 EnMon Team Personnel
    - 1 Chemistry Technician
2. Manual call-out of unfilled ERO positions will be performed by the Admin and Logistics Manager (ALM) in the EOF at the direction of each emergency facility manager.

#### 5.0 **REFERENCES**

##### 5.1 Referenced Plant Emergency Procedures

1. PEP-110, "Emergency Classification and Protective Action Recommendations"
2. PEP-230, "Control Room Operations"
3. PEP-270, "Activation and Operation of the Emergency Operations Facility"
4. PEP-340, "Dose Assessment"
5. PEP-350, "Protective Actions"

##### 5.2 Other References

1. AP-617, "Reportability Determination and Notification"
2. SP-015, "Emergency Plan Support"
3. EPL-001, "Emergency Phone List"
4. NRC IN 98-08, "Information Likely to be Requested if an Emergency is Declared"

#### 6.0 **DIAGRAMS/ATTACHMENTS**

See Table of Contents



**Request for Off-site Support**

**1. Support Determination**

**A. FIRE<sup>1</sup>**

- Apex Fire Department (Inside or outside the Protected Area) ..... 911
- Holly Springs Fire Department (Inside Protected Area) ..... 911

**B. MEDICAL**

**NOTE:** Duke Life Flight will not transport a chemically or radiologically contaminated patient.

**NOTE:** Carolina Air Care or Duke Life Flight may be contacted directly for helicopter transport of an injured individual (Bypass 911 Dispatch).

- Apex Rescue Squad (Ambulance) ..... 911
- Carolina Air Care (Helicopter) ..... 1-800-247-6264
- Duke Life Flight (Helicopter) ..... 1-800-362-5433

**C. OTHER**

- Wake County Sheriff Department ..... 911
- Other (specify): \_\_\_\_\_

**2. Contacting the Support Organization**

**NOTE:** If the telephone cannot be used or 911 does not answer, direct Security to relay the message by radio.

**NOTE:** When contacting 911, use an outside extension (362-7992 or 362-7997 from the MCR) this will provide the dispatch center with information specifying HNP as the originating location.

**NOTE:** 911 calls are routed to the Wake County center. If Apex Rescue of Fire Department is requested, the call will be transferred to the Apex dispatcher. When the transfer occurs, repeat the message.

A. Contact the selected organization (from above) and say:  
**“This is the Harris Nuclear Plant, please dispatch the (as checked above)”**

B. Provide and document a brief description of the reason for the request:  
\_\_\_\_\_  
\_\_\_\_\_

<sup>1</sup> When requesting Fire Department assistance, also request Medical assistance (Apex rescue squad) to support the fire fighting efforts.

**Request for Off-site Support**

**2. Contacting the Support Organization (cont.)**

**NOTE:** Do not allow the following request to delay emergency response (If not immediately available, a call back with the information is acceptable).

C. Request information: # Vehicles: \_\_\_\_\_ # Personnel: \_\_\_\_\_ ETA: \_\_\_\_\_

D. Record the time and date of the call: \_\_\_\_\_ / \_\_\_\_\_

**3. Callback Requests:**

If a call back verification is received, record:

Name of caller: \_\_\_\_\_ Time of call back: \_\_\_\_\_

**4. Notify Security:**

Notify Security of the following information, if available:

- Type of response (fire, sheriff, ambulance).
- Where to meet the responder (Security Building gate, helicopter landing zone).
- Number of vehicles and personnel responding.
- Estimated time of arrival.

**5. Notify HP:**

Notify the Duty HP Supervisor (or Radiation Control Director [RCD] in the TSC if Emergency Response Facilities are activated) of the following information, if available:

- Type of response (fire, sheriff, ambulance).
- Where the responder will be going.
- Estimated time of arrival.

**6. Additional Notifications:**

A. If applicable, alert the receiving hospital to initiate their plan for handling contaminated patients (the destination can be obtained from the responding organization through the First Aid Team). \_\_\_\_\_ (Time)

B. Notify a member of the EP staff (or *EP Advisor* in the EOF if Emergency Response Facilities are activated) to provide a courtesy notification of the event to offsite Emergency Management \_\_\_\_\_ (Time)

C. Consult with the SSO to determine if notifications, other than the above, are performed, refer to AP-617 to determine whether an event notification under "Off-site Notification has or will be made" is required.

**7. Completion:**

Notification Completed: \_\_\_\_\_ (signature) \_\_\_\_\_ (date/time)

**UNUSUAL EVENT NOTIFICATIONS CHECKLIST**

<b>Notification of Site Personnel - Standby Status</b>	<b>Completed</b> <input type="checkbox"/>
<b><u>CAUTION</u></b>	
During a security event, it may be advisable <b><u>NOT</u></b> to sound an alarm or make a PA announcement.	
1. Make the following announcement over the public address system:	
A. "Attention all personnel; attention all personnel: An Unusual Event has been declared due to ( <i>brief description of initiating event</i> ). All members of the ERO standby for further instructions. All other personnel continue with your present duties."	
B. If there is a localized emergency (for example, high radiation, fire), announce its type and location and instruct personnel to stand clear of this area.	
2. Repeat the PA Message(s).	

<b>Notification of the ERO - Standby Status</b>	<b>Completed</b> <input type="checkbox"/>
1. Notify or direct notification of the ERO per Section 3.3 using Attachments 6-8 as appropriate.	

<b>Notification of State and Local Agencies</b>	<b>Completed</b> <input type="checkbox"/>
1. Notify or direct notification of the State and local authorities within 15 minutes of the event classification by communicating an initial Emergency Notification Form (Attachment 9) per Section 3.5 using Attachment 11 or 12 as appropriate.	

<b>Notification of the NRC</b>	<b>Completed</b> <input type="checkbox"/>
1. As soon as possible but within 60 minutes of the event classification, inform the NRC using the ETS or a commercial telephone per Section 3.6.	

Notification Completed: \_\_\_\_\_ (signature) \_\_\_\_\_ (date/time)

**ALERT NOTIFICATIONS CHECKLIST**

<b>Notification of Site Personnel - Dismissal of Personnel</b>	<b>Completed <input type="checkbox"/></b>
<b><u>CAUTION</u></b>	
During a security event, it may be advisable <b><u>NOT</u></b> to sound an alarm or make a PA announcement.	
<ol style="list-style-type: none"> <li>1. Have the Control Room sound the Site Evacuation Alarm for 15 seconds, then the TSC will make the following announcement over the public address system:             <ol style="list-style-type: none"> <li>A. "Attention all personnel; attention all personnel: An Alert has been declared due to (<i>brief description of initiating event</i>). All members of the ERO report to your designated emergency response facility. All other HNP personnel exit the Protected Area and report to the Admin Building 2<sup>nd</sup> floor conference room area, and await instructions. All visitors, all nonessential contractor personnel, all declared pregnant females and all handicapped personnel please leave the site at this time."</li> <li>B. If there is a localized emergency (for example, high radiation, fire), announce its type and location and instruct personnel to stand clear of this area.</li> <li>C. If there is a potential for an airborne radiological release, consider announcing that there will be no eating, drinking, or smoking until further notice.</li> </ol> </li> <li>2. Repeat the PA Message(s).</li> </ol>	

<b>Notification of State and Local Agencies</b>	<b>Completed <input type="checkbox"/></b>
<ol style="list-style-type: none"> <li>1. Notify or direct notification of the State and local authorities within 15 minutes of the event classification by communicating an initial Emergency Notification Form (Attachment 9) per Section 3.5 using Attachment 11 or 12 as appropriate.</li> </ol>	

<b>Notification of the NRC</b>	<b>Completed <input type="checkbox"/></b>
<ol style="list-style-type: none"> <li>1. As soon as possible but within 60 minutes of the event classification, inform the NRC using the ETS or a commercial telephone per Section 3.6.</li> <li>2. Activation of the NRC ERDS data link is required within 60 minutes of an Alert or higher event declaration.</li> </ol>	

<b>Action Verification</b>	<b>Completed <input type="checkbox"/></b>
<ol style="list-style-type: none"> <li>1. Have security verify public access areas have been evacuated.</li> </ol>	

Notification Completed: \_\_\_\_\_  
(signature) (date/time)

**SITE AREA EMERGENCY NOTIFICATIONS CHECKLIST****Notification of Site Personnel - Protected Area Evacuation**  **Completed****CAUTION**

During a security event, it may be advisable **NOT** to sound an alarm or make a PA announcement.

Consider radiological conditions when preparing to evacuate personnel. If high dose rates will be encountered it may be better to shelter non-essential personnel onsite.

1. Have the Control Room sound the Site Evacuation Alarm for 15 seconds, then the TSC will make the following announcement over the public address system:

A. If entering from no event or an Unusual Event:

"Attention all personnel; attention all personnel: A Site Area Emergency has been declared due to (*brief description of event*). All ERO members report to your designated emergency response facility. All other personnel exit the Protected Area and leave the site. Security, initiate Accountability."

If upgrading from an Alert:

"Attention all personnel, Attention all personnel: A Site Area Emergency has been declared due to (*brief description of event*). All personnel who are not part of the ERO exit the Protected Area and leave the site. Security, initiate Accountability."

B. If there is a localized emergency (for example, high radiation, fire), announce its type and location and instruct personnel to stand clear of this area.

C. If there is a potential for an airborne radiological release, consider announcing that there will be no eating, drinking, or smoking until further notice.

2. Repeat the alarm and PA Message(s).

**Notification of State and Local Agencies**  **Completed**

1. Notify or direct notification of the State and local authorities within 15 minutes of the event classification by communicating an initial Emergency Notification Form (Attachment 9) per Section 3.5 using Attachment 11 or 12 as appropriate.

**Notification of the NRC**  **Completed**

- As soon as possible but within 60 minutes of the event classification, inform the NRC using the ETS or a commercial telephone per Section 3.6.
- Activation of the NRC ERDS data link is required within 60 minutes of an Alert or higher event declaration.

**Verify Accountability**  **Completed**

- Security should report within 30 minutes of declaration of a Site Area Emergency that accountability is complete and provide the names of missing persons, if any. Log the time that Accountability was completed.
- If not previously performed, direct Security to verify public access areas have been evacuated.

Notification Completed: \_\_\_\_\_ (signature) \_\_\_\_\_ (date/time)

**GENERAL EMERGENCY NOTIFICATIONS CHECKLIST**

**Notification of Site Personnel - Protected Area Evacuation**  **Completed**

**CAUTION**

During a security event, it may be advisable **NOT** to sound an alarm or make a PA announcement.

Consider radiological conditions when preparing to evacuate personnel. If high dose rates will be encountered it may be better to shelter non-essential personnel onsite.

1. Have the Control Room sound the Site Evacuation Alarm for 15 seconds, then the TSC will make the following announcement over the public address system:
  - A. If entering into a GE from an Alert or lower:  
"Attention all personnel; attention all personnel: A General Emergency has been declared due to (*brief description of event*). All members of the ERO report to your designated emergency response facility. All other personnel exit the Protected Area and leave the site. Security, initiate Accountability. There will be no eating, drinking, or smoking until further notice."
  
  - If upgrading from an Site Area Emergency:  
"Attention all personnel, Attention all personnel: A General Emergency has been declared due to (*brief description of event*). There will be no eating, drinking, or smoking until further notice."
  - B. If there is a localized emergency (for example, high radiation, fire), announce its type and location and instruct personnel to stand clear of this area.
2. Repeat the alarm and PA Message(s).

**Notification of State and Local Agencies**  **Completed**

NOTE: Protective Action Recommendations issued in accordance with PEP-110 are mandatory for a General Emergency Classification.

1. Notify or direct notification of the State and local authorities within 15 minutes of the event classification by communicating an initial Emergency Notification Form (Attachment 9) per Section 3.5 using Attachment 11 or 12 as appropriate.

**Notification of the NRC**  **Completed**

1. As soon as possible but within 60 minutes of the event classification, inform the NRC using the ETS or a commercial telephone per Section 3.6.
2. Activation of the NRC ERDS data link is required within 60 minutes of an Alert or higher event declaration.

**Verify Accountability**  **Completed**

1. If not previously done, Security should report within 30 minutes of declaration of the a General Emergency that accountability is complete and provide the names of missing persons, if any. Log the time that Accountability was completed.
2. Verify Security has performed the actions for Exclusion Area Evacuation per SP-015.

Notifications Completed: \_\_\_\_\_ (signature) \_\_\_\_\_ (date/time)

**Emergency Response Organization Activation - Dialogic System**

NOTE: If the System is not operable, proceed directly to PEP-310, Attachment 7.

**1. Scenario Determination:**

Select the appropriate scenario number from the options below:

**Off Normal Hours-1600 to 0730, Monday Thru Friday, Weekends and Holidays**

- UNUSUAL EVENT - Pre-staffing Facilities .....21
- ALERT.....22
- SITE AREA EMERGENCY .....23
- GENERAL EMERGENCY.....24

**Normal Working Hours, 0730 to 1600, Monday Through Friday**

- UNUSUAL EVENT - Pre-staffing Facilities .....31
- ALERT.....32
- SITE AREA EMERGENCY .....33
- GENERAL EMERGENCY.....34

**2. Connecting to the System:**

NOTE: The number of step "B" below must be entered as soon as the system starts saying "Hello". If you wait too long the system will respond, "Hello, there is no activity at this time, goodbye" and hang up.

If this happens, hang up and start again at step "A".

<b><u>Operator Action:</u></b>	<b><u>Proper System Response:</u></b>
A. <b>Dial 2452</b> on a plant extension or dial 362-2452 if using a Southern Bell line.	"Hello."
B. <b>Immediately enter 4357</b> followed by the "#" key.	"Enter the scenario number you wish to work with."
C. <b>Enter the appropriate scenario number</b> (checked above) followed by the "#" key.	"You entered XX. Is that correct? Please press 9 for yes, 6 for no."
D. If correct, <b>enter 9. - or -</b>  If incorrect, <ul style="list-style-type: none"> <li>• enter 6</li> <li>• hang up, and</li> <li>• repeat the above steps</li> </ul>	If "9" was entered:  "The selected scenario has been completed. Do you want to queue it? Please press 9 for yes, 6 for no."
E. <b>Enter 9</b>	"You will queue scenario XX as an Emergency. Are you sure this is what you want to do? Please press 9 for yes, 6 for no."

**Emergency Response Organization Activation - Dialogic System**

<b>2. Connecting to the System (continued):</b>	
<b>Operator Action:</b>	<b>Proper System Response:</b>
F. <b>Enter 9</b> , and Disregard the message (this a system default message not associated with the ERO activation process at HNP).	<i>"Press 1 to stop scenario monitor or press 2 to speak of the status. The selected scenario is active, goodbye."</i>
G. <b>Hang up</b> and prepare for system activation verification in the section below.	The System will soon dial telephones in the MCR (362-7992 or 362-7997).

<b>3. System Activation Verification:</b>	
<b>Operator Action:</b>	<b>Proper System Response:</b>
A. When one of the Direct Bell lines rings, <b>answer the telephone</b> and say	<i>Please enter a 2 followed by your social security number.</i>
B. <b>Enter 2-123-45-6789</b>	<i>You entered x-xxx-xx-xxxx is that correct? Please press 9 for yes, 6 for no."</i>
C. <b>If correct, enter 9</b> , otherwise: enter 6 and follow the instructions to correct the SSN.	<i>Provide emergency classification and ask if you a fit for duty.</i>
D. <b>Enter 9</b>	<i>You will be filling the position of Main Control Room. Please enter your ETA in minutes.</i>
E. <b>Enter 00</b> (any number will work)	<i>Thank you, goodbye</i>
F. If the computer functioned as expected, <b>notify the SEC-CR</b> that Dialogic is calling in the ERO.  If the computer fails to communicate as listed, perform ERO activation using the pagers per PEP-310, Attachment 7.	

<b>4. Completion:</b>
Inform SEC-CR of the results of the system activation. Notification Completed: _____ (signature) (date/time)

**CAUTION:**



**Emergency Response Organization Activation - Dialogic System**

The section below is performed **only if** the Dialogic system is malfunctioning.

<b>5. Dialogic System Deactivation:</b>	
If an incorrect scenario has been entered or the System is making nuisance, invalid, or disruptive calls, the Dialogic System can be deactivated using the following steps.	
<b><u>Operator Action:</u></b>	<b><u>Proper System Response:</u></b>
<b>NOTE:</b> Following the next step you must rapidly enter the first number of the password as the System is saying "Hello". If you wait too long the system will respond, "Hello, there is no activity at this time, goodbye" and hang up.	
A. Dial 2452 on a plant extension (or dial 362-2452 if using a Southern Bell line)	"Hello"
B. Immediately enter 4357 followed by the "#" key.	"Enter the scenario number you wish to work with."
C. Enter the appropriate scenario number (from Section 1) followed by the "#" key.	"You entered XX. Is that correct? Please press 9 for yes, 6 for no."
D. Enter a '9'.	"The selected scenario is active. Press 1 to complete (stop) it, a 2 to suspend (temporarily stop) it, or press 3 to exit."
E. Enter a '1'	"You will complete the scenario XX, Are you sure this is what you want to do? Please press a 9 for yes, 6 for no."
F. Enter a '9'.	"The selected scenario has been completed, goodbye."
G. Hang up the phone (The system has been deactivated)	

**Emergency Response Organization Activation - Pager System**

**NOTE:** When pre-staffing the emergency response facilities is NOT desired, perform Unusual Event ERO notifications manually per PEP-310, Attachment 8.

**1. Pager Code (Numeric Message) Determination:**

Select the appropriate classification level from the options below: Pager Codes

Unusual Event (pre-staffing of the facilities) ..... 9999\*1\*1 ##

Alert ..... 9999\*2\*1 ##

Site Area Emergency ..... 9999\*3\*1 ##

General Emergency ..... 9999\*4\*1 ##

Classification Level      Code for "Response Required"      Completes call

**2. Activating the Group Page:**

<b>Operator Action:</b>	<b>Proper System Response:</b>
A. From an outside line, dial 800-538-5388.	"Please enter the pager ID number."
B. Enter 123008.	"Please enter your numeric message after the tone."
C. After the three (3) beeps, enter the pager code determined in "1" above.	
D. Hang up.	
E. Record the time: _____	

**Notification Call-Backs:**

Call backs are not required, but if calls are received, notify individuals to report directly to their emergency facilities.

**4. Completion:**

Notification Completed: \_\_\_\_\_ (signature) \_\_\_\_\_ (date/time)

**Manual Emergency Response Organization Activation /UE Notification**

**Part A - Unusual Event Notification of Selected Personnel**

**NOTES:** EPL-001, Emergency Phone List, contains home, work, and pager numbers for personnel filling ERO Positions.

The SEC may elect to notify personnel in addition to those listed below.

1. Contact the on-duty ERO member (refer to the Intranet EP Web site or EPL-001) in the following positions, and notify them of the event. If the on-duty person can not be contacted, contact any of the other ERO members in that position who are Fit For Duty (FFD).		
<b><u>ERO Position/Facility</u></b>	<b><u>Person Contacted</u></b>	<b><u>Time</u></b>
Site Emergency Coordinator-TSC	_____	_____
Emergency Response Manager / EOF	_____	_____
Emergency Preparedness Advisor / EOF	_____	_____
Company Spokesperson / JIC	_____	_____
2. Contact and inform the NRC Resident Inspector of the event.		
	_____	_____
3. Inform the SEC-CR of the results of the notification.		_____ (Initials)
4. Sign for completion of ERO Notification of an Unusual Event		
Notification Completed: _____		
	(signature)	(date/time)

**Manual Emergency Response Organization Activation /UE Notification**

**Part B - Manual Call-Out for Events Requiring Facility Activation**

**CAUTIONS**

- Emergency notification messages shall be given only to the specified individuals and not to their spouse, children, baby-sitter, and so forth.
- If you encounter an answering machine, leave a message to call the plant with a phone number, but leave no emergency information.

<p>1. Contact the on-duty ERO member in the listed in the table on the next page. Refer to Intranet EP Web site and the Emergency Phone List (EPL-001), Attachment 1, to obtain contact numbers for personnel in each of the ERO positions.</p> <p>a. If the on-duty person can not be contacted, contact any of the other ERO members in that position.</p> <p>b. Ask each individual if they are Fit For Duty (FFD).</p> <p>a) 1) If FFD, advise them of the event declaration and that this is a manual call out of the ERO.</p> <p>2) If the individual is <u>not</u> fit for duty, tell them a response is not required at this time, but to stay near their phone.</p>	
<p>2. <b>If off-normal hours</b>, contact on-shift personnel and provide them the following instructions:</p> <p>a. Maintenance; call in, as a minimum:</p> <ul style="list-style-type: none"><li>• 3 additional Electrical/I&amp;C techs</li><li>• 2 additional Mechanics</li></ul> <p>b. E&amp;RC; call in, as a minimum:</p> <ul style="list-style-type: none"><li>• 8 additional OSC RC Pool personnel</li><li>• 4 additional EnMon Team personnel</li><li>• 1 additional Chemistry Technician</li></ul>	<p>_____</p> <p>_____</p>
<p>3. Contact and inform the NRC Resident Inspector of the event.</p>	<p>_____</p>
<p>4. Inform the SEC-CR of the results of the manual call-out</p>	<p>_____</p>
<p>5. Manual Call Out of ERO Completed: _____</p>	
<p>(signature)</p>	<p>(date/time)</p>

**Manual Emergency Response Organization Activation /UE Notification**

**Part B - Manual Call-Out for Events Requiring Facility Activation, continued**

<b><u>MCR ERO Position</u></b>	<b><u>Person Contacted / ETA (min)</u></b>	<b><u>Time</u></b>
Plant Operations Director (in MCR)	_____	_____
<b><u>OSC ERO Positions</u></b>		
Emergency Repair Director	_____	_____
Damage Control Coordinator	_____	_____
Radiological Control Coordinator	_____	_____
Chemistry Coordinator	_____	_____
<b><u>TSC ERO Positions</u></b>		
Site Emergency Coordinator-TSC	_____	_____
Technical Analysis Director	_____	_____
TSC AAT - Core Performance	_____	_____
TSC AAT - Electrical	_____	_____
TSC AAT - Mechanical	_____	_____
Radiological Control Director	_____	_____
Communications Director	_____	_____
Security Director	_____	_____
<b><u>EOF ERO Positions</u></b>		
Emergency Response Manager	_____	_____
Emerg Preparedness Advisor	_____	_____
Communications Manager	_____	_____
Emerg Communicator-State/County	_____	_____
Radiological Control Manager	_____	_____
Dose Projection Team Leader	_____	_____
Technical Analysis Manager	_____	_____
News Coordinator	_____	_____
Administrative & Logistics Manager	_____	_____
<b><u>JIC ERO Positions</u></b>		
Company Spokesperson	_____	_____
JIC Director	_____	_____



**STATE/COUNTY NOTIFICATION FORM INSTRUCTIONS**

**To Use ERFIS/RTIN to Perform Notifications:**

**NOTE:** If limited access to ERFIS terminals, it may be helpful to obtain meteorological data prior to bringing up the notification form.

1. Select or enter the Turn-on-Code(TOC) **EP** "EMERGENCY PREPAREDNESS FUNCTION MENU" from the ERFIS Main Menu.
2. Select or enter TOC **LOGIN** "LOG INTO NETWORK DATABASE" to sign on to the system.
3. Select your ERO position from the Position Menu, type in your name, and select login.
4. Select or enter TOC **EVENT** "DECLARE EVENT"(if an event has not previously been declared on RTIN) and select O.K.
5. Select or enter TOC **EFORM** "EMERGENCY NOTIFICATION FORM" from the menu.

**Form Completion Guidelines:**

**Line  
NO.**

**INSTRUCTION**

All Marking of a block on the notification form should be done clearly, such as by diagonally shading ½ of the block (  ) when filling out manually (or by checking the block when using RTIN).

1. Mark the form as '**A**' **DRILL** or '**B**' **ACTUAL EMERGENCY**.

Mark **INITIAL** for

- The first message for the declared emergency classification level (either upgrade or downgrade).
- A change in Protective Action Recommendations.

Mark **FOLLOW-UP** if this is not the first message for the declared emergency classification level.

Assign a numerical message number.

- The first notification is message number 1.
- Each subsequent message is numbered sequentially.
- The message number does not begin again at 1 for any reason during the course of the declared event.
- Numbering of forms will be done automatically in ERFIS if you select "ADD".

**STATE/COUNTY NOTIFICATION FORM INSTRUCTIONS**

**Form Completion Guidelines (continued):**

**Line  
NO.**

**INSTRUCTION**

2. Record the name of the person who will be reading the message to the State & County personnel in the **REPORTED BY** space.
  
3. **TRANSMITTAL TIME/DATE** is not filled until message transmittal (If using ERFIS, this will be done automatically).  
  
In the **CONFIRMATION PHONE NO.** blank, record a direct Bell Line phone number that off-site agencies could use for verification that this message is authentic.
  
4. **AUTHENTICATION** is not filled out until the message is being communicated.
  
5. Mark the form with the applicable **EMERGENCY CLASSIFICATION LEVEL**  
  
If the event has been upgraded or downgraded prior to completion of the off-site notification form, do not transmit old information. Complete a new notification form or modify the existing form to reflect current conditions.  
  
However, if the event has been terminated prior to completion of the off-site notification form, mark the highest emergency classification level that existed and refer to item 6 below.  
  
For a "termination" message, leave Item 5 blank.  
  
For Follow-up messages, indicate the same classification as the previous message.
  
6. Mark the form with '**A**' **EMERGENCY DECLARATION AT** unless this is a termination message.  
  
Mark the form with '**B**' **TERMINATION AT** for a termination message.  
  
Indicate the time and date that the emergency classification was declared or terminated.  
  
If the event has been terminated prior to completion of the off-site notification form, mark both '**A**' and '**B**' and indicate both the start and stop time of the event.



**STATE/COUNTY NOTIFICATION FORM INSTRUCTIONS**

**Form Completion Guidelines (continued):**

**Line  
NO.**

**INSTRUCTION**

7. Record the 'EAL Reference Number \_\_\_\_\_' and a short narrative of the event, using layman's terms, in the **EMERGENCY DESCRIPTION REMARKS**. Any of the following items should also be included:
- Estimate of any surface radioactive contamination in plant, on site or off site.
  - HNP emergency response actions underway (for example, evacuation of site personnel).
  - Any requests for assistance (for example, Rescue, Fire or Sheriff).

If the event is being terminated describe the bases for the termination.

If the event has been downgraded prior to completion of the previous off-site notification form, then record:

- The start and stop times that the higher classification level existed.
- The EAL for the higher classification level.
- The mitigating conditions that caused the classification level to be downgraded.

If the event has been terminated prior to completion of the previous off-site notification form, then record reason for the event and the reason for the termination.

8. Mark **PLANT CONDITION** as appropriate.

Termination messages do not require Item 8 to be filled in.

- **'A' IMPROVING**
- **'B' STABLE**
- **'C' DEGRADING**

9. Mark **REACTOR STATUS** as follows:

Termination messages do not require Item 9 to be filled in.

- Mark **'A' SHUTDOWN** if the reactor is shutdown and indicate the time and date, if applicable.

Enter "N/A" for the time and date of shutdown if the reactor is at power.

- Mark **'B' POWER** if the reactor is at power and record the current reactor power level.

Enter "N/A" for the power level if the reactor is shutdown.

**STATE/COUNTY NOTIFICATION FORM INSTRUCTIONS**

**Form Completion Guidelines (continued):**

**Line  
NO.    **INSTRUCTION****

10.    Mark **EMERGENCY RELEASE(S)** as appropriate:

**NOTE:** Emergency Release is defined as ANY radioactive release which is a result of, or associated with, the event.

- Mark **'A' NONE** if no Emergency Release is occurring or has occurred.
- Mark **'B' POTENTIAL** if no release is occurring but the potential for a release exists (for example, an RCS leak into containment with the Containment fission product barrier in a "Jeopardy" condition, or based on plant data a trend predicts the final barrier will be breached and there are no systems capable of mitigating the trend).
- Mark **'C' IS OCCURRING** if an Emergency Release is occurring (for example, any SG tube leak, RCS leak outside containment, or fuel handling accident that results in a declared emergency is to be reported as an "Emergency Release.") A detectable Radiation Monitor reading increase is not required for a release to exist.
- Mark **'D' HAS OCCURRED** for Emergency Releases which have occurred but are now terminated.

11.    Mark **TYPE OF RELEASES** as **'B' GROUND LEVEL** for all Emergency Releases.

Item 11 may be skipped if either 'none' or 'potential' were selected for emergency release.

For initial notifications, the remaining information for Item 11 may not be available. If this is the case, leave it blank.

- Mark **'A' AIRBORNE** for an airborne release.

Indicate the time and date for the release start and stop.

If the release is in progress at the time of this notification, enter "N/A" for stop time.

- Mark **'B' LIQUID** for an liquid release.

Indicate the time and date for the release start and stop.

If the release is in progress at the time of this notification, enter "N/A" for stop time.

STATE/COUNTY NOTIFICATION FORM INSTRUCTIONS

Form Completion Guidelines (continued):

Line  
NO.

INSTRUCTION

12. Mark **RELEASE MAGNITUDE** as appropriate:

This information may not be available for initial notifications.

Item 12 may be skipped if either 'none' or 'potential' were selected for emergency release.

- Mark '**A**' **CURIES/SEC**
- Mark '**B**' **CURIES**

Mark **NORMAL OPER. LIMITS** based on whether the release is below or above Technical Specification limits.

- Mark '**C**' **BELOW**
- Mark '**D**' **ABOVE**

Mark '**A**' **NOBLE GASES** and record magnitude in Curies or Curies/sec, if applicable.

Mark '**B**' **IODINES** and record magnitude in Curies or Curies/sec, if applicable.

Mark '**C**' **PARTICULATES** and record magnitude in Curies or Curies/sec, if applicable.

Mark '**D**' **OTHER** as N/A, not applicable to the Harris Plant.

13. Mark **ESTIMATE OF PROJECTED OFF-SITE DOSE** as appropriate:

This information may not be available for initial notifications.

Item 13 may be skipped if no emergency release has occurred.

- Mark '**A**' **NEW** if this is the first dose projection or if the release/release rate has changed significantly (approximately 15%).
- Mark '**B**' **UNCHANGED** if no new projection is available.

Enter **PROJECTION TIME** with the time the dose projection data was obtained.

Enter **ESTIMATED DURATION** with the time, in hours, of a potential or on going release.

Enter the **TEDE** and **THYROID CDE** doses in mrem. DO NOT change the units on the form.

**STATE/COUNTY NOTIFICATION FORM INSTRUCTIONS**

**Form Completion Guidelines (continued):**

**Line  
NO.**

**INSTRUCTION**

14. Enter **METEOROLOGICAL DATA** as appropriate:  
This information may not be available for initial notifications.
- Mark '**A**' **WIND DIRECTION** and enter the direction in degrees from.
  - Mark '**B**' **SPEED** and enter the wind speed in MPH.
  - Mark '**C**' **STABILITY CLASS** and enter the appropriate stability as 'A' - 'G'.
  - Mark '**D**' **PRECIPITATION** and enter 'RAIN' or 'SNOW' or 'SLEET' if any precipitation has occurred within the last 15 minutes.
15. Mark **RECOMMENDED PROTECTIVE ACTIONS** as appropriate per PEP-110.
- Mark '**A**' **NO RECOMMENDED PROTECTIVE ACTIONS** Unless a General Emergency has been declared.
  - Mark '**B**' **EVACUATE** if a General Emergency has been declared and enter each of the subzones for which this recommendation applies (for example, A,B,C,D, and so forth).
  - For '**C**' **SHELTER IN-PLACE** if a General Emergency has been declared, enter the remaining subzones which were not entered for evacuate.
  - '**D**' **OTHER** is not applicable to HNP. Areas beyond 10 miles will be considered only on an ad-hoc basis and will be directly communicated with the offsite agencies through the ERM.
16. **APPROVED BY** - Obtain approval from the Site Emergency Coordinator (SEC) or Emergency Response Manager (ERM) prior to transmittal of the notification to the state and counties.
- If using ERFIS,
    - Electronically enter name, title, time and date of approval.
    - The SEC or ERM shall sign the form near the printed name (this is not required prior to transmission of the notification).
  - If manually preparing the form, obtain signature, title, time and date.

**NOTE:** Transmittal Time/Date and authentication in Items 3 and 4 will be filled in following approval of the form. Any other changes made to the information after approval must be initialed by the SEC or ERM as applicable.

**State/County Notification Checklist-ERFIS Method**

**NOTE:** If the Selective Signaling phone is inoperable, use the normal telephone system. If both phone systems fail use the UHF State frequency radio in the TSC or EOF (State and Wake WP do not have a radio).

**1. Contacting the Offsite Authorities:**

A. Obtain the **verification code words** from the following storage locations:

1. Emergency Communicator's position notebook in the Main Control Room (MCR).
2. Key locker at the Auxiliary Control Panel (ACP).
3. EOF supply cabinet.

**NOTE:** If you do not hear a tone, a conference network may already be established.

B. Using the Selective Signaling System, **dial '10'** and listen for a tone.

C. At the tone, perform one of the following:

- Dial **22** to contact the **Warning Points** (normally used by the MCR).
- Dial **33** to contact the State and County **EOCs** (commonly used by the EOF).
- Dial **44** to contact **all Warning Points and EOCs** (during EOC activation, as requested).

D. Wait for the initial response and say: **"This is the Harris Nuclear Plant, stand by."**

E. After the responses cease, say: **"This is Harris Nuclear Plant, answer to roll call,"**

- "State"** (Pause for response).
- "Chatham County"** (Pause for response).
- "Harnett County"** (Pause for response).
- "Lee County"** (Pause for response).
- "Wake County"** (Pause for response).

F. If one or more organizations did not respond to roll call:

1. Say **"Standby while I re-dial the missing location(s)"**
2. Re-enter the appropriate 2 digit code from step "C" above.
3. Repeat the roll call for the missing locations.

G. If a location(s) still does not respond, request an assistant to contact the missing organization(s) by phone (see EPL-001) and read the message to them.

H. Continue with the locations that are on the line.

**2. For Initial Notifications (15 minute notification requirements):**

A. Say **"This is the Harris Nuclear Plant, Emergency Notification number \_\_\_\_\_ was sent via fax. A \_\_\_\_\_ has been:**

(state the classification level)

- **declared"; - or -**
- **remains in effect"**

B. Say **"Refer to line 15 of your notification form"** and then report the PARs as listed.

C. Record the current time and date (24 hour clock) \_\_\_\_\_ / \_\_\_\_\_.

(Continued on next page)

**State/County Notification Checklist-ERFIS Method**

<b>3. Communicate contents of notification form:</b>			
A. If <u>not</u> done in step 2, say <i>"This is the Harris Nuclear Plant. A _____ continues to be in effect".</i> (state the classification level)			
B. <i>"Please confirm that a legible copy of the notification form has been received."</i>			
C. If any one responds that they are having difficulty reading the faxed notification form, read it over the line.			
D. Print and provide your name on line 2 of the form for "Reported By:"			
E. Say <i>"State; please supply an authentication number"</i>			
F. Respond with the corresponding word from the list of verification code words.			
G. Record the authentication information on the form (line 4).			
H. Say <i>"are there any questions?"</i>			
I. If necessary, correct any errors or clarify misunderstood information.			
<b>4. Completion:</b>			
A. Say <i>"respond to roll call with your name."</i> , call roll and record the information below. Identify the applicable location for each agency (WP is not used for notification/communication after EOC is activated).			
<b><u>Agency:</u></b>	<b><u>WP:</u></b>	<b><u>EOC:</u></b>	<b><u>Name of Person Contacted:</u></b>
<i>State</i>			
<i>Chatham County</i>			
<i>Harnett County</i>			
<i>Lee County</i>			
<i>Wake County.</i>			
B. When completed, say <i>"This is the end of the emergency notification. You may leave the network. This is the Harris Nuclear Plant, out."</i>			
C. If performed from the MCR, fax the Emergency Notification Form to the TSC and the EOF.			
D. If telecommunications problems were encountered, notify the Help Desk (refer to EPL-001)			
E. State/County Notification Completed: _____ (signature) (date/time)			

### State/County Notification Checklist - Manual Method

**NOTE:** If the Selective Signaling phone is inoperable, use the normal telephone system or the UHF State frequency radio in the TSC or EOF.

#### **1. Contacting the Offsite Authorities:**

- A. Obtain the **verification code words** from the following storage locations:
1. Emergency Communicator's position notebook in the Main Control Room (MCR).
  2. Key locker at the Auxiliary Control Panel (ACP).
  3. EOF supply cabinet.
- NOTE:** If you do not hear a tone, a conference network may already be established.
- B. Using the Selective Signaling System, dial '10' and listen for a tone.
- C. At the tone, perform one of the following:
- Dial **22** to contact the **Warning Points** (normally used by the MCR).
  - Dial **33** to contact the State and County **EOCs** (commonly used by the EOF).
  - Dial **44** to contact **all Warning Points and EOCs** (during EOC activation, as requested).
- D. Wait for the initial response and say: **"This is the Harris Nuclear Plant, stand by."**
- E. After the responses cease, say: **"This is Harris Nuclear Plant, answer to roll call,"**
- "State"** (Pause for response).
  - "Chatham County"** (Pause for response).
  - "Harnett County"** (Pause for response).
  - "Lee County"** (Pause for response).
  - "Wake County"** (Pause for response).
- F. If one or more organizations did not respond to roll call:
1. Say **"Standby while I re-dial the missing location(s)"**
  2. Re-enter the appropriate 2 digit code from step "C" above.
  3. Repeat the roll call for the missing locations.
- G. If a location(s) still does not respond, request an assistant to contact the missing organization(s) by phone (see EPL-001) and read the message to them.
- H. Continue with the locations that are on the line.

#### **2. For Initial Notifications (15 minute notification requirements):**

- A. Say **"This is the Harris Nuclear Plant, Please record the following information on an Emergency Notification Form."** (pause to allow the locations to retrieve a form).
- B. Say **"Line 1, (Read each checked item) , Emergency Notification number \_\_\_\_\_"**
- C. Say **"Line 5, a \_\_\_\_\_ has been:**
- (state the classification level)
- **declared"; - or -**
  - **remains in effect."**
- D. Say **"Line 15"** and then report the PARs as listed.
- E. Record the current time and date (24 hour clock) \_\_\_\_\_ / \_\_\_\_\_.

(Continued on next page)

**State/County Notification Checklist - Manual Method**

**3. Communicate contents of notification form:**

- A. If not done in step 2, say  
**"This is the Harris Nuclear Plant. A \_\_\_\_\_ continues to be in effect".**  
(state the classification level)
- B. **"Please record the following information on an Emergency Notification Form."**  
(pause to allow the locations to retrieve a form).
- C. Read the form to the responding locations as follows:
  1. Identify each line by number before communicating the content.
  2. Spell difficult words.
  3. Print and provide your name on line 2 of the form for "Reported By:"
  4. When you get to line 4, say **"State; please supply an authentication number"**
  5. Respond with the corresponding word from the list of verification code words.
  6. Record the authentication information on the form (line 4).
  7. Complete reading the remainder of the form.
- D. Say **"are there any questions?"**
- E. If necessary, correct any errors or clarify misunderstood information.
- F. Say **"Copies of this notification will be sent to you via Fax."**

**4. Completion:**

- A. Say **"respond to roll call with your name."**, call roll and record the information below. Identify the applicable location for each agency ( WP is not used for notification/communication after EOC is activated).

<b>Agency:</b>	<b>WP:</b>	<b>EOC:</b>	<b>Name of Person Contacted:</b>
<b>State</b>			
<b>Chatham County</b>			
<b>Harnett County</b>			
<b>Lee County</b>			
<b>Wake County.</b>			

- B. When completed, say **"This is the end of the emergency notification. You may leave the network. This is the Harris Nuclear Plant, out."**
- C. Fax a copy of the Emergency Notification Form to the applicable WPs and/or EOCs.
- D. If performed from the MCR, fax the Emergency Notification Form to the TSC and the EOF.
- E. If telecommunications problems were encountered, notify the Help Desk (refer to EPL-001)

F. Manual State/County Notification Completed: \_\_\_\_\_ (signature) \_\_\_\_\_ (date/time)



**INPO/ANI NOTIFICATION FORM**

**Institute of Nuclear Power Operations (INPO)**

**American Nuclear Insurers (ANI)**

1. "This is \_\_\_\_\_ from Carolina Power & Light at the Harris Nuclear Plant,  
(name of caller)

telephone number 919-362-\_\_\_\_\_, concerning Unit One."  
(call back number)

2.  This is a drill.  This is an actual emergency.

3. Emergency Classification:

Alert       Site Area Emergency       General Emergency

Basis: \_\_\_\_\_  
\_\_\_\_\_

4. Current Plant Conditions/Additional Information \_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

5. Notification Authorized: \_\_\_\_\_  
(ERM signature) (date/time)

6. Name of person notified: (INPO) \_\_\_\_\_  
(ANI) \_\_\_\_\_

7. Notification Completed: \_\_\_\_\_  
(signature) (date/time)

**PLANT PARAMETER INFORMATION FORM**

Date: \_\_\_\_\_ Time: \_\_\_\_\_

FUEL STATUS:	
1. GFFD	CPM
2. RCS Activity Sample	(time) μci/ml
3. RCS I-131 DE Sample	(time) μci/ml
4. Core Exit Temp	°F

REACTOR COOLANT SYSTEM (RCS) STATUS	
1. Reactor Power (PR)	%
2. Reactor Power (IR)	(SUR) ___ DPM Amps
3. Reactor Power (SR)	(SUR) ___ DPM CPS
4. RCS Pressure	PSIG
5. PRZ Level	%
6. Average Temperature	°F
7. RCS Loop A	T <sub>hot</sub> _____ °F T <sub>cold</sub> _____ °F ΔT _____ °F
8. RCS Loop B	T <sub>hot</sub> _____ °F T <sub>cold</sub> _____ °F ΔT _____ °F
9. RCS Loop C	T <sub>hot</sub> _____ °F T <sub>cold</sub> _____ °F ΔT _____ °F
10. Subcooling	°F
11. Charging Flow	GPM
12. Letdown Flow	GPM
13. SI Flow	GPM
14. Boron Concentration (Sample)	(time) PPM
15. RVLIS (Dynamic/Full/Upper)	%
16. RCS Leakage	GPM
17. RCPs Operating	( A / B / C )

PROVIDE DATA FOR BLANKS  
CIRCLE THE CORRECT OPTION, OR LINE THROUGH OTHERS

**ABBREVIATIONS AND SYMBOLS:**

INOPERABLE ISOLATED NA = NOT APPLICABLE  
▲ = OFF SCALE HIGH ▼ = OFF SCALE LOW

CONTAINMENT STATUS:	
1. Phase A - All Isolated	<input type="checkbox"/> Yes <input type="checkbox"/> No
2. CVI - All Isolated	<input type="checkbox"/> Yes <input type="checkbox"/> No
3. Cnmt. Pressure (WR)	PSIG
4. Cnmt. Temperature	°F
5. Hydrogen Concentration	%
6. Sump Level	%
7. RWST Level	%
8. Spray Add. Tank Level	%

SECONDARY SYSTEMS STATUS	
1. Main Steam Flow:	
A. FI-474	_____ MPPH
B. FI-484	_____ MPPH
C. FI-494	_____ MPPH
2. Main Feedwater Flow:	
A. FI-476	_____ MPPH
B. FI-486	_____ MPPH
C. FI-496	_____ MPPH
3. Aux. Feedwater Flow:	
A. FI-2050A	_____ KPPH
B. FI-2050B	_____ KPPH
C. FI-2050C	_____ KPPH
4. Steam Generator Press.:	
A. PI-476	_____ PSIG
B. PI-486	_____ PSIG
C. PI-496	_____ PSIG
5. Steam Generator Levels:	
Wide Range	
A	_____ %
B	_____ %
C	_____ %
Narrow Range	
A	_____ %
B	_____ %
C	_____ %
6. SG Safety(s) Open	_____ Number ( A / B / C )
7. SG PORV(s) Open	( A / B / C )
8. Primary - Sec. Leakage	GPM

AC ELECTRICAL POWER:	
1. A-SA AC Bus Voltage	_____ V AC
2. B-SB AC Bus Voltage	_____ V AC

DC ELECTRICAL POWER:	
1. A-SA DC Bus Voltage	_____ V DC
2. B-SB DC Bus Voltage	_____ V DC

**PLANT PARAMETER INFORMATION FORM**

Date: \_\_\_\_\_ Time: \_\_\_\_\_

CSFST STATUS:	
CSF-1 Subcriticality	(Red/Orange/Yellow/Green)
CSF-2 Core Cooling	(Red/Yellow/Green)
CSF-3 Heat Sink	(Red/Orange/Yellow/Green)
CSF-4 RCS Integrity	(Red/Orange/Yellow/Green)
CSF-5 Containment	(Red/Orange/Yellow/Green)
CSF-6 RCS Inven.	(Yellow/Green)

SEISMIC CONDITIONS:	
1. "SEISMIC MON OBE EXCEEDED" Alarm	<input type="checkbox"/> Yes <input type="checkbox"/> No
2. White Event Indicator on SMA Control Panel	<input type="checkbox"/> Yes <input type="checkbox"/> No
3. Alarm at Triaxial Spectrum Annunciator	<input type="checkbox"/> Yes <input type="checkbox"/> No
4. Noticeable Tremors	<input type="checkbox"/> Yes <input type="checkbox"/> No

METEOROLOGICAL CONDITIONS:	
1. Wind Speed (lower)	MPH
2. Wind Direction (lower)	Deg
3. Stability Class	

SPENT FUEL POOL SYSTEMS:	
1. Unit 1 New Fuel Pool Level	Ft.
2. Unit 1 Spent Fuel Pool Level	Ft.

PROVIDE DATA FOR BLANKS

CIRCLE THE CORRECT OPTION, OR LINE THROUGH OTHERS

**ABBREVIATIONS AND SYMBOLS:**

INOPERABLE ISOLATED NA = NOT APPLICABLE

▲ = OFF SCALE HIGH ▼ = OFF SCALE LOW

ESF Equipment Out Of Service: \_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

RADIATION MONITORS:		
<b>Effluent Monitors:</b>		
1. CNMT Leak Det	REM-1LT-3502-SA	µCi/ml
2. CNMT Hi Range	REM-1CR-3589-SA	R/hr
3. CNMT Hi Range	REM-1CR-3590-SB	R/hr
4. PVS 1 WRGM Effl.	RM-21AV-3509-1SA	µCi/sec
5. PVS 1 WRGM (L/M/H)	RM-21AV-3509-1SA	µCi/ml
6. TB Stk 3 WRGM Effl.	RM-1TV-3536-1	µCi/sec
7. TB Stk 3 WRGM (L/M/H)	RM-1TV-3536-1	µCi/ml
8. CVPETS	REM-1TV-3534	µCi/ml
<b>Main Steam Line Monitors:</b>		
1. MSL A	RM-1MS-3591-SB	mR/hr
2. MSL B	RM-1MS-3592-SB	mR/hr
3. MSL C	RM-1MS-3593-SB	mR/hr
<b>Fuel Breach Monitors:</b>		
1. VCT Area	RM-1RR-3595	mR/hr
2. CSIP A Area	RM-1RR-3599A	mR/hr
3. CSIP B Area	RM-1RR-3599B	mR/hr
4. CSIP C Area	RM-1RR-3599C	mR/hr
5. BRS Hx Area	RM-1RR-3600	mR/hr
6. Ltdn Hx Area	RM-1RR-3601	mR/hr
7. Mod Hx Area	RM-1RR-3602	mR/hr
<b>Waste Process. Bldg. Radiation Monitors:</b>		
1. Stack 5 WRGM Eff	RM-1WV-3546-1	µCi/sec
2. Stk 5 WRGM (L/M/H)	RM-1WV-3546-1	µCi/ml
3. Stack 5A WRGM Eff	RM-1WV-3547-1	µCi/sec
4. Stk 5A WRGM(L/M/H)	RM-1WV-3547-1	µCi/ml
5. TL&HS Disch	RM-1WL-3540	µCi/ml
6. SWTS Disch	RM-21WS-3542	µCi/ml
7. WMT Disch	REM-1WL-3541	µCi/ml
8. Turbine Bldg Drain	REM-1WL-3528	µCi/ml
<b>Fuel Handling Bldg. Radiation Monitors:</b>		
1. SFP South (Highest)	RM-1FR-3564A-SA	mR/hr
2. SFP South (Highest)	RM-1FR-3564B-SB	mR/hr
3. SFP South (Highest)	RM-1FR-3565A-SA	mR/hr
4. SFP South (Highest)	RM-1FR-3565B-SB	mR/hr
5. SFP North (Highest)	RM-1FR-3566A-SA	mR/hr
6. SFP North (Highest)	RM-1FR-3566B-SB	mR/hr
7. SFP North (Highest)	RM-1FR-3567A-SA	mR/hr
8. SFP North (Highest)	RM-1FR-3567B-SB	mR/hr

## Revision Summary PEP-310 Rev.11

This revision updates the PPIF (Att. 14) SPDS Color codes per ESR 00-00303 and also provides clarification for several items based on user feedback as listed below:

**Page/Section:    Revision Description:**

- Pg. 9,  
4.2.5.A.2)    Corrected generic pager code NNNNNNN to be 9999 as referenced in section 4.3 of the procedure.
- Pg. 13, Att. 1    Added footnote referencing request EMS support when requesting fire fighting support. Reference FPP-002, Fire Emergency, Rev. 21, standard Wake County response *DCF 2001P2003*
- Pg. 32, Att. 10    Clarified approval documentation process associated with ERFIS generated notification forms. *DCF 2001P0332*
- Pg. 36, Att. 12    Part 3, Step A, separated 2 actions previously included in a single step *DCF 2001P2123*
- Pg. 39, Att. 14    PPIF, Sheet 2, "CSFST STATUS", changed color code from "Magenta" to "Orange" per ESR 00-00303. *DCFs 2001P1045 & 2001P1397*
- PPIF, Sheet 2, , deleted PVS #1 PIG (Gas) REM-1AV-3509SA & WPB Stack 5A PIG (Gas) REM-1WV-3547 (PIG channels were redundant to WRGM channel and is being removed by ESR 00-00326). Also, deleted Stack 5 PIG (Gas) REM-1WV-3546 similar to above for consistency and pending similar changes for this monitor. *DCF 2001P0332*
- Improved alignment and format of pages
- Various            Grammatical and format improvements including:
- Improved text of instructions to reference Attachment numbers vice Form numbers (Controlled Forms program is no longer used - PassPort implementation). This affected Pg 3 (3.2), Pg 7(3.9.2), Pg 8 (4.2.3) Pgs 19/20 (att 6) & Pg 22 (Att 7).
  - Formatted Notes to use bullets when multiple items are included. This affected pgs 4,5 & 6
  - Adjusted formatting to keep steps/substeps together and aligned (pgs 9 - 11)
  - Modified terminology reference Corporate Insurance Administrator (deleted CP&L) to be consistent with other references (pg 6)
  - Corrected sentence structure through addition of words "to", "are" or "the" (pgs 4 & 5) and deleting duplicate "them" (pg 24)
  - Separated one step with 2 options into 2 steps (1.A pg. 4)
  - Updated titles of referenced procedures PEP-340 and AP-617 (pg 12)
  - Corrected procedure number SP-15 to SP-015 (pg 18)



CAROLINA POWER & LIGHT COMPANY  
SHEARON HARRIS NUCLEAR POWER PLANT  
PLANT OPERATING MANUAL

VOLUME 2

PART 5

PROCEDURE TYPE: Plant Emergency Procedure  
NUMBER: PEP-110  
TITLE: Emergency Classification and  
Protective Action Recommendations

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## 1.0 PURPOSE

1. The purpose of this procedure is to provide guidance on the use of Emergency Action Levels (EALs) for classifying an emergency. This implements Section 4.1 of PLP-201.
2. This procedure provides guidelines for determining Protective Action Recommendations (PARs) to be made to offsite authorities during a General Emergency. This implements Section 4.5 of PLP-201.
3. This procedure provides guidance for summarizing events and actions taken during an event for use during facility turnover and facility briefings. This implements Section 2.3 of PLP-201.
4. This procedure provides guidance for event termination and entry into Recovery. This implements Section 6.7 of PLP-201.

## 2.0 INITIATING CONDITIONS

1. Conditions exist which, in the judgment of the Superintendent-Shift Operations (S-SO), could be classified as an emergency.
2. Entry into the Emergency Action Level network has been directed by any of the Emergency Operating Procedures, Fire Protection Procedures, Abnormal Operating Procedures, or any other procedure.
3. A Critical Safety Function Status Tree (CSFST) on the Safety Parameter Display System has produced a valid red or orange output and monitoring of the CSFSTs has been authorized in accordance with an approved procedure.
4. Notification has been received from the senior member of the Security Organization, or his designee, that a "Security Alert" or "Security Emergency" has been initiated.
5. Entry into the Emergency Action Level (EAL) Flowpath has been made at the discretion of the Site Emergency Coordinator for the purposes of reclassification.
6. A General Emergency has been declared.
7. Conditions have been stabilized and the Site Emergency Coordinator is preparing to terminate the emergency and enter into Recovery as per PEP-500.

### 3.0 PROCEDURE STEPS

#### 3.1 Emergency Classification

NOTE: • Implementation of this Section does not constitute an emergency.

- This section serves as a guideline to assist in comparison of plant conditions with Emergency Action Levels to evaluate whether an emergency should be declared.
1. Once implemented, this section shall remain in effect until either:
    - a. The determination has been made by the Superintendent-Shift Operations or his designated alternate, that an Emergency Action Level has not been exceeded.
    - b. Conditions which resulted in declaration of an emergency have been resolved and the emergency has been terminated.
  2. Enter the Emergency Action Level (EAL) Flowpath at Entry Point X, unless directed to another entry point.
  3. The Flowpath may be entered at any time at the discretion of the Site Emergency Coordinator (SEC-CR) or Superintendent-Shift Operations or designee. The Flowpath can be reentered as appropriate in order to check the classification or to reclassify an event in progress.

---

#### CAUTION

The highest emergency class for which an Emergency Action Level was exceeded shall be declared.

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4. Complete the Flowpath, and if an emergency is declared, perform notifications in accordance with the highest level condition indicated on the EAL STATUS BOARD.
5. Implement PEP-230 and/or PEP-240 as appropriate.

#### 3.2 Plant Based Protective Action Recommendations (PARs)

1. Use Attachment 3, "Protective Action Recommendation Process" as an aid in determining the proper PAR.
2. At a minimum, evacuation of a 2 mile radius and 5 miles downwind (with sheltering of all other Subzones) will be recommended for a General Emergency declaration.



### 3.2 Plant Based Protective Action Recommendations (PARs) (continued)

3. Evacuation of a 5 mile radius and 10 miles downwind (with sheltering of all other Subzones) will be recommended for plant conditions in which:
  - a. Substantial core damage is imminent or has occurred. Indications that substantial core damage is imminent or has occurred include:
    - (1) Core damage estimations >1% Melt.
    - (2) Core Exit Thermocouple readings  $\geq 2300^{\circ}$  F.
    - (3) Core uncovered > 30 minutes.
  - b. A significant loss of reactor coolant is imminent or has occurred. Indications that a significant loss of reactor coolant is imminent or has occurred include:
    - (1) Containment Radiation Monitors reading:
      - >10,000 R/Hr with no containment spray.
      - >4,000 R/Hr with containment spray on.
    - (2) Containment hydrogen gas concentration >1%.
    - (3) Rapid vessel depressurization.
    - (4) A large break loss of coolant accident.
  - c. Containment failure (primary or S/G) is imminent or has occurred. Indications that containment failure (primary or S/G) is imminent or has occurred include:
    - (1) A release of radioactivity can not be maintained below the General Emergency EAL criteria.
    - (2) Primary containment pressure can not be maintained below design basis pressure which is 45 psig.
    - (3) Primary containment H<sub>2</sub> gas concentration can not be maintained below combustible limits which is 4% by volume.
    - (4) Faulted/Ruptured S/G with a relief valve open.
4. Containment monitors can provide indication of both core damage and RCS breach. Monitor values used to determine a specific amount of core damage are dependent on plant conditions, power history, and time after shutdown. Monitor readings used to quantify an amount of damage or coolant leakage should be complimented by other indications and engineering judgment.

### 3.2 Plant Based Protective Action Recommendations (PARs) (continued)

5. If a release is in progress:
  - a. Perform dose assessment as soon as possible to determine if PAGs are exceeded and if additional Subzones require evacuation.
  - b. Add any Subzones requiring evacuation as determined by dose assessment to the plant based PARs.
6. If no release is in progress:
  - a. Perform dose projections on possible conditions as time permits to determine if PAGs could be exceeded.
  - b. Consider adding any Subzones requiring evacuation as determined by dose projection to the plant based PARs.

### 3.3 Dose Assessment Based Protective Action Recommendations (PARs)

**NOTE:** Dose projections are not required to support the decision process in Attachment 3, "Protective Action Recommendation Process."

1. In the event dose assessment results indicate the need to recommend actions beyond the outer EPZ boundaries, that is past 10 miles:
  - a. Dispatch Environmental Teams to downwind areas to verify the calculated exposure rates prior to issuing PARs outside the EPZ.
  - b. Many assumptions exist in dose assessment calculations, involving both source term and meteorological factors, which make computer predictions over long distances highly questionable.
2. From the Control Room: If a release is in progress and time permits, perform offsite dose assessment in accordance with PEP-340 to determine whether the plant based protective actions of Attachment 3 are adequate.
3. From the Emergency Operations Facility: Conduct offsite dose assessment in accordance with PEP-340 to determine whether the plant based protective actions of Attachment 3 are adequate using the following methods as applicable:
  - a. Monitored Release:
    - (1) If a release is in progress, assess the calculated impact to determine whether the plant based PARs of Attachment 3 are adequate.

3.3. Dose Assessment Based Protective Action Recommendations (PARs)  
continued)

- (2) If a release is not in progress, use current meteorological and core damage data to project effluent monitor threshold values which would require 2, 5, and 10 mile evacuations (Attachment 3). Reestablish threshold values whenever meteorological conditions or core damage assessment values change.
  - b. Containment Leakage/Failure:
    - (1) If a release is in progress, assess the calculated impact to determine whether the plant based PARs of Attachment 3 are adequate.
    - (2) If a release is not in progress, use current meteorological and core damage data on various scenarios (design leakage, failure to isolate, catastrophic failure) to project the dose consequences.
      - Determine whether the plant based PARs of Attachment 3 are adequate.
      - Reestablish scenario values whenever meteorological conditions or core damage assessment values change.
  - c. Field Survey Analysis: Actual field readings from Environmental Teams should be compared to dose assessment results and used as a dose projection method to validate calculated PARs and to determine whether the plant or release based protective actions of Attachment 3 are adequate.
  - d. Release Point Analysis: Actual sample data from monitored or unmonitored release points should be utilized in conjunction with other dose assessment and projection methods to validate calculated PARs and to determine whether the plant based protective actions of Attachment 3 are adequate.
4. The Emergency Response Manager and the Radiological Control Manager shall discuss dose assessment and projection analysis results and evaluate their applicability prior to issuing PARs to the State if possible.

3.4 Downgrading the Emergency Classification Level

1. If the action level currently has abated to a lower declaration or the situation has been resolved prior to completion of off-site reporting:
  - a. Declare the highest classification for which an Emergency Action Level was exceeded, if not already done, and

### 3.4 Downgrading the Emergency Classification Level (continued)

- b. Downgrade immediately to the emergency classification appropriate for the present conditions.
2. Downgrading of an emergency is performed by issuing a notification to a lower emergency classification level whenever plant conditions improve to satisfy the affected Emergency Action Levels. However, the following guidelines apply:
    - a. If the Emergency Response Manager (ERM) position is activated, he shall be consulted before downgrading occurs.
    - b. If the NRC Director of Site Operations position is activated, he should be consulted before downgrading occurs.
    - c. If offsite Protective Action Recommendations have been made, the SEC-TSC shall consult with the ERM and with State and County authorities, prior to downgrading. It is recommended that any off-site Protective Action Recommendations be completed prior to downgrading of a General Emergency.
    - d. Where lasting damage has occurred to the fission product barriers or to safety systems, the ERM should transition to PEP-500 rather than a simple downgrade of the emergency.
    - e. For Alert or higher classifications, unless the conditions causing emergency action levels are very quickly resolved (less than approximately 30 minutes), downgrading should not occur until after the TSC and EOF are activated.

### 3.5 Emergency Termination and Transition to Recovery

1. If entering Recovery from an Unusual Event, determine the need for a Recovery Plan and support organization.
  - a. Generally, the activities following an Unusual Event will not require the formation of a Recovery Organization or a transition period prior to event termination and entry into Recovery.
  - b. Refer to PEP-500 for further guidance if recovery efforts following an Unusual Event extend beyond offsite notification and the generation of required reports.
2. Complete the Termination Checklist (Attachment 5).
  - a. If conditions will allow for the termination of the emergency and entry into Recovery, exit this procedure and enter PEP-500, "Recovery."

### 3.5 Emergency Termination and Transition to Recovery (continued)

- b. If conditions do not support termination of the emergency and entry into Recovery, continue following the guidance provided in Section 3.1.

## 4.0 GENERAL

### 4.1 Guidelines for Use of the EAL Flowpath

1. Equivalent parameters or redundant instrumentation, should be utilized whenever possible to confirm the validity of instrumentation response when evaluating Emergency Action Levels.
2. If, at any time, a General Emergency declaration is warranted, the SEC is to note the EAL Reference Number on the EAL status board. Immediately declare a General Emergency and carry out the appropriate actions.
3. If an event other than a General Emergency is warranted, the SEC is to circle the indicated level, note the EAL Reference Number on the EAL STATUS BOARD and continue through the Flowpath. Upon completion of the Flowpath the highest indicated level shall be declared.
4. The Flowpath can be entered or reevaluated at the discretion of the SEC.
5. The highest emergency class for which an Emergency Action Level was exceeded shall be declared.

### 4.2 Specific Rules for Use of the EAL Flowpath

1. Entry into the EAL Flowpath will be via Entry Point X unless otherwise specifically directed by an approved plant procedure or by the EAL Flowpath itself.
2. The MOST RECENT information is to be utilized, when answering the questions asked in the EAL Flowpath. The information available may precede the event that is in progress, but it should be used until superseded by new information. As an example, the Flowpath asks if RCS activity is greater than 300  $\mu\text{Ci/cc}$ . The SEC is to use the last sample results (for example 10  $\mu\text{Ci/cc}$ ) until the on-duty chemist reports otherwise.
3. When new data is available, the SEC is to reenter the EAL Flowpath at entry point X, unless directed by an approved procedure to enter at Point T, U, V, or Y.
4. When the Fission Product Barrier Analysis states to "Indicate a Fission Product Barrier (FPB) to be Breached, Jeopardized, or Intact," the SEC is to indicate (for example, with an X or check mark) the status on the FPB Status Board, before continuing with the Flowpath.

#### 4.2 Specific Rules for Use of the EAL Flowpath (continued)

5. If any item on the EAL Flowpath cannot be answered, it is to be circled and assumed to be satisfactory until proven otherwise and evaluation of the remainder of the Flowpath is continued without delay. Samples/analysis are to be requested, if the information is unavailable or suspect. This is acceptable because sufficient backup instrumentation is available, and utilized, so that declaration of the proper EAL should not be impeded.

**NOTE:** The term "functional" should not be confused with the term "operable" (that is, if a component is declared inoperable per Technical Specifications, it may still be functional if it can fulfill its desired task under current conditions).

6. The "Functions Required For Shutdown" Table (EAL Table 3) list those items required for the plant to achieve and maintain shutdown and cooldown conditions.
  - a. If the plant is in Modes 1, 2, or 3, then both the Mode 3 and the Modes 4-5 columns apply.
  - b. If the plant is in Mode 4 or 5, then only the Mode 4-5 column applies.
7. If the plant is in Mode 5 and no charging pumps are available, an Alert should be declared only if other means of charging (that is, RHR from the RWST) are unavailable.
8. When a "Continuing Action" is encountered, record on the EAL Status Board:
  - a. The time that the event began.
  - b. The time that the time limit expires.
  - c. The required time duration.
  - d. The current EAL that will be affected when the time expires.

#### 4.3 Protective Action Recommendations (PARs) General Guidance

1. PARs are made by HNP personnel whenever a General Emergency is declared. Additionally, if in the opinion of the Emergency Response Manager, or the SEC-CR if the EOF is not yet activated, conditions warrant the issuance of PARs, a General Emergency will be declared (HNP will not issue PARs for any accident classified below a General Emergency).
2. PARs provided in response to a radioactive release include evacuation and taking shelter.

#### 4.3 Protective Action Recommendations (PARs) General Guidance (continued)

- a. Evacuation is the preferred action unless external conditions impose a greater risk from the evacuation than from the dose received.
  - b. HNP personnel do not have the necessary information to determine whether offsite conditions would require sheltering instead of an evacuation. Therefore, an effort to base PARs on external factors (such as road conditions, traffic/traffic control, weather or offsite emergency worker response) should not be attempted.
3. At a minimum, a plant condition driven PAR to evacuate a 2 mile radius and 5 miles downwind, and shelter all other Subzones, is issued at the declaration of a General Emergency. Depending on plant conditions, a 5 mile radius and 10 miles downwind, and shelter all other Subzones, may be issued instead of the minimum PAR.
- a. PARs are included with the initial and follow-up notifications issued at a General Emergency.
  - b. The PAR must be provided to the State within 15 minutes of (1) the classification of the General Emergency or (2) any change in recommended actions.
  - c. The PAR must be provided to the NRC as soon as possible and within 60 minutes of (1) the classification of the General Emergency or (2) any change in recommended actions.
4. The Emergency Response Manager, or the SEC-CR if the EOF is not yet activated, may elect to specify PARs for any combinations of Subzones or the entire EPZ (or beyond) regardless of plant and dose based guidance.
5. PARs should not be extended based on the results of dose projections unless the postulated release is likely to occur within a short period of time. Plant based PARs are inherently conservative such that expanding the evacuation zone as an added precaution would result in a greater risk from the evacuation than from the radiological consequences of a release. It also would dilute the effectiveness of the offsite resources used to accommodate the evacuation.
6. Protective actions taken in areas affected by plume deposition following the release are determined and controlled by offsite governmental agencies.
- a. HNP is not expected to develop offsite recommendations involving ingestion or relocation issues following plume passage.
  - b. HNP may be requested to provide resources to support the determination of post plume protective actions.

4.3 Protective Action Recommendations (PARs) General Guidance (continued)

7. Throughout the duration of a General Emergency, assess plant conditions and effluent release status to ensure the established PARs are adequate.

5.0 REFERENCES

5.1 PLP-201, "Emergency Plan"

1. Section 4.1, "Emergency Classification"
2. Section 4.5.1, "Protective Action Guides"

5.2 Referenced Plant Emergency Procedures

1. PEP-230, "Control Room Operations"
2. PEP-240, "Activation and Operation of the Technical Support Center"
3. PEP-270, "Activation and Operation of the Emergency Operations Facility"
4. PEP-310, "Notifications and Communications"
5. PEP-500, "Recovery"



### 5.3 Other References

1. North Carolina Emergency Response Plan in Support of the Shearon Harris Nuclear Power Plant”
2. EPA 400-R-92-001, “Manual of Protective Action Guides and Protective Actions for Nuclear Incidents”
3. NUREG-0654 Supplement 3, “Criteria for Protective Action Recommendations for Severe Accidents”
4. NUREG/BR-0150, Vol. 4, Rev.4, US NRC, RTM-96 Response Technical Manual
5. Regulatory Guide 1.101 “Emergency Planning and Preparedness for Nuclear Power Plants”
6. EPPOS No.1 “Emergency Preparedness Position (EPPOS) on Acceptable Deviations to Appendix 1 to NUREG-0654/FEMA-REP-1”

### 6.0 SPECIAL TOOLS AND EQUIPMENT

1. EAL Flow Paths: Mounted EAL Flow Paths are maintained in the Main Control Room, TSC and EOF.
2. PAR Boards: Mounted PAR boards, based on Attachment 3, are maintained in the Main Control Room, TSC and EOF.

### 7.0 DIAGRAMS AND ATTACHMENTS

See Table of Contents

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**EAL FLOWPATH SIDE 1**

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A Folded Copy of the Emergency Action Level  
Flowpath (Rev. 01-3) is contained in the  
Plastic Sleeve Following This Hardcopy Page

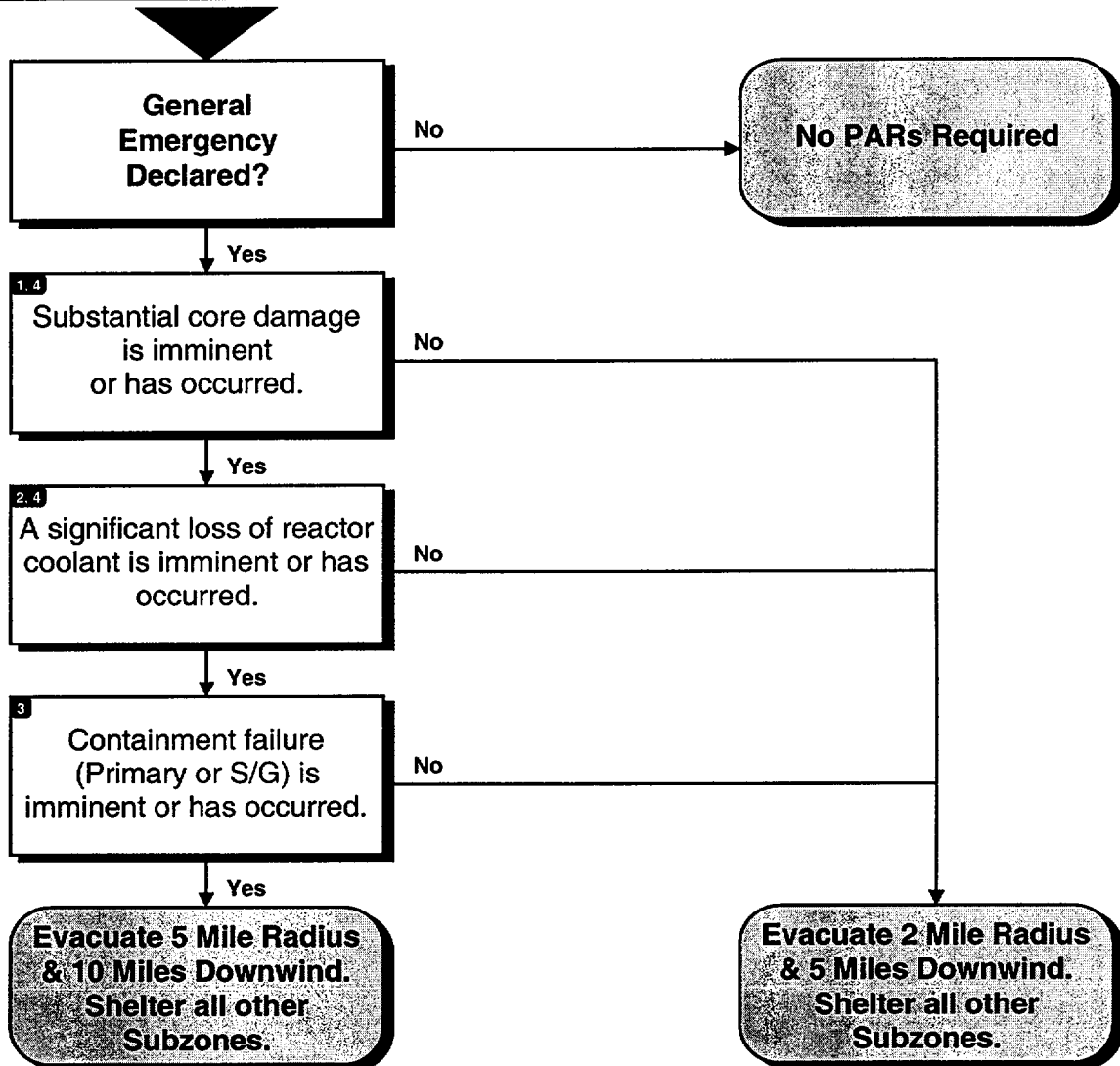
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**EAL FLOWPATH SIDE 2**

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A Folded Copy of the Emergency Action Level  
Flowpath (Rev. 01-3) is contained in the  
Plastic Sleeve Following This Hardcopy Page

**PROTECTIVE ACTION RECOMMENDATION PROCESS**



**5 Mile Radius, 10 Miles Downwind**

Wind Direction (From °)	Evacuate Subzones	Shelter Subzones
348° - 010°	A,B,C,D,H,I,K,L	E,F,G,J,M,N
011° - 034°	A,B,C,D,H,I,J,K,L	E,F,G,M,N
035° - 079°	A,B,C,D,I,J,K,L,M	E,F,G,H,N
080° - 101°	A,B,C,D,J,K,L,M	E,F,G,H,I,N
102° - 124°	A,B,C,D,J,K,L,M,N	E,F,G,H,I
125° - 146°	A,B,C,D,K,L,M,N	E,F,G,H,I,J
147° - 191°	A,B,C,D,E,K,L,M,N	F,G,H,I,J
192° - 214°	A,B,C,D,E,K,L,N	F,G,H,I,J,M
215° - 236°	A,B,C,D,E,F,K,L	G,H,I,J,M,N
237° - 259°	A,B,C,D,E,F,G,K,L	H,I,J,M,N
260° - 326°	A,B,C,D,F,G,H,K,L	E,I,J,M,N
327° - 347°	A,B,C,D,G,H,I,K,L	E,F,J,M,N

**2 Mile Radius 5 Miles Downwind**

Wind Direction (From °)	Evacuate Subzones	Shelter Subzones
327° - 010°	A,D,K	B,C,E,F,G,H,I,J,L,M,N
011° - 056°	A,K	B,C,D,E,F,G,H,I,J,L,M,N
057° - 124°	A,K,L	B,C,D,E,F,G,H,I,J,M,N
125° - 191°	A,B,L	C,D,E,F,G,H,I,J,K,M,N
192° - 214°	A,B	C,D,E,F,G,H,I,J,K,L,M,N
215° - 259°	A,B,C	D,E,F,G,H,I,J,K,L,M,N
260° - 281°	A,B,C,D	E,F,G,H,I,J,K,L,M,N
282° - 304°	A,C,D	B,E,F,G,H,I,J,K,L,M,N
305° - 326°	A,C,D,K	B,E,F,G,H,I,J,L,M,N

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## PROTECTIVE ACTION RECOMMENDATION PROCESS

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1. Indications that substantial core damage is imminent or has occurred include:
  - a) Core damage > 1% Melt.
  - b) Core Exit Thermocouple readings  $\geq 2300^{\circ}$  F.
  - c) Core uncovered > 30 minutes.
2. Indications that a significant loss of reactor coolant is imminent or has occurred include:
  - a) Containment radiation reading > 10,000 R/Hr without spray or > 4,000 R/Hr with spray.
  - b) Containment hydrogen gas concentration > 1%.
  - c) Rapid vessel depressurization.
  - d) A large break loss of coolant accident.
3. Indications that containment failure (primary or S/G) is imminent or has occurred include:
  - a) A release of radioactivity can not be maintained below the General Emergency EAL criteria.
  - b) Primary containment pressure can not be maintained below design basis pressure which is 45 psig.
  - c) Primary containment H<sub>2</sub> gas concentration can not be maintained below combustible limits which is 4% by volume.
  - d) Faulted/Ruptured S/G with a relief valve open.
4. Accidents which result in a direct release pathway to the environment (for example, a faulted and ruptured S/G with water level below the tube bundles and a relief valve open would provide such a pathway) will most likely be thyroid dose limiting. For circumstances involving this type of accident sequence:
  - a) Consider **any** Fuel Breach sufficient to warrant the determination that substantial core damage has occurred.
  - b) Consider **any** RCS Breach sufficient to warrant the determination that a significant loss of reactor coolant has occurred.

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Containment monitors can provide indication of both core damage and RCS breach. Monitor values used to determine a specific amount of core damage are dependent on plant conditions, power history and time after shutdown. Monitor readings used to quantify an amount of damage or coolant leakage should be complimented by other indications and engineering judgment.

If a release is in progress:

- Perform dose assessment as soon as possible to determine if PAGs are exceeded and if additional Subzones require evacuation.
- Add any Subzones requiring evacuation as determined by dose assessment to the plant based PARs.

If no release is in progress:

- Perform dose projection on possible conditions as time permits to determine if PAGs could be exceeded.
- Consider adding any Subzones requiring evacuation as determined by dose projection to the plant based PARs.

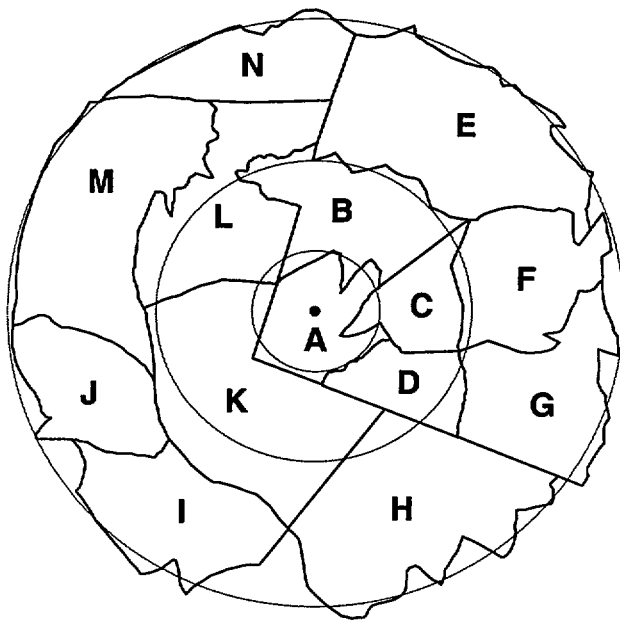
Date/Time: \_\_\_\_\_

**EVENT INFORMATION WORKSHEET**

A) Emergency Classification	D) Radiological Release																
<p>Time Declared: _____ (24 hr)</p> <p><input type="checkbox"/> Unusual Event    <input type="checkbox"/> Alert</p> <p><input type="checkbox"/> Site Area        <input type="checkbox"/> General</p> <p>Provide a brief summary of the event and mitigating actions in progress:</p> <p>EAL: _____</p> <p>_____</p> <p>_____</p> <p>_____</p> <p>_____</p> <p>_____</p>	<p><input type="checkbox"/> None                      <input type="checkbox"/> Controlled</p> <p><input type="checkbox"/> Imminent                <input type="checkbox"/> Uncontrolled</p> <p><input type="checkbox"/> In Progress              <input type="checkbox"/> Below PAGs</p> <p style="padding-left: 150px;"><input type="checkbox"/> Above PAGs</p> <p>Time Started: _____ (24 hr)</p> <p>Noble Gas: _____ Ci/sec</p> <p>Iodines: _____ Ci/sec</p> <p>Projected Duration: _____ hours</p>																
E) Personnel Status																	
<p><b>B) Fission Product Barrier Status</b></p> <table style="width:100%; border-collapse: collapse;"> <thead> <tr> <th style="width: 30%;"></th> <th style="width: 15%; text-align: center;"><u>Fuel</u></th> <th style="width: 15%; text-align: center;"><u>RCS</u></th> <th style="width: 15%; text-align: center;"><u>Cnmt</u></th> </tr> </thead> <tbody> <tr> <td>Intact:</td> <td style="text-align: center;"><input type="checkbox"/></td> <td style="text-align: center;"><input type="checkbox"/></td> <td style="text-align: center;"><input type="checkbox"/></td> </tr> <tr> <td>Jeopardy:</td> <td style="text-align: center;"><input type="checkbox"/></td> <td style="text-align: center;"><input type="checkbox"/></td> <td style="text-align: center;"><input type="checkbox"/></td> </tr> <tr> <td>Breached:</td> <td style="text-align: center;"><input type="checkbox"/></td> <td style="text-align: center;"><input type="checkbox"/></td> <td style="text-align: center;"><input type="checkbox"/></td> </tr> </tbody> </table>		<u>Fuel</u>	<u>RCS</u>	<u>Cnmt</u>	Intact:	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Jeopardy:	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Breached:	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<p>Missions in plant:        <input type="checkbox"/> No    <input type="checkbox"/> Yes</p> <p>Injuries (No. _____): <input type="checkbox"/> No    <input type="checkbox"/> Yes</p> <p>Contamination(s):        <input type="checkbox"/> No    <input type="checkbox"/> Yes</p> <p>Over Exposure(s):         <input type="checkbox"/> No    <input type="checkbox"/> Yes</p> <p style="padding-left: 150px;"><input type="checkbox"/> Minor   <input type="checkbox"/> Major</p> <p>Details (names of injured, status of family notification):</p> <p>_____</p> <p>_____</p> <p>_____</p>
	<u>Fuel</u>	<u>RCS</u>	<u>Cnmt</u>														
Intact:	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>														
Jeopardy:	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>														
Breached:	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>														
C) Plant Conditions	F) CP&L Facility Activation Status																
<p><input type="checkbox"/> On-Line                    <input type="checkbox"/> At Power: _____ %</p> <p><input type="checkbox"/> Off-Line                    <input type="checkbox"/> Cooling Down</p> <p style="padding-left: 150px;"><input type="checkbox"/> Cold Shutdown</p> <p>Time of Rx Shutdown: _____ (24 hr)</p> <p><input type="checkbox"/> Stable                      <input type="checkbox"/> Improving</p> <p><input type="checkbox"/> Unstable                    <input type="checkbox"/> Same</p> <p style="padding-left: 150px;"><input type="checkbox"/> Deteriorating</p> <p>Describe equipment, instrument, or other problems: _____</p> <p>_____</p> <p>_____</p> <p>_____</p> <p>_____</p>	<p><input type="checkbox"/> TSC: _____ (24 hr)</p> <p><input type="checkbox"/> OSC: _____ (24 hr)</p> <p><input type="checkbox"/> EOF: _____ (24 hr)</p> <p><input type="checkbox"/> JIC: _____ (24 hr)</p>																
G) Offsite Assistance Requested																	
<p><input type="checkbox"/> None</p> <p><input type="checkbox"/> Medical                    _____ (24 hr)</p> <p style="padding-left: 30px;"><input type="radio"/> Ambulance            <input type="radio"/> Helicopter</p> <p><input type="checkbox"/> Fire Department         _____ (24 hr)</p> <p style="padding-left: 30px;"><input type="radio"/> Holly Springs        <input type="radio"/> Apex</p> <p><input type="checkbox"/> Law Enforcement        _____ (24 hr)</p> <p style="padding-left: 30px;"><input type="radio"/> Local                    <input type="radio"/> State</p>																	

**EVENT INFORMATION WORKSHEET**

<p><b>H) Onsite Protective Actions</b></p> <p><input type="checkbox"/> None</p> <p><input type="checkbox"/> Assembly/Accountability</p> <p><input type="checkbox"/> Local Area(s) Evacuated</p> <p><input type="checkbox"/> Protected Area Evacuated</p> <p><input type="checkbox"/> Exclusion Area Evacuated</p> <p><input type="checkbox"/> Potassium Iodide Issued</p> <p><input type="checkbox"/> Employee Info Phone #: _____</p>	<p><b>K) Offsite Facility Activation Status</b></p> <p><input type="checkbox"/> Chatham County EOC: _____ (24 hr)</p> <p><input type="checkbox"/> Harnett County EOC: _____ (24 hr)</p> <p><input type="checkbox"/> Lee County EOC: _____ (24 hr)</p> <p><input type="checkbox"/> Wake County EOC: _____ (24 hr)</p> <p><input type="checkbox"/> State EOC: _____ (24 hr)</p> <p><input type="checkbox"/> NRC Incident Response Center: _____ (24 hr)</p>												
<p><b>I) Offsite Notifications (last issued)</b></p> <table style="width:100%; border: none;"> <tr> <td style="width:30%;">State/County</td> <td>Time: _____ (24 hr)</td> </tr> <tr> <td>NRC</td> <td>Time: _____ (24 hr)</td> </tr> <tr> <td>News Release</td> <td>Time: _____ (24 hr)</td> </tr> <tr> <td>Hospital</td> <td>Time: _____ (24 hr)</td> </tr> <tr> <td>INPO</td> <td>Time: _____ (24 hr)</td> </tr> <tr> <td>ANI</td> <td>Time: _____ (24 hr)</td> </tr> </table>	State/County	Time: _____ (24 hr)	NRC	Time: _____ (24 hr)	News Release	Time: _____ (24 hr)	Hospital	Time: _____ (24 hr)	INPO	Time: _____ (24 hr)	ANI	Time: _____ (24 hr)	<p><b>L) Offsite Actions/Response</b></p> <p><input type="checkbox"/> None Issued, or</p> <p style="margin-left: 20px;"> <input type="radio"/> Schools                      <input type="radio"/> Daycare  <input type="radio"/> Hospitals                      <input type="radio"/> Rest Homes  <input type="radio"/> Lake Evacuations  <input type="radio"/> Other: _____          _____  <input type="radio"/> Evac: A B C D E F G H I J K L M N  <input type="radio"/> Shelter: A B C D E F G H I J K L M N          (circle the affected subzones)       </p> <p><input type="checkbox"/> Sirens Activated: _____ (24 hr)</p> <p><input type="checkbox"/> Tone Alerts Activated: _____ (24 hr)</p> <p><input type="checkbox"/> EAS Activated: _____ (24 hr)</p>
State/County	Time: _____ (24 hr)												
NRC	Time: _____ (24 hr)												
News Release	Time: _____ (24 hr)												
Hospital	Time: _____ (24 hr)												
INPO	Time: _____ (24 hr)												
ANI	Time: _____ (24 hr)												
<p><b>J) CP&amp;L PARs</b></p> <p><input type="checkbox"/> None Issued, or</p> <p style="margin-left: 20px;"> <input type="radio"/> Evac: A B C D E F G H I J K L M N  <input type="radio"/> Shelter: A B C D E F G H I J K L M N          (circle the affected subzones)       </p>													



Notes: \_\_\_\_\_

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**TERMINATION CHECKLIST**

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- |   | <u>True</u>              | <u>False</u>             |
|---|--------------------------|--------------------------|
| 1. Conditions no longer meet an Emergency Action Level and it appears unlikely that conditions will deteriorate.  | <input type="checkbox"/> | <input type="checkbox"/> |
| List any EAL(s) which is/are still exceeded and a justification as to why a state of emergency is no longer applicable:   |                          |                          |
| <hr/>   |                          |                          |
| <hr/>   |                          |                          |
| <hr/>   |                          |                          |
| <hr/>   |                          |                          |
| <hr/>   |                          |                          |
| <hr/>   |                          |                          |
| 2. Plant releases of radioactive materials to the environment are under control (within Tech Specs) or have ceased and the potential for a uncontrolled radioactive release is acceptably low.  | <input type="checkbox"/> | <input type="checkbox"/> |
| 3. The radioactive plume has dissipated and plume tracking is no longer required. The only environmental assessment activities in progress are those necessary to determine the extent of deposition resulting from passage of the plume. | <input type="checkbox"/> | <input type="checkbox"/> |
| 4. In-plant radiation levels are stable or decreasing, and acceptable given the plant conditions.   | <input type="checkbox"/> | <input type="checkbox"/> |
| 5. The reactor is in a stable shutdown condition and long-term core cooling is available.   | <input type="checkbox"/> | <input type="checkbox"/> |
| 6. The integrity of the Reactor Containment Building is within Technical Specification limits.  | <input type="checkbox"/> | <input type="checkbox"/> |
| 7. The operability and integrity of radioactive waste systems, decontamination facilities, power supplies, electrical equipment and plant instrumentation including radiation monitoring equipment is acceptable.                         | <input type="checkbox"/> | <input type="checkbox"/> |
| 8. Any fire, flood, earthquake or similar emergency condition or threat to security no longer exists.   | <input type="checkbox"/> | <input type="checkbox"/> |





## Revision Summary for PEP-110 Rev. 9

<b>Pg/Section</b>	<b>Changes</b>
Pg. 14 / Attachment 1	<p>The Emergency Action Level (EAL) flow path Side 1 was updated to implement the first of two changes:</p> <ul style="list-style-type: none"><li>In the first column; evaluation of Fission Product Barriers - Threshold value for detection of Fuel &amp; RCS Breach (into a Steam Generator) was lowered from 20 mR/HR to 10 mR/HR. <i>The reduction in the detection value corresponds to better analysis techniques and improved modeling of the detector geometry (ref. NCR 51390).</i></li></ul>
Pg. 15 / Attachment 2	<p>The Emergency Action Level (EAL) flow path Side 2 was updated to implement a 2<sup>nd</sup> change:</p> <p>Bottom of the figure; Unusual Event (EAL 7-1-1) CONFIRMED SECURITY EVENT WHICH INDICATES A POTENTIAL DEGRADATION IN THE LEVEL OF SAFETY OF THE PLANT AS INDICATED BY:</p> <ul style="list-style-type: none"><li>A 4<sup>th</sup> bullet "CREDIBLE THREAT AGAINST THE HARRIS PLANT" was added  <i>This additional example applicable to this EAL is an enhancement related to post 9/11/01 concerns (specifically, in response to 10/17/01 TMI threat).</i></li></ul>

### Previous (Rev. 8) Changes:

<b>Pg./Section</b>	<b>Revision</b>
Pg. 3, 2.0.3	Updated CSFST color designation from "magenta" to "orange".
Pg. 9, 4.2.2	Replaced 'u' with proper symbol " $\mu$ "
Pgs. 14 & 15, Atts. 1 & 2	Updated for EAL Revision 01-2 which was updated to implement updated Emergency Operating Procedure setpoints associated with Steam Generator Replacement.
Pgs 18 & 19, Att. 4	Deleted form number due to deletion of controlled forms program resulting from PassPort implementation.  Corrected column alignment problem on Sheet 1.  Update time references to consistently use 24 hour clock.
Pgs. 20 & 21, Att. 5	Deleted form number due to deletion of controlled forms program resulting from PassPort implementation.

**THIS PAGE IS AN  
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REV. 01-3  
"EMERGENCY ACTION LEVEL  
FLOW PATH"  
SIDE 1**

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**D-3**

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SIDE 2**

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**D-4**