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**Gary R. Peterson**  
Vice President  
Catawba Nuclear Station

March 19, 2002

U.S. Nuclear Regulatory Commission  
Attention: Document Control Desk  
Washington, DC 20555-0001

Subject: Duke Energy Corporation  
Catawba Nuclear Station Units 1 and 2  
Docket Nos. 50-413 and 50-414  
Emergency Plan Implementing Procedures

Please find enclosed for NRC Staff use and review the following  
Emergency Plan Implementing Procedures:

RP/0/A/5000/003, Alert (Rev. 038)

RP/0/A/5000/004, Site Area Emergency (Rev. 040)

RP/0/A/5000/005, General Emergency (Rev. 040)

These revisions are being submitted in accordance with 10CFR  
50.54(q) and do not decrease the effectiveness of the Emergency  
Plan Implementing Procedures or the Emergency Plan.

By copy of this letter, two copies of the above documents are  
being provided to the NRC, Region II.

If there are any questions, please call Tom Beadle at 803-831-  
4027.

Very truly yours,



Gary R. Peterson

Attachments

A045

U.S. Nuclear Regulatory Commission  
March 19, 2002  
Page 2

xc (w/attachments):

L. A. Reyes  
U.S. Nuclear Regulatory Commission  
Regional Administrator, Region II  
Atlanta Federal Center  
61 Forsyth St., SW, Suite 23T85  
Atlanta, GA 30303

(w/o attachments):

C. P. Patel  
NRC Senior Project Manager (CNS)  
U.S. Nuclear Regulatory Commission  
Mail Stop O-8 H12  
Washington, DC 20555-0001

D. J. Roberts  
Senior Resident Inspector (CNS)  
U.S. Nuclear Regulatory Commission  
Catawba Nuclear Site

DUKE POWER COMPANY  
CATAWBA NUCLEAR STATION  
EMERGENCY PLAN IMPLEMENTING PROCEDURES INDEX

VOLUME I

PROCEDURE	TITLE
RP/0/A/5000/001	Classification of Emergency (Rev. 015)
RP/0/A/5000/002	Notification of Unusual Event (Rev. 035)
RP/0/A/5000/003	Alert (Rev. 038)
RP/0/A/5000/004	Site Area Emergency (Rev. 040)
RP/0/A/5000/005	General Emergency (Rev. 040)
RP/0/A/5000/06	Deleted
RP/0/A/5000/006 A	Notifications to States and Counties from the Control Room (Rev. 014)
RP/0/A/5000/006 B	Notifications to States and Counties from the Technical Support Center (Rev. 014)
RP/0/A/5000/006 C	Deleted
RP/0/A/5000/007	Natural Disaster and Earthquake (Rev. 021)
RP/0/A/5000/08	Deleted
RP/0/B/5000/008	Spill Response (Rev. 020)
RP/0/A/5000/009	Collision/Explosion (Rev. 006)
RP/0/A/5000/010	Conducting A Site Assembly or Preparing the Site for an Evacuation (Rev. 014)
RP/0/A/5000/11	Deleted
RP/0/B/5000/12	Deleted
RP/0/B/5000/013	NRC Notification Requirements (Rev. 029)
RP/0/B/5000/14	Deleted
RP/0/A/5000/015	Core Damage Assessment (Rev. 005)
RP/0/B/5000/016	Deleted
RP/0/B/5000/17	Deleted

DUKE POWER COMPANY  
CATAWBA NUCLEAR STATION  
EMERGENCY PLAN IMPLEMENTING PROCEDURES INDEX

## VOLUME I

PROCEDURE	TITLE
RP/0/A/5000/018	Emergency Worker Dose Extension (1/15/96)
RP/0/B/5000/019	Deleted
RP/0/A/5000/020	Technical Support Center (TSC) Activation Procedure (Rev. 015)
RP/0/A/5000/021	Deleted
RP/0/B/5000/022	Evacuation Coordinator Procedure (Rev. 004)
RP/0/B/5000/023	Deleted
RP/0/A/5000/024	OSC Activation Procedure (Rev. 009)
RP/0/B/5000/025	Recovery and Reentry Procedure (Rev. 003)
RP/0/B/5000/026	Site Response to Security Events (Rev. 003)
RP/0/B/5000/028	Communications and Community Relations EnergyQuest Emergency Response Plan (Rev. 001)

DUKE POWER COMPANY  
CATAWBA NUCLEAR STATION  
EMERGENCY PLAN IMPLEMENTING PROCEDURES INDEX

VOLUME II

PROCEDURE	TITLE
HP/0/B/1000/006	Emergency Equipment Functional Check and Inventory (Rev. 053)
HP/0/B/1009/001	Radiation Protection Recovery Plan (Rev. 008)
HP/0/B/1009/003	Radiation Protection Response Following a Primary to Secondary Leak (Rev. 008)
HP/0/B/1009/004	Environmental Monitoring for Emergency Conditions Within the Ten-Mile Radius of CNS (Rev. 028)
HP/0/B/1009/005	Personnel/Vehicle Monitoring for Emergency Conditions (Rev. 016)
HP/0/B/1009/006	Alternative Method for Determining Dose Rate Within the Reactor Building (Rev. 008)
HP/0/B/1009/007	In-Plant Particulate and Iodine Monitoring Under Accident Conditions (Rev. 019)
HP/0/B/1009/008	Contamination Control of Injured Individuals (Rev. 015)
HP/0/B/1009/009	Guidelines for Accident and Emergency Response (Rev. 039)
HP/0/B/1009/014	Radiation Protection Actions Following an Uncontrolled Release of Radioactive Material (Rev. 008)
HP/0/B/1009/016	Distribution of Potassium Iodide Tablets in the Event of a Radioiodine Release (Rev. 011)
HP/0/B/1009/017	Deleted
HP/1/B/1009/017	Deleted
HP/2/B/1009/017	Deleted
HP/0/B/1009/018	Deleted
HP/0/B/1009/019	Emergency Radio System Operation, Maintenance and Communication (Rev. 010)
HP/0/B/1009/024	Implementing Procedure for Estimating Food Chain Doses Under Post-Accident Conditions (Rev. 002)

March 14, 2002

DUKE POWER COMPANY  
CATAWBA NUCLEAR STATION  
EMERGENCY PLAN IMPLEMENTING PROCEDURES INDEX

## VOLUME II

PROCEDURE	TITLE
HP/0/B/1009/025	Deleted
HP/0/B/1009/026	On-Shift Offsite Dose Projections (Rev. 003)
SH/0/B/2005/001	Emergency Response Offsite Dose Projections (Rev. 001)
SH/0/B/2005/002	Protocol for the Field Monitoring Coordinator During Emergency Conditions (Rev. 002)
OP/0/A/6200/021	Post Accident Liquid Sampling System II+ (Rev. 034)
SR/0/B/2000/001	Standard Procedure for Public Affairs Response to the Emergency Operations Facility (Rev. 003)
SR/0/B/2000/002	Standard Procedure for EOF Services (Rev. 002)
SR/0/B/2000/003	Activation of the Emergency Operations Facility (Rev. 008)
SR/0/B/2000/004	Notification to States and Counties from the Emergency Operations Facility (Rev. 004)

Duke Power Company  
PROCEDURE PROCESS RECORD

(1) ID No. RP/OA/5000/003

Revision No. 038

**PREPARATION**

(2) Station Catawba

(3) Procedure Title Alert

(4) Prepared By E. J. Beadle Date 3/10/02

- (5) Requires NSD 228 Applicability Determination?
- Yes (New procedure or revision with major changes)
  - No (Revision with minor changes)
  - No (To incorporate previously approved changes)

(6) Reviewed By GARY L Mitchell (QR) Date 3-13-02

Cross-Disciplinary Review By J Baumgardner (Ops) (QR) NA SW Date 3-14-02

Reactivity Mgmt. Review By \_\_\_\_\_ (QR) NA SW Date 3-13-02

Mgmt. Involvement Review By \_\_\_\_\_ (Ops. Supt.) NA SW Date 3-13-02

(7) Additional Reviews

Reviewed By \_\_\_\_\_ Date \_\_\_\_\_

Reviewed By \_\_\_\_\_ Date \_\_\_\_\_

(8) Temporary Approval (if necessary)

By \_\_\_\_\_ (OSM/QR) Date \_\_\_\_\_

By \_\_\_\_\_ (QR) Date \_\_\_\_\_

(9) Approved By Richard L Swigart Date 3-14-02

**PERFORMANCE** (Compare with control copy every 14 calendar days while work is being performed.)

(10) Compared with Control Copy \_\_\_\_\_ Date \_\_\_\_\_

Compared with Control Copy \_\_\_\_\_ Date \_\_\_\_\_

Compared with Control Copy \_\_\_\_\_ Date \_\_\_\_\_

(11) Date(s) Performed \_\_\_\_\_

Work Order Number (WO#) \_\_\_\_\_

**COMPLETION**

- (12) Procedure Completion Verification:
- Yes  NA Check lists and/or blanks initialed, signed, dated, or filled in NA, as appropriate?
  - Yes  NA Required enclosures attached?
  - Yes  NA Data sheets attached, completed, dated, and signed?
  - Yes  NA Charts, graphs, etc. attached, dated, identified, and marked?
  - Yes  NA Procedure requirements met?

Verified By \_\_\_\_\_ Date \_\_\_\_\_

(13) Procedure Completion Approved \_\_\_\_\_ Date \_\_\_\_\_

(14) Remarks (Attach additional pages, if necessary)

<p>Duke Power Company Catawba Nuclear Station</p> <p><b>Alert</b></p>	<p>Procedure No.</p> <p>RP/0/A/5000/003</p>
	<p>Revision No.</p> <p>038</p>
<p><b>Reference Use</b></p>	<p>Electronic Reference No.</p> <p>CN005GNM</p>

## Alert

### 1. Symptoms

- 1.1 Events are in process or have occurred which involve an actual or potential substantial degradation of the level of safety of the plant.

### 2. Immediate Actions

**NOTE:** Lines in left margin are for place keeping. Immediate actions may be performed simultaneously.

\_\_\_\_\_ Notify site personnel to activate the TSC and OSC by making the following announcement **twice** over the public address system.

*"This is the Operations Shift Manager. An Alert has been declared. Unit(s) \_\_\_\_\_ is (are) affected. Activate the TSC, OSC, and EOF."*

\_\_\_\_\_ Activate Emergency Organization by completing Enclosure 4.1 of this procedure.

\_\_\_\_\_ Notify off-site agencies within 15 minutes of Emergency declaration time using an Emergency Notification Form. Refer to one of the following notification procedures for instructions:

- RP/0/A/5000/006A, "Notifications to States and Counties from the Control Room"
- RP/0/A/5000/006B, "Notifications to States and Counties from the Technical Support Center"
- SR/0/B/2000/004, "Notifications to States and Counties from the Emergency Operations Facility"

\_\_\_\_\_ **IF** there is an indication of a radioactive release **AND** the TSC is not activated, contact RP shift to perform off-site dose assessment per HP/0/B/1009/026.

\_\_\_\_\_ **IF** a radioactive release or hazardous material spill is occurring or has occurred **AND** the TSC is not activated, contact Environmental Management (EM), ext. 3333 for assistance in reporting to state, local or federal authorities. After hours, contact the Environmental Duty person by phone or pager. **IF** no answer, page 8-777-3333 which will page all Environmental Management personnel.

\_\_\_\_\_ **IF** a Security Event exists, discuss the feasibility of conducting a site assembly with the Security Shift Supervisor at extension 5364.

**IF** a Site Assembly is not feasible per Security,

\_\_\_\_\_ Announce over the plant public address system **twice**:

*"This is the Operations Shift Manager. A security event is in progress. Do not move about the site. Remain at your present location until further notice. Report any suspicious activities to the CAS at extension 5364."*

\_\_\_\_\_ N/A the following step:

\_\_\_\_\_ Conduct a Site Assembly using RP/0/A/5000/010, "Conducting a Site Assembly or Preparing the Site for an Evacuation."

\_\_\_\_\_ Notify the NRC using RP/0/B/5000/013, "NRC Notification Requirements." This notification should be made as quickly as possible but shall be made within one hour of the emergency declaration time.

\_\_\_\_\_ Initiate Emergency Response Data System (ERDS) transmission by performing the following:

\_\_\_\_\_ Type "ERDS" or select "Main," then "General," then "ERDS" on a Control Room OAC workstation connected to the affected unit's OAC

\_\_\_\_\_ Initiate ERDS transmission by depressing F1 or clicking "Activate."

\_\_\_\_\_ IF ERDS transmission will not connect to the NRC, inform the NRC using ENS. The TSC Data Coordinator will troubleshoot and initiate ERDS transmission upon arrival in the TSC.

### 3. Subsequent Actions

**NOTE: Subsequent Actions are not required to be followed in any particular sequence.**

\_\_\_\_\_ Ensure RP has dispatched technicians for on-site monitoring/surveys per HP/0/B/1009/009, "Guidelines for Accident and Emergency Response."

\_\_\_\_\_ Make Follow-up Notifications using applicable "Notifications to States and Counties" procedure.

\_\_\_\_\_ RP/0/A/5000/018, "Emergency Worker Dose Extension," shall be used to authorize emergency worker doses expected to exceed normal occupational exposure limits during a declared emergency event or exceed blanket dose extension limits authorized by the Radiation Protection Manager.

\_\_\_\_\_ Augment shift resources to assess and respond to the emergency situation as needed.

\_\_\_\_\_ Announce over the plant public address system the current emergency classification level and summary of plant status.

\_\_\_\_\_ Assess emergency conditions and the corresponding emergency classification. See RP/0/A/5000/001, "Classification of Emergency," then:

Remain in an Alert

**OR**

Escalate to a more severe emergency classification

**OR**

Reduce to a less severe emergency classification

(Refer to Enclosure 4.3)

**OR**

Terminate the emergency (Refer to RP/0/A/5000/020 or SR/0/B/2000/003 for Termination Criteria).

- Announce any emergency classification level changes over the plant public address system, including a summary of plant status.

\_\_\_\_\_ **IF** Security Event announcement, discussed above, was made over the plant public address system, conduct a Site Assembly using RP/0/A/5000/010, "Conducting a Site Assembly or Preparing the Site for an Evacuation," and make the following announcement **twice** over the public address system after the Security Event has been terminated:

*"This is the Operations Shift Manager. The Security Event has been terminated. Proceed to your Site Assembly point."*

\_\_\_\_\_ Provide turnover to TSC Emergency Coordinator using Enclosure 4.2.

\_\_\_\_\_ In the event that a worker's behavior or actions contributed to an actual or potential substantial degradation of the level of safety of the plant (incidents resulting in an Alert or higher emergency declaration), the supervisor must consider and establish whether or not a for cause drug/alcohol screen is required. The FFD Program Administrator or designee is available to discuss/assist with the incident.

\_\_\_\_\_ The EOF Director shall close out the emergency with a verbal summary to county and state authorities. Document this summary using Enclosure 4.4.

\_\_\_\_\_ The EOF Director shall assign an individual to provide a written report to county and state authorities within thirty days. This report could be an LER or a written report if an LER is not required.

Person assigned responsibility \_\_\_\_\_

#### **4. Enclosures**

- 4.1 Emergency Organization Activation
- 4.2 Emergency Coordinator Turnover Form
- 4.3 Criteria for Downgrading an Emergency Level
- 4.4 Alert Close Out Briefing with States and Counties

## Emergency Organization Activation

- NOTES:** 1. Quiktel key pads for pager activation are located in the Control Room (behind MC14) and in the TSC (in Offsite Agency Communicator's cubicle).
2. Pager activation can be delayed up to 5 minutes depending on pager system status.

1. **IF** the Quiktel key pads used in step 3 are not available or do not function properly, immediately go to step 4.
2. Assure confirmation pagers are turned on.
3. Activate the ERO pagers at a Quiktel key pad as follows:
  - \_\_\_\_\_ 3.1 Press the <EXIT> key to assure key pad is cleared.
  - \_\_\_\_\_ 3.2 Type "ERO"
  - \_\_\_\_\_ 3.3 Press <ENTER>
  - \_\_\_\_\_ 3.4 Press "M" (for Message)
  - \_\_\_\_\_ 3.5 **IF** activation is for an **actual emergency**, perform the following:
    - \_\_\_\_\_ 3.5.1 Type the following message:  
"Catawba Emergency. An Alert was declared at \_\_\_\_\_(time). Activate the TSC, OSC and EOF."
    - \_\_\_\_\_ 3.5.2 Press "ENTER"
    - \_\_\_\_\_ 3.5.3 Monitor the confirmation pagers located at the Quiktel key pad to verify proper ERO pager activation.
    - \_\_\_\_\_ 3.5.4 **IF** pager activation is successful, go to step 5.
  - \_\_\_\_\_ 3.6 **IF** activation is for an **ERO drill**, perform the following:
    - \_\_\_\_\_ 3.6.1 Type the following message:  
"Catawba Drill. An Alert was declared at \_\_\_\_\_(time). Activate the TSC, OSC and EOF."
    - \_\_\_\_\_ 3.6.2 Press "ENTER"
    - \_\_\_\_\_ 3.6.3 Monitor the confirmation pager located at the Quiktel key pad to verify proper ERO pager activation.
    - \_\_\_\_\_ 3.6.4 **IF** pager activation is successful, go to step 5.

## Emergency Organization Activation

4. For drills or emergencies, activate the ERO pagers using a Touch Tone phone as follows:

\_\_\_ 4.1 Dial 8-777-8376.

\_\_\_ 4.2 When prompted, enter the numeric password **2580**.

\_\_\_ 4.3 When prompted, enter the activation code **6789**.

\_\_\_ 4.4 Monitor the pager located at the Quiktel key pad to verify proper ERO pager activation.

\_\_\_ 4.5 Go to Step 5.

5. Activate Automatic Dialing Call Back System (Community Alert Network)

<p><b>NOTE:</b> Back-up telephone number for Community Alert Network is 1-877-786-8478.</p>
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\_\_\_ 5.1 Dial 1-800-552-4226 (Hotline/Activation Line)

\_\_\_ 5.2 **IF** CAN is being activated for a **DRILL**, read one of the following messages depending on day and time.

**IF** Monday through Thursday between 0700 through 1730, read the following message:

"This is \_\_\_\_\_ (name) \_\_\_\_\_ from Duke Power, Catawba. The Password is Catawba. Please run Catawba Day List message number 5. Please call me back to verify system operation at \_\_\_\_\_."

(Phone # in Simulator)

**IF** not Monday through Thursday between 0700 through 1730, read the following message:

"This is \_\_\_\_\_ (name) \_\_\_\_\_ from Duke Power, Catawba. The Password is Catawba. Please run Catawba Night List message number 5. Please call me back to verify system operation at \_\_\_\_\_."

(Phone # in Simulator)

\_\_\_ 5.3 **IF** CAN is being activated for an **EMERGENCY**, read one of the following messages depending on day and time.

**IF** Monday through Thursday between 0700 through 1730, read the following message:

"This is \_\_\_\_\_ (name) \_\_\_\_\_ from Duke Power, Catawba. The Password is Catawba. Please run Catawba Day List message number 6. Please call me back to verify system operation at (803) 831-7332."

**IF** not Monday through Thursday between 0700 through 1730, read the following message:

"This is \_\_\_\_\_ (name) \_\_\_\_\_ from Duke Power, Catawba. The Password is Catawba. Please run Catawba Night List message number 6. Please call me back to verify system operation at (803) 831-7332."

Emergency Coordinator Turnover Form

1. Plant Status:

Unit 1: \_\_\_\_\_  
\_\_\_\_\_

Unit 2: \_\_\_\_\_  
\_\_\_\_\_

2. Emergency Classification: \_\_\_\_\_

Time Declared: \_\_\_\_\_

3. Off-Site Agency Notifications Turnover to TSC Complete? \_\_\_\_\_ (Y/N)

4. Time Next Notification due: \_\_\_\_\_

5. Significant Events:

\_\_\_\_\_ Radioactive Release  
Y/N

\_\_\_\_\_ Injured Personnel  
Y/N

\_\_\_\_\_ Other (Specify \_\_\_\_\_)

6. Protective Actions in Progress:

\_\_\_\_\_ Site Assembly (Time Initiated \_\_\_\_\_)  
Y/N

\_\_\_\_\_ Off-Site Protective Actions Recommended  
Y/N (List \_\_\_\_\_)

\_\_\_\_\_ Other (Specify \_\_\_\_\_)  
Y/N

7. Response Procedure In Progress:

RP \_\_\_\_\_ RP \_\_\_\_\_ RP \_\_\_\_\_

8. Actions in Progress:

\_\_\_\_\_  
\_\_\_\_\_

Criteria for Downgrading an Emergency Level

Date

Initial/Time

- \_\_\_\_\_ 1. The probability that plant conditions will continue to improve is evident.
  - \_\_\_\_\_ 2. All emergency action level notifications have been completed.
  - \_\_\_\_\_ 3. Emergency response facility staffing may be reduced.
  - \_\_\_\_\_ 4. The criteria established for the emergency classification has been evaluated. Conditions warrant a lower emergency action level.
  - \_\_\_\_\_ 5. The event related release of radioactive material to the environment is terminated.
  - \_\_\_\_\_ 6. The control of any fire, flood, earthquake or similar emergency condition is acceptable.
  - \_\_\_\_\_ 7. Any corrective actions specified by the Emergency Coordinator to place the plant in a safe condition have been completed and the plant has been placed in the appropriate operating mode.
  - \_\_\_\_\_ 8. The Emergency Coordinator has evaluated the plant status with respect to the Emergency Action Levels and recommends downgrading the emergency classification.
  - \_\_\_\_\_ 9. Emergency classification level downgraded to \_\_\_\_\_
-

**Enclosure 4.4**  
**Alert Close Out Briefing**  
**with States and Counties**

RP/0/A/5000/003  
Page 1 of 1

Person Providing Verbal Summary: \_\_\_\_\_

Brief Event Description: \_\_\_\_\_

\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

<u>Agency</u>	<u>Person Contacted</u>	<u>Date/Time</u>
South Carolina	_____	_____
North Carolina	_____	_____
York County	_____	_____
Gaston County	_____	_____
Mecklenburg County	_____	_____

Comments/Questions from States and Counties: \_\_\_\_\_

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Duke Power Company  
PROCEDURE PROCESS RECORD

(1) ID No. RP/OA/5000/004  
Revision No. 040

**PREPARATION**

- (2) Station Catawba
- (3) Procedure Title Site Area Emergency
- (4) Prepared By E. T. Beadle Date 3/10/02
- (5) Requires NSD 228 Applicability Determination?  
 Yes (New procedure or revision with major changes)  
 No (Revision with minor changes)  
 No (To incorporate previously approved changes)
- (6) Reviewed By Gary L Mitchell (QR) Date 3-14-02  
 Cross-Disciplinary Review By J Baumgardner (QR) NA          Date 3-14-02  
 Reactivity Mgmt. Review By          (QR) NA GM Date 3-14-02  
 Mgmt. Involvement Review By          (Ops. Supt.) NA GM Date 3-14-02
- (7) Additional Reviews  
 Reviewed By          Date           
 Reviewed By          Date
- (8) Temporary Approval (if necessary)  
 By          (OSM/QR) Date           
 By          (QR) Date
- (9) Approved By Richard J Swigart Date 3-14-02

**PERFORMANCE** (Compare with control copy every 14 calendar days while work is being performed.)

- (10) Compared with Control Copy          Date           
 Compared with Control Copy          Date           
 Compared with Control Copy          Date
- (11) Date(s) Performed           
 Work Order Number (WO#)

**COMPLETION**

- (12) Procedure Completion Verification:  
 Yes  NA Check lists and/or blanks initialed, signed, dated, or filled in NA, as appropriate?  
 Yes  NA Required enclosures attached?  
 Yes  NA Data sheets attached, completed, dated, and signed?  
 Yes  NA Charts, graphs, etc. attached, dated, identified, and marked?  
 Yes  NA Procedure requirements met?  
 Verified By          Date
- (13) Procedure Completion Approved          Date
- (14) Remarks (Attach additional pages, if necessary)

Duke Power Company  
Catawba Nuclear Station

Site Area Emergency

Reference Use

Procedure No.

RP/0/A/5000/004

Revision No.

040

Electronic Reference No.

CN005GNN

## Site Area Emergency

### 1. Symptoms

- 1.1 Events are in process or have occurred which involve actual or likely major failures of plant functions needed for protection of the public.

### 2. Immediate Actions

**NOTE:** Lines in left margin are for place keeping. Immediate actions may be performed simultaneously.

**IF** TSC, OSC and EOF have **NOT** been previously activated, notify the ERO to staff emergency response facilities by performing the following steps (A and B):

- \_\_\_\_\_ A. Notify site personnel to activate the TSC and OSC by making the following announcement twice over public address system:

*"This is the Operations Shift Manager. A Site Area Emergency has been declared. Unit(s) \_\_\_\_\_ is (are) affected. Activate the TSC, OSC, and EOF."*

- \_\_\_\_\_ B. Activate Emergency Response Organization by completing Enclosure 4.1 of this procedure.

\_\_\_\_\_ Notify off-site agencies within 15 minutes of Emergency declaration time using Emergency Notification Form. Refer to one of the following notification procedures for instructions:

- RP/0/A/5000/006A, "Notifications to States and Counties from the Control Room"
- RP/0/A/5000/006B, "Notifications to States and Counties from the Technical Support Center"
- SR/0/B/2000/004, "Notifications to States and Counties from the Emergency Operations Facility"

\_\_\_\_\_ **IF** there is an indication of a radioactive release **AND** the TSC is not activated, contact RP shift to perform off-site dose assessment per HP/0/B/1009/026.

\_\_\_\_\_ **IF** a radioactive release or hazardous material spill is occurring or has occurred **AND** the TSC is not activated, contact Environmental Management (EM), ext. 3333 for assistance in reporting to state, local or federal authorities. After hours, contact the Environmental Duty person by phone or pager. **IF** no answer, page 8-777-3333 which will page all Environmental Management personnel.

\_\_\_\_\_ **IF** a Security Event exists, discuss the feasibility of conducting a site assembly with the Security Shift Supervisor at extension 5364.

**IF** a Site Assembly is not feasible per Security:

\_\_\_\_\_ Announce over the plant public address system **twice**:

“This is the Operations Shift Manager. A security event is in progress. Do not move about the site. Remain at your present location until further notice. Report any suspicious activities to the CAS at extension 5364.”

\_\_\_\_\_ N/A the following step.

\_\_\_\_\_ Conduct a Site Assembly using RP/0/A/5000/010, "Conducting a Site Assembly or Preparing the Site for an Evacuation."

\_\_\_\_\_ Notify the NRC using RP/0/B/5000/013, "NRC Notification Requirements." This notification should be made as quickly as possible but shall be made within one hour of the emergency declaration time.

\_\_\_\_\_ **IF** Emergency Response Data System (ERDS) transmission has not been initiated (Alert classification), initiate ERDS within one hour of initial Alert or higher declaration by performing the following:

\_\_\_\_\_ Type “ERDS” or select “Main,” then “General,” then “ERDS” on a Control Room OAC workstation connected to the affected unit’s OAC.

\_\_\_\_\_ Initiate ERDS transmission by depressing **F1** or clicking “Activate.”

\_\_\_\_\_ **IF** ERDS transmission will not connect to the NRC, inform the NRC using ENS. The TSC Data Coordinator will troubleshoot and initiate ERDS transmission upon arrival in the TSC.

### 3. Subsequent Actions

<p><b>NOTE:</b> Subsequent Actions are not required to be followed in any particular sequence.</p>
--

\_\_\_\_\_ Ensure RP has dispatched On-Site and Off-Site Field Monitoring Teams with associated communications equipment per HP/0/B/1009/009, “Guidelines for Accident and Emergency Response.” Make follow-up notifications to state and county authorities:

- Every hour until the emergency is terminated

**OR**

- If there is any significant change to the situation

**OR**

- As agreed upon with an Emergency Management official from each individual agency

\_\_\_\_\_ Make follow-up Protective Actions on-site as needed.

- Consider evacuation of nonessential station personnel using RP/0/A/5000/010, "Conducting a Site Assembly or Preparing the Site for an Evacuation."

\_\_\_\_\_ RP/0/A/5000/018, "Emergency Worker Dose Extension," shall be used to authorize emergency worker doses expected to exceed normal occupational exposure limits during a declared emergency event or exceed blanket dose extension limits authorized by the Radiation Protection Manager.

\_\_\_\_\_ Augment shift resources to assess and respond to the emergency situation as needed.

\_\_\_\_\_ Announce over the plant public address system the current emergency classification level and summary of plant status.

\_\_\_\_\_ Assess the emergency conditions and the corresponding emergency classification. See RP/0/A/5000/001, "Classification of Emergency," then:

Remain in a Site Area Emergency

**OR**

Escalate to a more severe emergency classification

**OR**

Reduce to a less severe emergency classification (Refer to Enclosure 4.2)

**OR**

Terminate the emergency (Refer to RP/0/A/5000/020 or SR/0/B/2000/003 for Termination Criteria).

- Announce any emergency classification level changes over the plant PA, including a summary of plant status.

\_\_\_\_\_ **IF** Security Event announcement, discussed above, was made over the public address system, conduct a Site Assembly using RP/0/A/5000/010, "Conducting a Site Assembly or Preparing the Site for an Evacuation," and make the following announcement over the public address system **twice** after the Security Event has been terminated:

*"This is the Operations Shift Manager. The Security Event has been terminated. Proceed to your Site Assembly point."*

\_\_\_\_\_ Provide turnover to TSC Emergency Coordinator using Enclosure 4.3.

\_\_\_\_\_ In the event that a worker's behavior or actions contributed to an actual or potential substantial degradation of the level of safety of the plant (incidents resulting in an Alert or higher emergency declaration), the supervisor must consider and establish whether or not a for cause drug/alcohol screen is required. The FFD Program Administrator or designee is available to discuss/assist with the incident.

\_\_\_\_\_ The EOF Director shall close out or recommend reduction of the emergency class by briefing of off-site authorities at the Emergency Operations Facility or by phone if necessary. Document the close out briefing using Enclosure 4.4.

\_\_\_\_\_ The EOF Director shall assign an individual to provide a written report within thirty days. This report could be an LER or a written report if an LER is not required.

\_\_\_\_\_ Person Assigned Responsibility \_\_\_\_\_

#### **4. Enclosures**

- 4.1 Emergency Organization Activation
- 4.2 Criteria For Downgrading An Emergency Level
- 4.3 Emergency Coordinator Turnover Form
- 4.4 Site Area Emergency Close Out Briefing with States and Counties

**Enclosure 4.1**  
**Emergency Organization Activation**

RP/0/A/5000/004  
Page 1 of 2

- NOTE:**
1. Quiktel key pads for pager activation are located in the Control Room (behind MC14) and in the TSC (in Offsite Agency Communicator's cubicle).
  2. Pager activation can be delayed up to 5 minutes depending on pager system status.

1. **IF** the Quiktel key pads used in step 3 are not available or do not function properly, immediately go to step 4.

2. Assure confirmation pagers are turned on.

3. Activate the ERO pagers at a Quiktel key pad as follows:

\_\_\_\_\_ 3.1 Press the <EXIT> key to assure key pad is cleared.

\_\_\_\_\_ 3.2 Type "ERO"

\_\_\_\_\_ 3.3 Press <ENTER>

\_\_\_\_\_ 3.4 Press "M" (for Message)

\_\_\_\_\_ 3.5 **IF** activation is for an **actual emergency**, perform the following:

\_\_\_\_\_ 3.5.1 Type the following message:

"Catawba Emergency. A Site Area Emergency was declared at \_\_\_\_\_ (time).  
Activate the TSC, OSC and EOF."

\_\_\_\_\_ 3.5.2 Press "ENTER"

\_\_\_\_\_ 3.5.3 Monitor the confirmation pagers located at the Quiktel key pad to verify proper ERO pager activation.

\_\_\_\_\_ 3.5.4 **IF** pager activation is successful, go to step 5.

\_\_\_\_\_ 3.6 **IF** activation is for an **ERO drill**, perform the following:

\_\_\_\_\_ 3.6.1 Type the following message:

"Catawba Drill. A Site Area Emergency was declared at \_\_\_\_\_ (time).  
Activate the TSC, OSC and EOF."

\_\_\_\_\_ 3.6.2 Press "ENTER"

\_\_\_\_\_ 3.6.3 Monitor the confirmation pager located at the Quiktel key pad to verify proper ERO pager activation.

\_\_\_\_\_ 3.6.4 **IF** pager activation is successful, go to step 5.

**Enclosure 4.1**  
**Emergency Organization Activation**

RP/0/A/5000/004  
Page 2 of 2

4. For drills or emergencies, activate the ERO pagers using a Touch Tone phone as follows:

\_\_\_\_\_ 4.1 Dial 8-777-8376.

\_\_\_\_\_ 4.2 When prompted, enter the numeric password 2580.

\_\_\_\_\_ 4.3 When prompted, enter the activation code 6789.

\_\_\_\_\_ 4.4 Monitor the pager located at the Quiktel key pad to verify proper ERO pager activation.

\_\_\_\_\_ 4.5 Go to Step 5.

5. Activate Automatic Dialing Call Back System (Community Alert Network)

<b>NOTE:</b> Back-up telephone number for Community Alert Network is 1-877-786-8478.
--

\_\_\_\_\_ 5.1 Dial 1-800-552-4226 (Hotline/Activation Line)

\_\_\_\_\_ 5.2 **IF** CAN is being activated for a **DRILL**, read one of the following messages depending on day and time.

**IF** Monday through Thursday between 0700 through 1730, read the following message:  
"This is \_\_\_\_\_ (name) \_\_\_\_\_ from Duke Power, Catawba. The Password is Catawba. Please run Catawba Day List message number 5. Please call me back to verify system operation at \_\_\_\_\_."

(Phone # in Simulator)

**IF** not Monday through Thursday between 0700 through 1730, read the following message:  
"This is \_\_\_\_\_ (name) \_\_\_\_\_ from Duke Power, Catawba. The Password is Catawba. Please run Catawba Night List message number 5. Please call me back to verify system operation at \_\_\_\_\_."

(Phone # in Simulator)

\_\_\_\_\_ 5.3 **IF** CAN is being activated for an **EMERGENCY**, read one of the following messages depending on day and time.

**IF** Monday through Thursday between 0700 through 1730, read the following message:  
"This is \_\_\_\_\_ (name) \_\_\_\_\_ from Duke Power, Catawba. The Password is Catawba. Please run Catawba Day List message number 6. Please call me back to verify system operation at (803) 831-7332."

**IF** not Monday through Thursday between 0700 through 1730, read the following message:  
"This is \_\_\_\_\_ (name) \_\_\_\_\_ from Duke Power, Catawba. The Password is Catawba. Please run Catawba Night List message number 6. Please call me back to verify system operation at (803) 831-7332."

Date  
Initial/Time

- \_\_\_\_\_ 1. The probability that plant conditions will continue to improve is evident.
- \_\_\_\_\_ 2. All emergency action level notifications have been completed.
- \_\_\_\_\_ 3. Emergency response facility staffing may be reduced.
- \_\_\_\_\_ 4. The criteria established for the emergency classification has been evaluated. Conditions warrant a lower emergency action level.
- \_\_\_\_\_ 5. The event related release of radioactive material to the environment is terminated.
- \_\_\_\_\_ 6. The control of any fire, flood, earthquake or similar emergency condition is acceptable.
- \_\_\_\_\_ 7. Any corrective actions specified by the Emergency Coordinator to place the plant in a safe condition have been completed and the plant has been placed in the appropriate operating mode.
- \_\_\_\_\_ 8. The Emergency Coordinator has evaluated the plant status with respect to the Emergency Action Levels and recommends downgrading the emergency classification.
- \_\_\_\_\_ 9. Emergency classification level downgraded to \_\_\_\_\_  
\_\_\_\_\_

**Enclosure 4.3**  
**Emergency Coordinator Turnover Form**

RP/0/A/5000/004  
Page 1 of 1

1. Plant Status:

Unit 1: \_\_\_\_\_

Unit 2: \_\_\_\_\_

2. Emergency Classification: \_\_\_\_\_

Time Declared: \_\_\_\_\_

3. Off-Site Agency Notifications Turnover to TSC Complete? \_\_\_\_\_ (Y/N)

4. Time Next Notification Due: \_\_\_\_\_

5. Significant Events:

\_\_\_\_\_ Radioactive Release  
Y/N

\_\_\_\_\_ Injured Personnel  
Y/N

\_\_\_\_\_ Other (Specify \_\_\_\_\_)  
Y/N

6. Protective Actions in Progress:

\_\_\_\_\_ Site Assembly (Time Initiated \_\_\_\_\_)  
Y/N

\_\_\_\_\_ Off-Site Protective Actions Recommended  
Y/N (List) \_\_\_\_\_

\_\_\_\_\_ Other (Specify \_\_\_\_\_)  
Y/N

7. Response Procedure In Progress: \_\_\_\_\_

RP \_\_\_\_\_ RP \_\_\_\_\_ RP \_\_\_\_\_

8. Actions in Progress:

\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_



Duke Power Company  
PROCEDURE PROCESS RECORD

(1) ID No. RP/OA/5000/005  
Revision No. 040

PREPARATION

(2) Station Catawba

(3) Procedure Title General Emergency

(4) Prepared By E. J. Biddle Date 3/10/02

- (5) Requires NSD 228 Applicability Determination?
- Yes (New procedure or revision with major changes)
  - No (Revision with minor changes)
  - No (To incorporate previously approved changes)

(6) Reviewed By GARY L MITCHELL (QR) Date 3-14-02  
 Cross-Disciplinary Review By J Baumgardner (Ops) (QR) NA Date 3-14-02  
 Reactivity Mgmt. Review By \_\_\_\_\_ (QR) NA EM Date 3-14-02  
 Mgmt. Involvement Review By \_\_\_\_\_ (Ops. Supt.) NA EM Date 3-14-02

(7) Additional Reviews  
 Reviewed By \_\_\_\_\_ Date \_\_\_\_\_  
 Reviewed By \_\_\_\_\_ Date \_\_\_\_\_

(8) Temporary Approval (if necessary)  
 By \_\_\_\_\_ (OSM/QR) Date \_\_\_\_\_  
 By \_\_\_\_\_ (QR) Date \_\_\_\_\_

(9) Approved By Richard L Swigart Date 3-14-02

PERFORMANCE (Compare with control copy every 14 calendar days while work is being performed.)

(10) Compared with Control Copy \_\_\_\_\_ Date \_\_\_\_\_  
 Compared with Control Copy \_\_\_\_\_ Date \_\_\_\_\_  
 Compared with Control Copy \_\_\_\_\_ Date \_\_\_\_\_

(11) Date(s) Performed \_\_\_\_\_  
 Work Order Number (WO#) \_\_\_\_\_

COMPLETION

- (12) Procedure Completion Verification:
- Yes  NA Check lists and/or blanks initialed, signed, dated, or filled in NA, as appropriate?
  - Yes  NA Required enclosures attached?
  - Yes  NA Data sheets attached, completed, dated, and signed?
  - Yes  NA Charts, graphs, etc. attached, dated, identified, and marked?
  - Yes  NA Procedure requirements met?

Verified By \_\_\_\_\_ Date \_\_\_\_\_

(13) Procedure Completion Approved \_\_\_\_\_ Date \_\_\_\_\_

(14) Remarks (Attach additional pages, if necessary)

Duke Power Company  
Catawba Nuclear Station

**General Emergency**

**Reference Use**

Procedure No.

RP/0/A/5000/005

Revision No.

040

Electronic Reference No.

CN005GNO

## General Emergency

### 1. Symptoms

- 1.1 Events are in process or have occurred which involve actual or imminent substantial core degradation or melting with potential for loss of containment integrity.

### 2. Immediate Actions

**NOTE:** Lines in left margin are for place keeping. Immediate actions may be performed simultaneously.

**IF** TSC, OSC and EOF have **NOT** been previously activated, notify the ERO to staff emergency response facilities by performing the following steps (A and B):

- \_\_\_\_\_ A. Notify site personnel to activate the TSC and OSC by making the following announcement **twice** over public address system:

*“This is the Operations Shift Manager. A General Emergency has been declared. Unit(s) \_\_\_\_\_ is (are) affected. Activate the TSC, OSC, and EOF.”*

- \_\_\_\_\_ B. Activate Emergency Response Organization by completing Enclosure 4.1 of this procedure.

\_\_\_\_\_ Make an immediate PROTECTIVE ACTION RECOMMENDATION (PAR) to be entered on Line 15 of the Emergency Notification Form. Determine PAR based on current lower tower wind speed (use upper tower wind speed if lower tower wind speed is not available) as below:

**WIND SPEED LESS THAN OR EQUAL TO 5 MPH**

Evacuate zones: A0, A1, B1, C1, D1, E1, F1

AND

Shelter in place zones: A2, A3, B2, C2, D2, E2, F2, F3

OR

**WIND SPEED GREATER THAN 5 MPH**

Evacuate two mile radius AND all affected zones 5 miles downwind AND shelter in place remaining 10 mile EPZ as shown on Enclosure 4.2, page 2 of 2.

\_\_\_\_ Notify off-site agencies within 15 minutes of Emergency declaration time using an Emergency Notification Form. Refer to one of the following procedures for instructions:

- RP/0/A/5000/006A, "Notifications to States and Counties from the Control Room"
- RP/0/A/5000/006B, "Notifications to States and Counties from the Technical Support Center"
- SR/0/B/2000/004, "Notifications to States and Counties from the Emergency Operations Facility"

\_\_\_\_ **IF** there is an indication of a radioactive release **AND** the TSC is not activated, contact RP shift to perform off-site dose assessment per HP/0/B/1009/26.

\_\_\_\_ **IF** a radioactive release or hazardous material spill is occurring or has occurred **AND** the TSC is not activated, contact Environmental Management (EM), ext. 3333, for assistance in reporting to state, local or federal authorities. After hours, contact the Environmental Duty person by phone or pager. **IF** no answer, page 8-777-3333 which will page all Environmental Management personnel.

\_\_\_\_ **IF** a Security Event exists, discuss the feasibility of conducting a Site Assembly with the Security Shift Supervisor at extension 5364.

**IF** a Site Assembly is not feasible per Security:

\_\_\_\_ Announce over the plant public address system **twice**:

*"This is the Operations Shift Manager. A security event is in progress. Do not move about the site. Remain at your present location until further notice. Report any suspicious activities to the CAS at extension 5364."*

\_\_\_\_ N/A the following two steps.

\_\_\_\_ Conduct a Site Assembly using RP/0/A/5000/010, "Conducting a Site Assembly or Preparing the Site for an Evacuation."

\_\_\_\_ Conduct a Site Evacuation using RP/0/A/5000/010, "Conducting a Site Assembly or Preparing the Site for an Evacuation."

\_\_\_\_ Notify the NRC using RP/0/B/5000/013, "NRC Notification Requirements." This notification should be made as quickly as possible but shall be made within one hour of the emergency declaration time.

\_\_\_\_\_ **IF** Emergency Response Data System (ERDS) transmission has not been initiated (Alert or SAE classification), initiate ERDS within 1 hour of initial Alert or higher declaration by performing the following:

\_\_\_\_\_ Type “ERDS” or select “Main,” then “General,” then “ERDS” on a Control Room OAC workstation connected to the affected unit’s OAC.

\_\_\_\_\_ Initiate ERDS transmission by depressing F1 or clicking “Activate.”

\_\_\_\_\_ **IF** ERDS transmission will not connect to the NRC, inform the NRC using ENS. The TSC Data Coordinator will troubleshoot and initiate ERDS transmission upon arrival in the TSC.

### 3. Subsequent Actions

<p><b>NOTE:</b> Subsequent Actions are not required to be followed in any particular sequence.</p>
--

\_\_\_\_\_ Ensure RP has dispatched On-Site and Off-Site Field Monitoring Teams with associated communications equipment per HP/0/B/1009/009, “Guidelines for Accident and Emergency Response.”

\_\_\_\_\_ Evaluate specific plant conditions, off-site dose projections, field monitoring team data, and assess need to update Protective Action Recommendations made to states and counties in previous notification. Refer to:

- Enclosure 4.3, page 1 of 3, Guidance for Subsequent Protective Actions, Subsequent Protective Action Recommendation Flowchart
- Enclosure 4.4, Evacuation Time Estimates for Catawba Plume Exposure EPZ.

\_\_\_\_\_ Make follow-up notifications to state and county authorities:

- Every hour until the emergency is terminated

**OR**

- If there is any significant change to the situation

**OR**

- As agreed upon with an Emergency Management official from each individual agency

\_\_\_\_\_ RP/0/A/5000/018, “Emergency Worker Dose Extension,” shall be used to authorize emergency worker doses expected to exceed normal occupational exposure limits during a declared emergency event or exceed blanket dose extension limits authorized by the Radiation Protection Manager.

\_\_\_\_\_ Augment shift resources to assess and respond to the emergency situation as needed.

\_\_\_\_\_ Announce over the plant public address system the current emergency classification level and summary of plant status.

\_\_\_\_\_ Assess the emergency conditions and the corresponding emergency classification. See RP/0/A/5000/001, "Classification of Emergency," then:

Remain in a General Emergency

**OR**

Terminate the emergency (Refer to RP/0/A/5000/020 or SR/0/B/2000/003 for Termination Criteria).

- Announce any emergency classification level changes over the plant public address system, including a summary of plant status.

\_\_\_\_\_ **IF** Security Event announcement, discussed above, was made over the public address system, conduct a Site Assembly and Site Evacuation using RP/0/A/5000/010, "Conducting a Site Assembly or Preparing the Site for an Evacuation," and make the following announcement over the public address system **twice** after the Security Event has been terminated:

*"This is the Operations Shift Manager. The Security Event has been terminated. Proceed to your Site Assembly point."*

\_\_\_\_\_ Provide turnover to TSC Emergency Coordinator using Enclosure 4.5.

\_\_\_\_\_ In the event that a worker's behavior or actions contributed to an actual or potential substantial degradation of the level of safety of the plant (incidents resulting in an Alert or higher emergency declaration), the supervisor must consider and establish whether or not a for cause drug/alcohol screen is required. The FFD Program Administrator is available to discuss/assist with the incident.

\_\_\_\_\_ EOF Director will terminate the emergency and recommend entry into Recovery by briefing the off-site authorities at the Emergency Operations Facility or if necessary by phone. Document the termination briefing using Enclosure 4.6.

\_\_\_\_\_ The EOF Director shall assign an individual to provide a written report within thirty days. This report could be an LER or a written report if an LER is not required.

Person Assigned Responsibility \_\_\_\_\_

#### 4. Enclosures

- 4.1 Emergency Organization Activation
- 4.2 Mile Emergency Planning Zone (EPZ) Map and Protective Action Zone Determination Tables
- 4.3 Guidance for Subsequent Protective Actions
  - Page 1 of 3, Subsequent Protective Action Recommendation Flowchart
  - Page 2 of 3, Guidance for Determination of GAP Activity
  - Page 3 of 3, Protective Action Guides For Large Fission Product Inventory Greater Than Gap Activity In containment
- 4.4 Evacuation Time Estimates for Catawba Plume Exposure EPZ
- 4.5 Emergency Coordinator Turnover Form
- 4.6 General Emergency Termination Briefing with States and Counties

**Enclosure 4.1**  
**Emergency Organization Activation**

RP/0/A/5000/005  
Page 1 of 2

- .NOTE:**
1. Quiktel key pads for pager activation are located in the Control Room (behind MC14) and in the TSC (in Offsite Agency Communicator's cubicle).
  2. Pager activation can be delayed up to 5 minutes depending on pager system status.

1. **IF** the Quiktel key pads used in step 3 are not available or do not function properly, immediately go to step 4.

2. Assure confirmation pagers are turned on.

3. Activate the ERO pagers at a Quiktel key pad as follows:

\_\_\_\_\_ 3.1 Press the <EXIT> key to assure key pad is cleared.

\_\_\_\_\_ 3.2 Type "ERO"

\_\_\_\_\_ 3.3 Press <ENTER>

\_\_\_\_\_ 3.4 Press "M" (for Message)

\_\_\_\_\_ 3.5 **IF** activation is for an **actual emergency**, perform the following:

\_\_\_\_\_ 3.5.1 Type the following message:

**"Catawba Emergency. A General Emergency was declared at \_\_\_\_ (time).  
Activate the TSC, OSC and EOF."**

\_\_\_\_\_ 3.5.2 Press <ENTER>

\_\_\_\_\_ 3.5.3 Monitor the confirmation pagers located at the Quiktel key pad to verify proper ERO pager activation.

\_\_\_\_\_ 3.5.4 **IF** pager activation is successful, go to step 5.

\_\_\_\_\_ 3.6 **IF** activation is for an **ERO drill**, perform the following:

\_\_\_\_\_ 3.6.1 Type the following message:

**"Catawba Drill. A General Emergency was declared at \_\_\_\_\_ (time).  
Activate the TSC, OSC and EOF."**

\_\_\_\_\_ 3.6.2 Press "ENTER"

\_\_\_\_\_ 3.6.3 Monitor the confirmation pager located at the Quiktel key pad to verify proper ERO pager activation.

\_\_\_\_\_ 3.6.4 **IF** pager activation is successful, go to step 5.

**Enclosure 4.1**  
**Emergency Organization Activation**

RP/0/A/5000/005  
Page 2 of 2

4. For drills or emergencies, activate the ERO pagers using a Touch Tone phone as follows:

- \_\_\_ 4.1 **Dial 8-777-8376.**
- \_\_\_ 4.2 When prompted, enter the numeric password **2580**.
- \_\_\_ 4.3 When prompted, enter the activation code **6789**.
- \_\_\_ 4.4 Monitor the pager located at the Quiktel key pad to verify proper ERO pager activation.
- \_\_\_ 4.5 Go to Step 5.

5. Activate Automatic Dialing Call Back System (Community Alert Network)

<b>NOTE:</b> Back-up telephone number for Community Alert Network is 1-877-786-8478.
--

- \_\_\_ 5.1 Dial 1-800-552-4226 (Hotline/Activation Line)
- \_\_\_ 5.2 **IF** CAN is being activated for a **DRILL**, read one of the following messages depending on day and time.

**IF** Monday through Thursday between 0700 through 1730, read the following message:  
"This is \_\_\_\_\_ (name) \_\_\_\_\_ from Duke Power, Catawba. The Password is Catawba. Please run Catawba Day List message number 5. Please call me back to verify system operation at \_\_\_\_\_."  
(Phone # in Simulator)

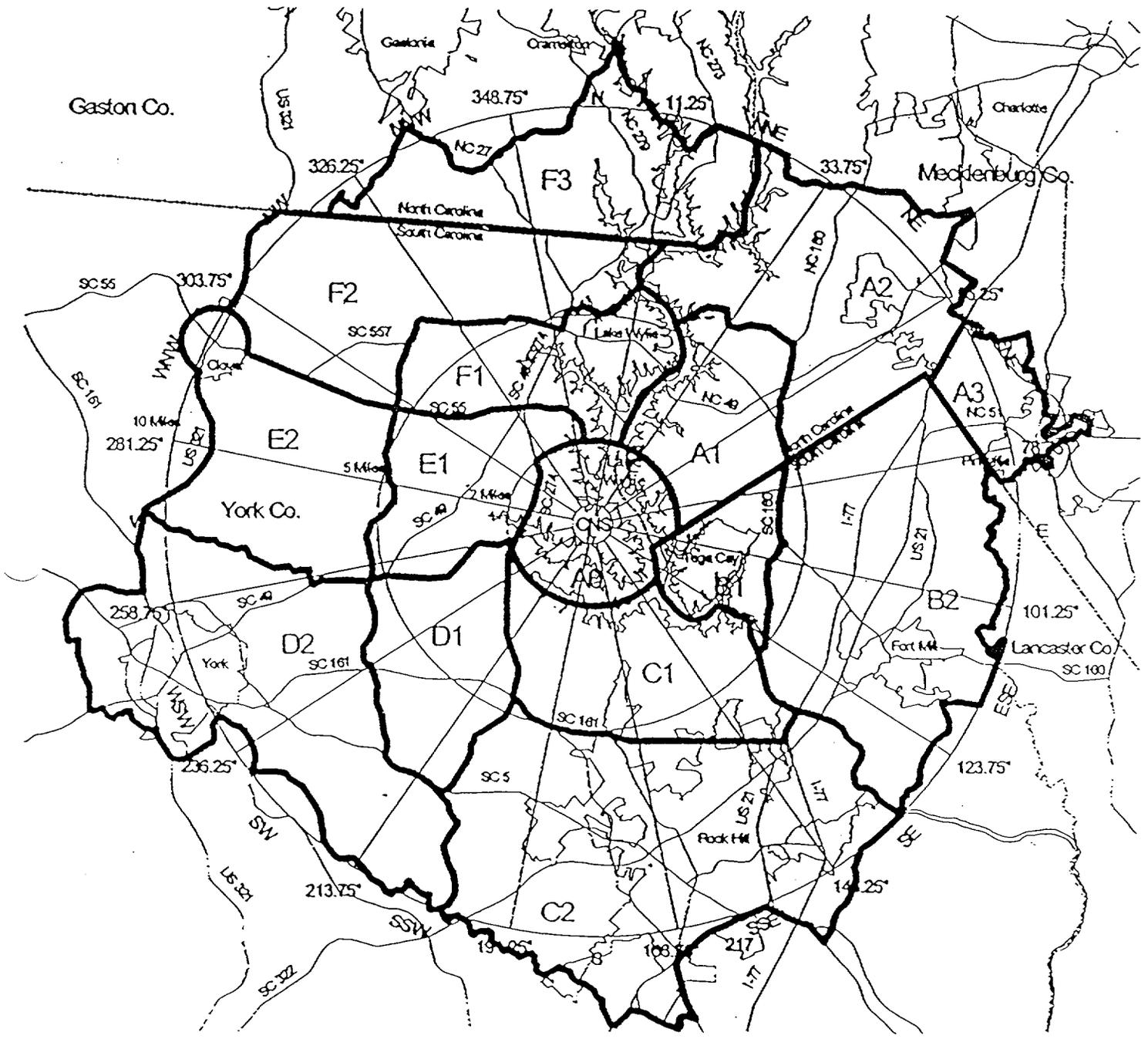
**IF** not Monday through Thursday between 0700 through 1730, read the following message:  
"This is \_\_\_\_\_ (name) \_\_\_\_\_ from Duke Power, Catawba. The Password is Catawba. Please run Catawba Night List message number 5. Please call me back to verify system operation at \_\_\_\_\_."  
(Phone # in Simulator)

- \_\_\_ 5.3 **IF** CAN is being activated for an **EMERGENCY**, read one of the following messages depending on day and time.

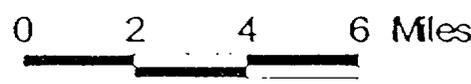
**IF** Monday through Thursday between 0700 through 1730, read the following message:  
"This is \_\_\_\_\_ (name) \_\_\_\_\_ from Duke Power, Catawba. The Password is Catawba. Please run Catawba Day List message number 6. Please call me back to verify system operation at (803) 831-7332."

**IF** not Monday through Thursday between 0700 through 1730, read the following message:  
"This is \_\_\_\_\_ (name) \_\_\_\_\_ from Duke Power, Catawba. The Password is Catawba. Please run Catawba Night List message number 6. Please call me back to verify system operation at (803) 831-7332."

10 Mile Emergency Planning Zone (EPZ) Map  
and Protective Action Zone Determination Tables



— Zone or EPZ Boundary  
and Zone Numbers



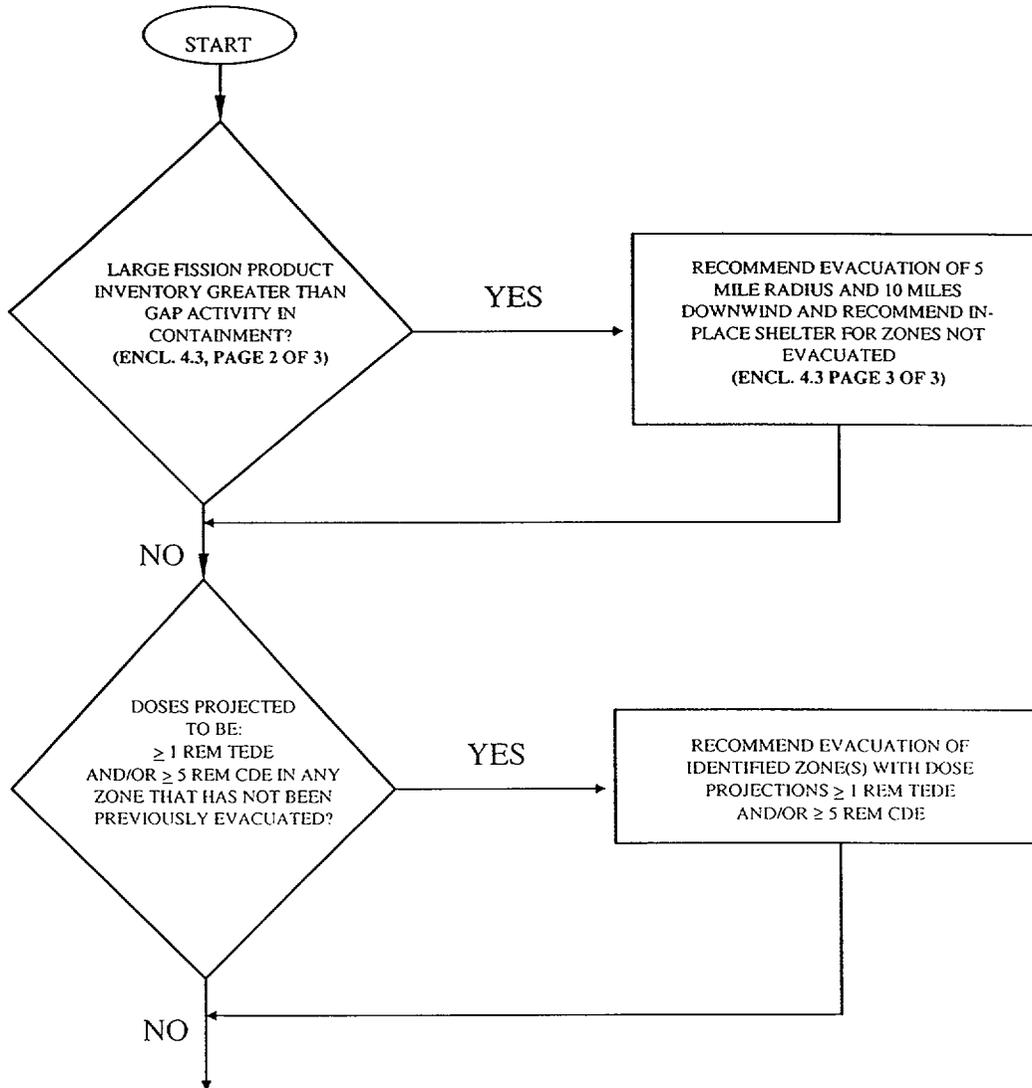
**10 Mile Emergency Planning Zone (EPZ) Map  
and Protective Action Zone Determination Tables**

Use this table to determine the recommended zones for evacuation within the:  
**2 mile radius and 5 miles downwind, when the windspeed is greater than 5 mph.**

- NOTE:**
1. *Upper tower wind direction is preferred. If not available, use lower tower wind direction. Use wind direction from National Weather Service if site meteorological information is not available. NWS: Primary: 1-800-268-7785 Backup: 864-879-1085.*
  2. *Wind direction indicator in Control Room has a scale of 0 to 360 degrees. Both 0 and 360 degrees indicate North.*
  3. *Subtract 360 from wind direction indications greater than 360 degrees to arrive at wind direction for table below.*

<b>PROTECTIVE ACTION ZONES DETERMINATION TABLE</b>		
<b>Wind Direction (Degrees from North)</b>	<b>2 Mile Radius - 5 miles Downwind</b>	<b>Remainder of EPZ</b>
(See Notes 2 & 3)	<b>EVACUATE</b>	<b>IN-PLACE SHELTER</b>
348.75 - 11.25	A0, B1, C1, D1	A1, A2, A3, B2, C2, D2, E1, E2, F1, F2, F3
11.26 - 33.75	A0, C1, D1	A1, A2, A3, B1, B2, C2, D2, E1, E2, F1, F2, F3
33.76 - 56.25	A0, C1, D1, E1	A1, A2, A3, B1, B2, C2, D2, E2, F1, F2, F3
56.26 - 78.75	A0, C1, D1, E1, F1	A1, A2, A3, B1, B2, C2, D2, E2, F2, F3
78.76 - 101.25	A0, C1, D1, E1, F1	A1, A2, A3, B1, B2, C2, D2, E2, F2, F3
101.26 - 123.75	A0, D1, E1, F1	A1, A2, A3, B1, B2, C1, C2, D2, E2, F2, F3
123.76 - 146.25	A0, E1, F1	A1, A2, A3, B1, B2, C1, C2, D1, D2, E2, F2, F3
146.26 - 168.75	A0, A1, E1, F1	A2, A3, B1, B2, C1, C2, D1, D2, E2, F2, F3
168.76 - 191.25	A0, A1, E1, F1	A2, A3, B1, B2, C1, C2, D1, D2, E2, F2, F3
191.26 - 213.75	A0, A1, B1, E1, F1	A2, A3, B2, C1, C2, D1, D2, E2, F2, F3
213.76 - 236.25	A0, A1, B1, F1	A2, A3, B2, C1, C2, D1, D2, E1, E2, F2, F3
236.26 - 258.75	A0, A1, B1, F1	A2, A3, B2, C1, C2, D1, D2, E1, E2, F2, F3
258.76 - 281.25	A0, A1, B1, C1	A2, A3, B2, C2, D1, D2, E1, E2, F1, F2, F3
281.26 - 303.75	A0, A1, B1, C1	A2, A3, B2, C2, D1, D2, E1, E2, F1, F2, F3
303.76 - 326.25	A0, B1, C1	A1, A2, A3, B2, C2, D1, D2, E1, E2, F1, F2, F3
326.26 - 348.74	A0, B1, C1, D1	A1, A2, A3, B2, C2, D2, E1, E2, F1, F2, F3

Guidance for Subsequent Protective Actions  
 Subsequent Protective Action  
 Recommendation Flowchart



CONTINUE ASSESSMENT OF LARGE FISSION PRODUCT INVENTORY IN CONTAINMENT, DOSE PROJECTION CALCULATIONS, WIND SPEED AND WIND DIRECTION TO DETERMINE IF ADDITIONAL ZONES SHOULD BE RECOMMENDED FOR EVACUATION.

**NOTE:** CHANGES IN WIND SPEED AND/OR WIND DIRECTION MAY REQUIRE THAT ADDITIONAL ZONES BE RECOMMENDED FOR EVACUATION. THESE ADDITIONAL RECOMMENDATIONS ARE BASED ON THE FOLLOWING:

- **IF** WIND SPEED IS LESS THAN OR EQUAL TO 5 MPH **AND** LARGE FISSION PRODUCT INVENTORY IS LESS THAN GAP ACTIVITY IN CONTAINMENT, RECOMMEND EVACUATION OF ZONES A0, A1, B1, C1, D1, E1, AND F1 IF NOT PREVIOUSLY RECOMMENDED FOR EVACUATION
- **IF** WIND SPEED IS GREATER THAN 5 MPH **AND** LARGE FISSION PRODUCT INVENTORY IS LESS THAN GAP ACTIVITY IN CONTAINMENT, USE ENCLOSURE 4.2 PAGE 2 OF 2 TO DETERMINE IF EVACUATION OF ADDITIONAL ZONES SHOULD BE RECOMMENDED
- **IF** LARGE FISSION PRODUCT INVENTORY IS GREATER THAN GAP ACTIVITY IN CONTAINMENT, USE ENCLOSURE 4.3 PAGE 3 OF 3 TO DETERMINE IF EVACUATION OF ADDITIONAL ZONES SHOULD BE RECOMMENDED

## Guidance for Determination of Gap Activity

Fission product inventory inside Containment is greater than gap activity if the containment radiation level exceeds the levels in the table below:

TIME AFTER SHUTDOWN (HOURS)	HIGH RANGE CONTAINMENT MONITOR READING - EMF 53A and/or EMF 53B <i>100 % Gap Activity Release</i>
0 - 2	864 R/Hr
2 - 4	624 R/Hr
4 - 8	450 R/Hr
>8	265 R/Hr

+

**This Table Only Used For Large Fission Product Inventory Greater Than Gap Activity In Containment.**

Use this table to determine the recommended zones for evacuation within the:

**5 mile radius and 10 miles downwind for any windspeed.**

- NOTE: 1.** Upper tower wind direction is preferred. If not available, use lower tower wind direction. Use wind direction from National Weather Service if site meteorological information is not available. NWS: Primary: 1-800-268-7785 Backup: 864-879-1085.
- 2.** Wind direction indicator in Control Room has a scale of 0 to 540 degrees. Both 0 and 360 degrees indicate North.
- 3.** Subtract 360 from wind direction indications greater than 360 degrees to arrive at wind direction for table below.

<b>PROTECTIVE ACTION ZONES DETERMINATION TABLE</b>		
<b>Wind Direction (Degrees from North)</b>	<b>5 Mile Radius - 10 miles Downwind</b>	<b>Remainder of EPZ</b>
(See Notes 2 & 3)	<i>EVACUATE</i>	<i>IN-PLACE SHELTER</i>
348.75 -11.25	A0, A1, B1, B2, C1, C2, D1, D2, E1, F1	A2, A3, E2, F2, F3
11.26 -33.75	A0, A1, B1, C1, C2, D1, D2, E1, F1	A2, A3, B2, E2, F2, F3
33.76 -56.25	A0, A1, B1, C1, C2, D1, D2, E1, E2, F1	A2, A3, B2, F2, F3,
56.26 -78.75	A0, A1, B1, C1, C2, D1, D2, E1, E2, F1, F2	A2, A3, B2, F3
78.76 -101.25	A0, A1, B1, C1, D1, D2, E1, E2, F1, F2	A2, A3, B2, C2, F3,
101.26 -123.75	A0, A1, B1, C1, D1, D2, E1, E2, F1, F2, F3	A2, A3, B2, C2
123.76 -146.25	A0, A1, B1, C1, D1, E1, E2, F1, F2, F3	A2, A3, B2, C2, D2
146.26 -168.75	A0, A1, A2, B1, C1, D1, E1, E2, F1, F2, F3	A3, B2, C2, E2
168.76 -191.25	A0, A1, A2, B1, C1, D1, E1, F1, F2, F3	A3, B2, C2, D2, E2
191.26 -213.75	A0, A1, A2, A3, B1, B2, C1, D1, E1, F1, F2, F3	C2, D2, E2
213.76 -236.25	A0, A1, A2, A3, B1, B2, C1, D1, E1, F1, F2, F3	C2, D2, E2
236.26 -258.75	A0, A1, A2, A3, B1, B2, C1, D1, E1, F1, F3	C2, D2, E2, F2
258.76 -281.25	A0, A1, A2, A3, B1, B2, C1, C2, D1, E1, F1	D2, E2, F2, F3
281.26 -303.75	A0, A1, A2, A3, B1, B2, C1, C2, D1, E1, F1	D2, E2, F2, F3
303.76 -326.25	A0, A1, A3, B1, B2, C1, C2, D1, E1, F1	A2, D2, E2, F2, F3
326.26 -348.74	A0, A1, B1, B2, C1, C2, D1, D2, E1, F1	A2, A3, E2, F2, F3

Evacuation Time Estimates for Catawba Plume Exposure EPZ

Analysis Case	Approx. Distance (Miles)	Approx. Direction	Subareas Included	Evacuation Time (Minutes) <sup>3</sup>					
				Fair Weather			Adverse Weather		
				Winter Weekday	Winter Weeknight	Summer Weekend	Winter Weekday	Winter Weeknight	Summer Weekend
1	0 - 2	180°, E	A-0 <sup>1</sup>	210	180	180	210	180	180
2	0 - 2	180°, W	A-0 <sup>2</sup>	210	180	180	210	180	180
3	0 - 5	90°, NE	A-0 <sup>1</sup> , A-1	210	180	180	210	180	180
4	0 - 5	90°, SE	A-0 <sup>1</sup> , B-1, C-1	220	200	200	240	200	205
5	0 - 5	90°, NW	A-0 <sup>2</sup> , E-1, F-1	220	200	200	240	200	205
6	0 - 5	90°, SW	A-0 <sup>2</sup> , D-1	220	200	200	240	200	205
7	0 - 10	90°, NE	A-0 <sup>1</sup> , A-1, A-2, A-3	210	180	325	210	185	375
8	0 - 10	90°, SE	A-0 <sup>1</sup> , B-1, C-1, B-2, C-2	305	295	320	410	400	360
9	0 - 10	90°, NW	A-0 <sup>2</sup> , E-1, F-1, E-2, F-2, F-3	240	200	220	260	240	225
10	0 - 10	90°, SW	A-0 <sup>2</sup> , D-1, D-2	240	220	220	280	240	240
11	0 - 10	360°	Entire EPZ- A-0 <sup>1</sup> , A-0 <sup>2</sup> , A-1, B-1, C-1, A-2, B-2, C-2, D-1, E-1, F-1, D-2, E-2, A-3, F-3	305	295	325	415	400	375

<sup>1</sup>Mecklenburg County portion of Subarea A-0.

<sup>2</sup>York County portion of Subarea A-0.

<sup>3</sup>Includes times associated with notification, preparation and travel out of the EPZ area, rounded to nearest 5-minute interval.

<sup>4</sup>Reduction in roadway capacities and travel speeds of 20% for summer weekend conditions (rain), 30% for winter weekday and winter weeknight conditions (ice).

\* Evacuation of outdoor transient facilities throughout the entire EPZ is included in all evacuation cases, per the offsite RERP's.

Emergency Coordinator Turnover Form

1. Plant Status:

Unit 1: \_\_\_\_\_

\_\_\_\_\_

Unit 2: \_\_\_\_\_

\_\_\_\_\_

2. Emergency Classification: \_\_\_\_\_

Time Declared: \_\_\_\_\_

3. Off-Site Agency Notifications Turnover to TSC Complete? \_\_\_\_ (Y/N)

4. Time Next Notification Due: \_\_\_\_\_

5. Significant Events:

\_\_\_\_\_ Radioactive Release

Y/N

\_\_\_\_\_ Injured Personnel

Y/N

\_\_\_\_\_ Other (Specify \_\_)

Y/N

6. Protective Actions in Progress:

\_\_\_\_\_ Site Assembly (Time Initiated \_\_\_\_\_)

Y/N

\_\_\_\_\_ Off-Site Protective Actions Recommended

Y/N (List) \_\_\_\_\_

\_\_\_\_\_ Other (Specify \_\_\_\_\_)

Y/N

7. Response Procedure In Progress: \_\_\_\_\_

RP \_\_\_\_\_ RP \_\_\_\_\_ RP \_\_\_\_\_

8. Actions in Progress:

\_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

**Enclosure 4.6**  
**General Emergency Termination Briefing**  
**with States and Counties**

RP/0/A/5000/005  
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1. Plant Status:

Unit 1: \_\_\_\_\_  
\_\_\_\_\_

Unit 2: \_\_\_\_\_  
\_\_\_\_\_

2. Emergency Classification: \_\_\_\_\_

Time Declared: \_\_\_\_\_

3. Off-Site Agency Notifications Turnover to TSC Complete? \_\_\_\_\_(Y/N)

4. Time Next Notification Due: \_\_\_\_\_

5. Significant Events:

\_\_\_\_\_ Radioactive Release  
Y/N

\_\_\_\_\_ Injured Personnel  
Y/N

\_\_\_\_\_ Other (Specify \_\_\_\_\_)  
Y/N

6. Protective Actions in Progress:

\_\_\_\_\_ Site Assembly (Time Initiated \_\_\_\_\_)  
Y/N

\_\_\_\_\_ Off-Site Protective Actions Recommended  
Y/N (List) \_\_\_\_\_

\_\_\_\_\_ Other (Specify \_\_\_\_\_)  
Y/N

7. Response Procedure In Progress: \_\_\_\_\_

RP \_\_\_\_\_ RP \_\_\_\_\_ RP \_\_\_\_\_

8. Actions in Progress:

\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_