



Gary R. Peterson  
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February 6, 2001

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:

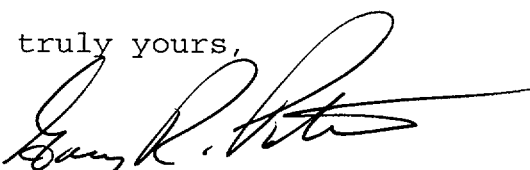
RP/0/A/5000/007, Natural Disaster and Earthquake (Rev. 020)  
RP/0/B/5000/008, Spill Response (Rev. 018)  
RP/0/A/5000/009, Collision/Explosion (Rev. 006)  
RP/0/B/5000/013, NRC Notification Requirements (Rev. 027)  
RP/0/B/5000/026, Response to Bomb Threat (Rev. 002)

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  
February 6, 2001  
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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. 013)
RP/0/A/5000/002	Notification of Unusual Event (Rev. 035)
RP/0/A/5000/003	Alert (Rev. 037)
RP/0/A/5000/004	Site Area Emergency (Rev. 039)
RP/0/A/5000/005	General Emergency (Rev. 039)
RP/0/A/5000/06	Deleted
RP/0/A/5000/006 A	Notifications to States and Counties from the Control Room (Rev. 012)
RP/0/A/5000/006 B	Notifications to States and Counties from the Technical Support Center (Rev. 011)
RP/0/A/5000/006 C	Deleted
RP/0/A/5000/007	Natural Disaster and Earthquake (Rev. 020)
RP/0/A/5000/08	Deleted
RP/0/B/5000/008	Spill Response (Rev. 018)
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. 013)
RP/0/A/5000/11	Deleted
RP/0/B/5000/12	Deleted
RP/0/B/5000/013	NRC Notification Requirements (Rev. 027)
RP/0/B/5000/14	Deleted
RP/0/A/5000/015	Core Damage Assessment (Rev. 004)
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. 014)
RP/0/A/5000/021	Deleted
RP/0/B/5000/022	Evacuation Coordinator Procedure (Rev. 003)
RP/0/B/5000/023	Deleted
RP/0/A/5000/024	OSC Activation Procedure (Rev. 007)
RP/0/B/5000/025	Recovery and Reentry Procedure (Rev. 002)
RP/0/B/5000/026	Response to Bomb Threat (Rev. 002)
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. 007)
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. 027)
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. 018)
HP/0/B/1009/008	Contamination Control of Injured Individuals (Rev. 015)
HP/0/B/1009/009	Guidelines for Accident and Emergency Response (Rev. 038)
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	Post-Accident Containment Air Sampling System (Rev. 001)
HP/2/B/1009/017	Post-Accident Containment Air Sampling System (Rev. 000)
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)

January 23, 2001

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. 002)
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. 001)
OP/0/A/6200/021	Operating Procedure for Post Accident Liquid Sampling System II+ (Rev. 032)
SR/0/B/2000/001	Standard Procedure for Public Affairs Response to the Emergency Operations Facility (Rev. 002)
SR/0/B/2000/002	Standard Procedure for EOF Commodities and Facilities (Rev. 001)
SR/0/B/2000/003	Activation of the Emergency Operations Facility (Rev. 006)
SR/0/B/2000/004	Notification to States and Counties from the Emergency Operations Facility (Rev. 001)

# Duke Power Company

## PROCEDURE PROCESS RECORD

(1) ID No. RP/0/A/5000/007Revision No. 020**PREPARATION**(2) Station Catawba Nuclear Station(3) Procedure Title Natural Disaster and Earthquake(4) Prepared By E. T. Bender Date 1/19/2001

(5) Requires 10CFR50.59 evaluation?

☒ Yes (New procedure or reissue with major changes)☐ No (Revision with minor changes)☐ No (To incorporate previously approved changes)(6) Reviewed By GARY L MITCHELL (QR) Date 01/21/01Cross-Disciplinary Review By GARY B. PUGH (CPS) (QR) NA          Date 1-22-2001Reactivity Mgmt. Review By          (QR) NA GLM Date 01/21/01

(7) Additional Reviews

Reviewed By          Date         Reviewed By          Date         

(8) Temporary Approval (if necessary)

By          (SRO/QR) Date         By          (QR) Date         (9) APPROVED BY Richard L Swigart Date 01/22/01**PERFORMANCE** (Compare with control copy at least once 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) Dates(s) Performed         Work Order Number (W/O #)         **COMPLETION**

(12) Procedure Completion Verification

☐ Yes ☐ N/A Check lists and/or blanks properly initialed, signed, dated, or filled in NA, as appropriate?☐ Yes ☐ N/A Listed enclosures attached?☐ Yes ☐ N/A Data sheets attached, completed, dated and signed?☐ Yes ☐ N/A Charts, graphs, etc. attached and properly dated, identified and marked?☐ Yes ☐ N/A Procedure requirements met?Verified By          Date         (13) Procedure Completion Approved          Date         

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

<b>Duke Power Company</b> <b>Catawba Nuclear Station</b>  <b>Natural Disaster and Earthquake</b>   <b>Multiple Use</b>	Procedure No. <b>RP/0/A/5000/007</b>
	Revision No. 020
	Electronic Reference No. CN005GNT



## Natural Disaster and Earthquake

### 1. Symptoms

**NOTE:** The Duke Power Company System Coordinator will notify the Control Room for all severe weather warnings issued for York County. The Control Room is also provided with a NOAA radio.

- 1.1 Tornado watch issued for York County
- 1.2 Tornado warning issued for York County **OR** tornado on-site
- 1.3 Hurricane winds are expected on-site within 12 hours
- 1.4 Earthquake is detected by instrumentation or felt in plant
  - 1.4.1 Seismic event alarm SMA-3 on 1MC8
  - 1.4.2 OBE EXCEEDED alarm on 1AD-4, B/8
  - 1.4.3 Light on Peak Shock Annunciator PSA-1575 on 1MC8
  - 1.4.4 Effects of an earthquake are seen, felt or heard.
- 1.5 Flooding due to high lake level (lake elevation > 593.5 Mean Sea Level (MSL)) or seiche (lake tidal wave).
- 1.6 Low lake level (lake elevation < 557.5 Ft. MSL)

### 2. Immediate Actions

- \_\_\_\_\_ 2.1 **IF** a tornado watch has been issued for York County, perform Enclosure 4.1.
- \_\_\_\_\_ 2.2 **IF** a tornado warning has been issued for York County **OR** tornado on-site, perform Enclosure 4.2.
- \_\_\_\_\_ 2.3 **IF** Hurricane winds are expected on-site within 12 hours, perform Enclosure 4.3.
- \_\_\_\_\_ 2.4 **IF** an Earthquake is detected by instrumentation **OR** felt in plant, perform Enclosure 4.4.
- \_\_\_\_\_ 2.5 **IF** flooding due to high lake level (lake elevation > 593.5 MSL) or seiche (lake tidal wave), perform Enclosure 4.5.
- \_\_\_\_\_ 2.6 **IF** low lake level (lake elevation < 557.5 Ft. MSL), perform Enclosure 4.6.

### 3. Subsequent Actions

- \_\_\_\_\_ 3.1 **IF** communications are lost or communications trouble is encountered, refer to the Emergency Response Telephone Directory.
- \_\_\_\_\_ 3.2 Contact the Catawba Nuclear Site NRC Resident Inspector (duty person) anytime this procedure is entered.

### 4. Enclosures

- 4.1 Tornado Watch Issued For York County
- 4.2 Tornado Warning Issued For York County **OR** Tornado On-site
- 4.3 Hurricane Winds Are Expected On-site Within 12 Hours
- 4.4 Earthquake
- 4.5 Flooding Due to High Lake Level (Lake Elevation > 593.5 MSL) **OR** Seiche (Lake Tidal Wave)
- 4.6 Low Lake Level (Lake Elevation < 557.5 Ft. MSL)
- 4.7 Courtesy Notification to States and Counties for a Non-emergency Plant Event

## 1. Immediate Actions

- NOTE:**
1. A tornado watch indicates conditions are favorable for a tornado to occur.
  2. Wind speed information > 90 mph shall be obtained from the National Weather Service located in Greenville/Spartanburg, S.C. at 1-800-268-7785 or 1-864-879-1085 (unpublished).
  3. Immediate Actions may be performed simultaneously.

\_\_\_\_\_ 1.1 Announce the following over the PA System: \_\_\_\_\_

“Attention all plant personnel. Attention all plant personnel. This is the Operations Shift Manager. A tornado watch has been issued for York County. Be prepared to take shelter should a tornado develop on site. Further updates will be provided as conditions warrant.”

**NOTE:** Further determination should be made for system(s) required to be shut down by this response procedure but required to be operating by a compensatory action item.

\_\_\_\_\_ 1.2 Refer to the Open Compensatory Action Items and review for applicability.

\_\_\_\_\_ 1.3 Evaluate implementation of the following:

- \_\_\_\_\_ 1.3.1 Contact Security and verify that exterior doors are being closed per Security procedures.
- \_\_\_\_\_ 1.3.2 **IF** a personnel safety hazard does not exist due to lightning or high winds, the Shift Work Manager will utilize appropriate personnel to lower crane booms.
- \_\_\_\_\_ 1.3.3 Notify RP/Radwaste Chemistry to minimize all handling of radioactive materials and releases of radioactive waste to the environment for the duration of the tornado watch.
- \_\_\_\_\_ 1.3.4 **IF** RN swapover to the Standby Nuclear Service Water Pond has **NOT** occurred automatically on low low lake level of 557.5 ft. MSL, refer to AP/0/A/5500/020 (Loss of Nuclear Service Water).

\_\_\_\_\_ 1.4 **IF** any of the following activities are in progress **OR** are scheduled to begin within the time frame of the tornado watch, terminate the activity {PIP C99-03215}:

- \_\_\_\_\_ • NS pump tests
- \_\_\_\_\_ • NS heat exchanger tests
- \_\_\_\_\_ • FWST makeup to the Spent Fuel Pool

**Enclosure 4.1**  
**Tornado Watch Issued For York County**

RP/0/A/5000/007  
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## **2. Subsequent Actions**

### **2.1 Severe Weather Information/Forecast**

To obtain the latest severe weather information/forecast for York County, consult the National Weather Service located in Greenville/Spartanburg, S.C. at 1-800-268-7785 or 1-864-879-1085 (unpublished).

### **2.2 Meteorological Conditions**

As a backup to the Catawba site meteorological system (i.e., wind speed, wind direction, etc.), consult the National Weather Service located in Greenville/Spartanburg, S.C., at 1-800-268-7785 or 1-864-879-1085 (unpublished).

### **2.3 This procedure remains in effect until one of the following conditions are met:**

- Termination of tornado watch for York County by National Weather Service

**OR**

- Duke Power Meteorological Group (704-594-0341) verifies that a tornado threat to the Catawba Nuclear Site no longer exists.

**Tornado Warning Issued For York County  
OR Tornado On-Site****1. Immediate Actions**

- NOTE:**
1. Tornado warning indicates that an actual tornado has been reported to the National Weather Service (NWS) or has been sighted on radar.
  2. Wind speed information > 90 mph shall be obtained from the NWS located in Greenville/Spartanburg, S.C., at 1-800-268-7785 or 1-864-879-1085 (unpublished).
  3. Immediate Actions may be performed simultaneously.

- \_\_\_\_\_ 1.1 Should the sustained winds, lasting 15 minutes, in excess of 95 mph develop on site which jeopardize the safe operation of the reactor, take the unit(s) to Hot Standby (Mode 3). For the initiation of any unit shutdown, carry out the reporting provisions of RP/0/B/5000/013 (NRC Notification Requirements).
- \_\_\_\_\_ 1.2 Classify the emergency as appropriate per RP/0/A/5000/001 (Classification of Emergency).
- \_\_\_\_\_ 1.3 Commence notification and other protective measures as directed by appropriate Emergency Response Procedure.
- 1.4 Announce the following over the PA System:
- \_\_\_\_\_ • Tornado is not expected to pass over the site
- “Attention all plant personnel. Attention all plant personnel. This is the Operations Shift Manager. A tornado warning has been issued for York County from \_\_\_\_\_ to \_\_\_\_\_ hours. Be prepared to take shelter should a tornado develop on site. Further updates will be provided as conditions warrant.”
- \_\_\_\_\_ • Tornado is expected to pass over the site
- “Attention all plant personnel. Attention all plant personnel. This is the Operations Shift Manager. A tornado warning has been issued for York County. Take shelter immediately. Do not take shelter in temporary buildings or trailers. Further updates will be provided as conditions warrant.”

**Enclosure 4.2**  
**Tornado Warning Issued For York County**  
**OR Tornado On-Site**

RP/0/A/5000/007  
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**NOTE:** Further determination should be made for system(s) required to be shut down by this response procedure but required to be operating by a compensatory action item.

- \_\_\_\_ 1.5 Refer to the Open Compensatory Action Items and review for applicability. Expedite the restoration of important plant systems and components.
- \_\_\_\_ 1.6 Review AP/1(2)/A/5500/007 (Loss of Normal Power), EP/1(2)/A/5000/ECA-0.0 (Loss of All AC Power), and OP/0/B/6100/013 (Standby Shutdown Facility Operation). Take the necessary actions to ensure equipment required for station blackout response is available.
- 1.7 Ensure the following steps have been performed:
  - 1.7.1 Notify Security to perform the following actions per Security procedures:
    - \_\_\_\_ • Close all exterior doors
    - \_\_\_\_ • Close and latch tornado door S303A (access to SPA, 574 elevation, Auxiliary Service Building) (mod CE-61506)
  - 1.7.2 **IF** any of the following activities are in progress **OR** are scheduled to begin within the time frame of the tornado warning, terminate the activity {PIP C99-03215}:
    - \_\_\_\_ • NS pump tests
    - \_\_\_\_ • NS heat exchanger tests
    - \_\_\_\_ • FWST makeup to the Spent Fuel Pool
  - \_\_\_\_ 1.7.3 **IF** a personnel safety hazard does not exist due to lightning or high winds, the Shift Work Manager will utilize appropriate personnel to lower crane booms.
  - \_\_\_\_ 1.7.4 Determine the status of the alternate AC sources (SSF Diesel) and take necessary actions to ensure its availability.
  - \_\_\_\_ 1.7.5 Coordinate with Chemistry to increase CACST, UST and hotwell inventories.
  - \_\_\_\_ 1.7.6 Coordinate with IAE to return to service any available out of service battery chargers.
  - \_\_\_\_ 1.7.7 Notify RP/Radwaste Chemistry to stop all handling of radioactive materials and releases of radioactive waste to the environment for the duration of the tornado warning.
  - \_\_\_\_ 1.7.8 Ensure fuel handling operations are stopped.

**Tornado Warning Issued For York County  
OR Tornado On-Site**

- \_\_\_\_\_ 1.7.9     **IF** lake level decreases to 557.5 feet MSL **AND** the RN System suction has **NOT** swapped to the Standby Nuclear Service Water Pond, refer to AP/0/A/5500/020 (Loss of Nuclear Service Water).
- 1.7.10     Ventilation Systems shall be aligned as follows:
- \_\_\_\_\_ A.     Ensure the VF Systems are shutdown per OP/1(2)/A/6450/004 (Fuel Pool Ventilation System).
- B.     Ensure the following ventilation systems are shut down:
- \_\_\_\_\_ •     VQ per OP/1(2)/A/6450/017 (Containment Air Release and Addition System)
- \_\_\_\_\_ •     VP per OP/1(2)/A/6450/015 (Containment Purge System)
- \_\_\_\_\_ •     VE per OP/1(2)/A/6450/002 (Annulus Ventilation System)
- \_\_\_\_\_ 1.7.11     Notify the responsible System Engineer on duty that all ventilation systems are being shut down, and they need to consider the possibility of condensation.
- 1.8     **IF** a tornado is reported on site property, perform the following steps:
- \_\_\_\_\_ 1.8.1     Ensure all VA System fans are off.

<b>NOTE:</b> The action taken in the next step causes the VA System to be inoperable. TS 3.0.3 is applicable on both units.
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- \_\_\_\_\_ 1.8.2     Depress the "INITIATE" pushbuttons on "TORNADO ISOL TRN A(B)" on 1MC-5 and 2MC-5 ensuring all automatic functions occur as expected.
- 1.8.3     **WHEN** conditions permit, coordinate a survey of plant structures and equipment (similar to normal daily rounds) to determine the extent of damage as follows:
- \_\_\_\_\_ A.     Notify personnel from IAE and Mechanical Maintenance to assist Operations in the evaluation of weather induced damage as necessary.
- \_\_\_\_\_ B.     Notify Radiation Protection personnel to survey the Reactor, Auxiliary and Fuel Pool Buildings to ensure shielding integrity.
- \_\_\_\_\_ C.     Notify Chemistry personnel to survey areas where damage may release dangerous chemicals (e.g. Sulfuric Acid Storage).
- \_\_\_\_\_ D.     Record the findings of the survey in the associated unit's Nuclear Shift Supervisor Log.

**Tornado Warning Issued For York County  
OR Tornado On-Site**

1.8.4 **IF** the survey identifies plant damage, perform the following:

\_\_\_\_\_ A. Determine the emergency classification for current plant conditions.

\_\_\_\_\_ B. Make required notifications

\_\_\_\_\_ C. Notify management of plant status and any potential for a unit shutdown.

\_\_\_\_\_ 1.8.5 **IF** an emergency has **NOT** been declared, notify York County Emergency Management about the event through the York County 911 Telecommunicator and as necessary, request emergency response support. {PIP 0-C00-01689}

**NOTE:**

1. A request for emergency response support (except an ambulance) from an off-site agency requires a 4-hour notification of the NRC as an "Off-site Notification" per RP/0/B/5000/013 (NRC Notification Requirements).
2. A request for ambulance support for a "contaminated injury" is an 8-hour notification and the request for transport of a "clean injury" does not require a NRC notification.

\_\_\_\_\_ 1.8.6 **IF** emergency response support from York County Emergency Management is requested **AND** an emergency has **NOT** been declared, notify the NRC under the 4-hour notification requirement for Off-site Notifications.



**Enclosure 4.2**  
**Tornado Warning Issued For York County**  
**OR Tornado On-Site**

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## **2. Subsequent Actions**

### **2.1 Severe Weather Information/Forecast**

To obtain the latest severe weather information/forecast for York County, consult the National Weather Service located in Greenville/Spartanburg, S.C. at 1-800-268-7785 or 1-864-879-1085 (unpublished).

### **2.2 Meteorological Conditions**

As a backup to the Catawba site meteorological system (i.e., wind speed, wind direction, etc.), consult the National Weather Service located in Greenville/Spartanburg, S.C. at 1-800-268-7785 or 1-864-879-1085 (unpublished).

### **\_\_\_\_\_ 2.3 Restore affected plant systems to normal operation per applicable site procedures**

### **2.4 IF an emergency has NOT been declared for this event AND the NRC has NOT been notified of this event, perform the following:**

#### **\_\_\_\_\_ 2.4.1 Notify the duty Emergency Planner.**

#### **\_\_\_\_\_ 2.4.2 Notify the Community Relations duty person.**

#### **\_\_\_\_\_ 2.4.3 Make a courtesy notification to the states and counties using Enclosure 4.7.**

**NOTE:** Permission for unit startup is required from FEMA/NRC after a plant shutdown due to a natural disaster that affects both the plant and the local government emergency response capability.

### **\_\_\_\_\_ 2.5 IF a unit restart is desired, consult site management for unit startup criteria.**

### **2.6 This procedure remains in effect until one of the following conditions are met:**

- \_\_\_\_\_ • Termination of tornado watch for York County by National Weather Service**

**OR**

- \_\_\_\_\_ • Duke Power Meteorological Group (704-594-0341) verifies that a tornado threat to the Catawba Nuclear Site no longer exists.**

## 1. Immediate Actions

- NOTE:**
1. Wind speed information > 90 mph shall be obtained from the National Weather Service (NWS) located in Greenville/Spartanburg, S.C. at 1-800-268-7785 or 1-864-879-1085 (unpublished).
  2. Immediate Actions may be performed simultaneously.
  3. Tornadoes often develop in the northeast quadrant of a hurricane.

1.1 Announce the following over the PA System:

"Attention all plant personnel. Attention all plant personnel. This is the Operations Shift Manager. Hurricane force winds are projected to be on site within 12 hours. Be prepared to take shelter should the hurricane force winds develop on site. Further updates will be provided as conditions warrant."

- NOTE:** Further determination should be made for system(s) required to be shut down by this response procedure but required to be operating by a compensatory action item.

1.2 Refer to the Open Compensatory Action Items and review for applicability. Expedite the restoration of important plant systems and components.

1.3 Review AP/1(2)/A/5500/007, (Loss of Normal Power), EP/1(2)/A/5000/ECA-0.0, (Loss of All AC Power) and OP/0/B/6100/013, (Standby Shutdown Facility Operation). Take the necessary actions to ensure equipment required for station blackout response is available.

- NOTE:**
1. Sustained winds (lasting 15 minutes) in excess of 73 mph is used as the indicator of the arrival of the hurricane on-site. As the hurricane moves across the site wind speeds could exceed the design basis wind speed of 95 mph.
  2. The Station Blackout rule applies when hurricanes affect nuclear stations and requires the units to be placed in Mode 3, two hours prior to the arrival of hurricane force winds on site.

1.4 Discuss with site management the timing and method for shutting down the plant so as to be in Hot Standby (Mode 3), two hours before the anticipated hurricane arrival at the site.

- NOTE:** Travel to the site could be restricted or prohibited based on the intensity and path of the storm.

1.5 Discuss with site management the potential for on-site 24-hour staffing for shift relief and Emergency Response Organization (ERO).

1.6 Determine the status of the alternate AC sources (SSF Diesel) and take necessary actions to ensure its availability.

## Hurricane Winds On-Site Within 12 Hours

- \_\_\_\_\_ 1.7 Coordinate with Chemistry to increase CACST, UST and hotwell inventories.
- \_\_\_\_\_ 1.8 Coordinate with IAE to return to service any available out of service battery chargers.
- \_\_\_\_\_ 1.9 **IF** a personnel safety hazard does not exist due to lightning or high winds, the Shift Work Manager will utilize appropriate personnel to lower crane booms.
- \_\_\_\_\_ 1.10 Evaluate running the Diesel Generators based on previous run history prior to the arrival of hurricane force winds on site.
- \_\_\_\_\_ 1.11 **IF** any of the following activities are in progress **OR** are scheduled to begin, terminate the activity {PIP C99-03215}:
  - NS pump tests
  - NS heat exchanger tests
  - FWST makeup to the Spent Fuel Pool

## 2. Subsequent Actions

- \_\_\_\_\_ 2.1 Shut down the unit(s) to be in Hot Standby (Mode 3) two hours prior to the arrival of hurricane force winds (sustained wind speeds, lasting 15 minutes, in excess of 73 mph). For the initiation of any unit shutdown, carry out the reporting provisions of RP/0/B/5000/013, (NRC Notification Requirements).
- 2.2 Complete the following steps prior to the arrival of hurricane force winds on site:
  - \_\_\_\_\_ 2.2.1 Notify RP/Radwaste Chemistry to stop all handling of radioactive materials and releases of radioactive waste to the environment for the duration of the hurricane.
  - \_\_\_\_\_ 2.2.2 Ensure fuel handling operations are stopped.
  - \_\_\_\_\_ 2.2.3 **IF** RN swapover to the Standby Nuclear Service Water Pond has **NOT** occurred automatically on low low lake level of 557.5 ft. MSL, refer to AP/0/A/5500/020 (Loss of RN System)
  - 2.2.4 Ventilation Systems shall be aligned as follows:
    - \_\_\_\_\_ A. Minimize releases from VQ System while controlling containment pressure throughout the emergency per OP/1(2)/A/6450/017 (Containment Air Release and Addition System).
    - B. Ensure the following ventilation systems are shut down:
      - \_\_\_\_\_ • VF per OP/1(2)/A/6450/004 (Fuel Pool Ventilation System)
      - \_\_\_\_\_ • VP per OP/1(2)/A/6450/015 (Containment Purge System)
      - \_\_\_\_\_ • VE per OP/1(2)/A/6450/002 (Annulus Ventilation System)

- \_\_\_\_\_ 2.2.5 Notify the responsible System Engineer on duty that VF, VP, and VE ventilation systems are being shut down, and they need to consider the possibility of condensation.

2.3 **IF** hurricane force winds are on site, perform the following steps:

- \_\_\_\_\_ 2.3.1 Ensure all VA fans are off.

**NOTE:** The action taken in the next step causes the VA system to be inoperable. TS 3.0.3 is applicable on both units

- \_\_\_\_\_ 2.3.2 - Depress the "INITIATE" pushbuttons on "TORNADO ISOL TRN A(B)" on 1MC-5 and 2MC-5 ensuring all automatic functions occur as expected.

- \_\_\_\_\_ 2.4 Classify the emergency as appropriate per RP/0/A/5000/001 (Classification of Emergency) and commence notification and other protective measures as directed by appropriate Emergency Response Procedure.

2.5 Severe Weather Information/Forecast

To obtain the latest severe weather information/forecast for York County, consult the National Weather Service located in Greenville/Spartanburg, S.C. at 1-800-268-7785 or 1-864-879-1085 (unpublished).

2.6 Meteorological Conditions

As a backup to the Catawba site meteorological system (i.e. wind speed, wind direction, etc.), consult the National Weather Service located in Greenville/Spartanburg, S.C. at 1-800-268-7785 or 1-864-879-1085 (unpublished).

2.7 **WHEN** conditions permit, coordinate a survey of plant structures and equipment to determine the extent of damage as follows:

- \_\_\_\_\_ 2.7.1 Notify personnel from IAE and Mechanical Maintenance to assist Operations in the evaluation of weather induced damage as necessary.

- \_\_\_\_\_ 2.7.2 Notify Radiation Protection personnel to survey the Reactor, Auxiliary and Fuel Pool Buildings to ensure shielding integrity.

- \_\_\_\_\_ 2.7.3 Notify Chemistry personnel to survey areas where damage may release dangerous chemicals (e.g. Sulfuric Acid Storage).

- \_\_\_\_\_ 2.7.4 Record the findings of the survey in the associated unit's Nuclear Shift Supervisor log.

## Hurricane Winds On-Site Within 12 Hours

2.8 **IF** the survey identifies plant damage, perform the following:

\_\_\_\_\_ 2.8.1 Determine the emergency classification for current plant conditions.

\_\_\_\_\_ 2.8.2 Make required notifications.

\_\_\_\_\_ 2.9 Restore affected plant systems to normal operation per applicable site procedures.

\_\_\_\_\_ 2.10 **IF** an emergency has **NOT** been declared, notify York County Emergency Management about the event through the York County 911 Telecommunicator and as necessary, request emergency response support. {PIP 0-C00-01689}

**NOTE:**

1. A request for emergency response support (except an ambulance) from an off-site agency requires a 4-hour notification of the NRC as an "Off-site Notification" per RP/0/B/5000/013 (NRC Notification Requirements).
2. A request for ambulance support for a "contaminated injury" is an 8-hour notification and the request for transport of a "clean injury" does not require a NRC notification.

\_\_\_\_\_ 2.11 **IF** emergency response support from York County Emergency Management is requested **AND** an emergency has **NOT** been declared, notify the NRC under the 4-hour notification requirement for off-site notifications.

**NOTE:** Permission for unit startup is required from FEMA/NRC after a plant shutdown due to a natural disaster that affects both the plant and the local government emergency response capability.

\_\_\_\_\_ 2.12 **IF** a unit restart is desired, consult site management for unit startup criteria.

2.13 This procedure remains in effect until the Duke Power Meteorological Group (704-594-0341) verifies that the threat of hurricane force winds to the Catawba Nuclear Site no longer exists.

2.14 **IF** an emergency has **NOT** been declared for this event **AND** the NRC has **NOT** been notified of this event, perform the following:

\_\_\_\_\_ A. Notify the duty Emergency Planner.

\_\_\_\_\_ B. Notify the Community Relations duty person.

\_\_\_\_\_ C. Make a courtesy notification to the states and counties using Enclosure 4.7.

## 1. Immediate Actions

- NOTE:**
1. Immediate Actions may be performed simultaneously.
  2. The four Reactor Coolant Leakage Detection Systems are not seismically qualified and must be assumed to be inoperable following any seismic event. EMF38(L) and EMF39(L) can be verified to be operable based on power availability and sample pump operation.
  3. Reactor Coolant Leakage Detection Systems are not required to be operable during Cold Shutdown.
  4. An OAC Alarm at point CID 2252 indicates that there has been a recording of an event by seismic instrumentation. This alarm is in addition to an event indicator and initiation by starter unit MIMT 5090.

- 1.1 Following any earthquake that is felt in the plant or is recorded on instrumentation, including earthquakes smaller than OBE, declare all four Reactor Coolant Leakage Detection Systems (listed below) are inoperable:

- \_\_\_\_\_ 1.1.1 Containment Floor and Equipment Sump Level and Flow Monitoring System
- \_\_\_\_\_ 1.1.2 VUCDT Level Monitoring System)
- \_\_\_\_\_ 1.1.3 EMF38(L)
- \_\_\_\_\_ 1.1.4 EMF39(L)

- 1.2 Determine the operable status of 1(2)EMF38(L) and 1(2)EMF39(L) by the following methods and apply the appropriate action statement for Technical Specification 3.4.15.

- \_\_\_\_\_ 1.2.1 Perform a source check from the Control Room to verify that power to 1(2)EMF38(L) and 1(2)EMF39(L) is available.
- \_\_\_\_\_ 1.2.2 Visually verify that 1(2)EMF38(L) and 1(2)EMF39(L) sample pump is operational.

**NOTE:**

1. Decision on Shutdown **IF** the OBE has been exceeded **OR** significant damage is found during operator walkdowns, the plant should be shutdown in an orderly manner for more detailed inspections. **IF** the plant has tripped under conditions which would warrant shutdown, the plant should remain shutdown for detailed inspections.
2. Pre-Shutdown Inspections Following a decision to shutdown the plant, but prior to initiating shutdown, visual inspections of essential safe shutdown equipment should be performed to determine its readiness. Other factors outside of the control of the plant that could affect the timing of the shutdown (e.g. availability/reliability of off site power), should also be evaluated at this time.
3. Normal Shutdown **WHEN** plant capability to safely shutdown has been verified, normal shutdown would proceed. Under all circumstances the method and pace at which the Reactor is brought to a safe condition should continue to be based upon all instrumentation indications and the operator's judgment.

- \_\_\_\_\_ 1.3 **IF** the Operational Bases Earthquake (OBE) Exceeded Alarm 1AD-4, B/8, is received **AND** the effects of an earthquake are felt, immediately take the Unit(s) to Hot Standby (Mode 3). For the initiation of any unit shutdown, carry out the reporting provisions of RP/0/B/5000/013, (NRC Notification Requirements).
- \_\_\_\_\_ 1.4 **IF** the Operational Bases Earthquake (OBE) Exceeded Alarm 1AD-4, B/8, is received **AND** the effects of an earthquake are felt, swap RN to the Standby Nuclear Service Water Pond in accordance with OP/0/A/6400/006C (Nuclear Service Water System).
- \_\_\_\_\_ 1.5 Classify the emergency as appropriate per RP/0/A/5000/001, (Classification of Emergency), and commence notification and other protective measures as directed by appropriate Emergency Response Procedure.
- \_\_\_\_\_ 1.6 **IF** the FWST level is decreasing, verify valves 1(2)FW33A and 1(2)FW49B are closed.
- \_\_\_\_\_ 1.7 **WHEN** appropriate, announce the impending condition over the plant PA System.
- \_\_\_\_\_ 1.8 **IF** an emergency has **NOT** been declared, notify York County Emergency Management about the event through the York County 911 Telecommunicator and as necessary, request emergency response support. {PIP 0-C00-01689}

**NOTE:**

1. A request for emergency response support (except an ambulance) from an off-site agency requires a 4-hour notification of the NRC as an "Off-site Notification" per RP/0/B/5000/013 (NRC Notification Requirements).
2. A request for ambulance support for a "contaminated injury" is an 8-hour notification and the request for transport of a "clean injury" does not require a NRC notification.

- \_\_\_\_\_ 1.9 **IF** emergency response support from York County Emergency Management is requested **AND** an emergency has **NOT** been declared, notify the NRC under the 4-hour notification requirement for off-site notifications.

## 2. Subsequent Actions

- \_\_\_\_\_ 2.1 Notify IAE to remove the magnetic tapes from the SMA-3 recorder to evaluate and verify the magnitude of the earthquake according to AM/0/B/5100/010, "Kinematics Seismic Monitoring System Data Collection." Section 3.0 of this enclosure is provided as a reference for seismic monitoring instrument locations.
- \_\_\_\_\_ 2.2 **IF** the earthquake intensity is  $>0.15g$  horizontal **OR**  $>0.1g$  vertical ( $>$  Safe Shutdown Earthquake) as measured by 1MIMT 5070 (provided by IAE from step 2.1), shut down the unit(s) to Cold Shutdown (Mode 5). For the initiation of any unit shutdown, carry out the reporting provisions of RP/0/B/5000/013, (NRC Notification Requirements).
- \_\_\_\_\_ 2.3 Seismic verification may be obtained by calling the National Earthquake Information Service at 1-303- 273-8500.
- \_\_\_\_\_ 2.4 All records made by accelerographs and recorders shall be evaluated to verify the extent of the earthquake.
- \_\_\_\_\_ 2.5 **IF** the earthquake was determined to be  $>OBE$ , Regulatory Compliance shall make a report to NRC Region II within 24 hours via telephone. (10CFR 50.72)
- \_\_\_\_\_ 2.6 **IF** the earthquake was determined to be  $<OBE$  but recorded on seismic instrumentation, Regulatory Compliance shall prepare and submit a special report to the NRC as defined in Selected Licensee Commitments (SLC) Section 16.7-2, Seismic Instrumentation, Testing Requirements, b.
- \_\_\_\_\_ 2.7 **WHEN** conditions permit, coordinate a survey of plant structures and equipment (similar to normal daily rounds) to determine the extent of damage, as follows:
  - \_\_\_\_\_ 2.7.1 Notify personnel from IAE and Mechanical Maintenance to assist Operations in the evaluation of damage as necessary.
  - \_\_\_\_\_ 2.7.2 Notify Radiation Protection personnel to survey the Reactor, Auxiliary and Fuel Pool Buildings to ensure shielding integrity.
  - \_\_\_\_\_ 2.7.3 Notify Chemistry personnel to survey areas where damage may release dangerous chemicals (e.g. Sulfuric Acid Storage).
  - \_\_\_\_\_ 2.7.4 Record the findings of the survey in the associated unit's Nuclear Shift Supervisor Log.
- \_\_\_\_\_ 2.8 **IF** the earthquake exceeds  $OBE$  **AND** the survey identifies plant damage, perform the following:
  - \_\_\_\_\_ 2.8.1 Evaluate overall plant conditions and consider emergency classifications based on Emergency Coordinator's judgement.
  - \_\_\_\_\_ 2.8.2 Make required notifications.



- \_\_\_\_\_ 2.9 Restore affected plant systems to normal operation per applicable site procedures.

**NOTE:** Permission for unit startup is required from FEMA/NRC after a plant shutdown due to a natural disaster that affects both the plant and the local government emergency response capability.

- \_\_\_\_\_ 2.10 **IF** a unit restart is desired, consult site management for unit startup criteria.
- 2.11 **IF** an emergency has **NOT** been declared for this event **AND** the NRC has **NOT** been notified of this event, perform the following:
- \_\_\_\_\_ 2.11.1 Notify the duty Emergency Planner.
- \_\_\_\_\_ 2.11.2 Notify the Community Relations duty person.
- \_\_\_\_\_ 2.11.3 Make a courtesy notification to the states and counties using Enclosure 4.7.

### 3. Station Seismic Monitoring Instruments

<u>Instrument #</u>	<u>Name</u>	<u>Location</u>
1MIMT-5010	Peak Accelerograph	Cold Leg Accumulator 1A
1MIMT-5020	Peak Accelerograph	NC Pipe at PZR Surge Line
1MIMT-5030	Peak Accelerograph	NI Pump 1A

**NOTE:** 1MIMT-5040 also provides input to Peak Shock Annunciator (PSA1575)

1MIMT-5040	Spectrum Recorder	RB Basement 0°
1MIMT-5050	Spectrum Recorder	PZR Lower Support
1MIMT-5060	Spectrum Recorder	Aux Bldg. 577 EL (PP-56)

**NOTE:** 1MIMT-5000 provides indication of OBE Exceeded on 1AD-4, B/8 in Control Room

1MIMT-5000	Seismic Switch	RB Basement 0°
1MIMT-5070	Strong Motion Accelerograph	RB Basement 0°
1MIMT-5080	Strong Motion Accelerograph	Annulus 619 EL 0°
1MIMT-5090	Starter Unit for SMA-3	RB Basement 0°

#### Seismic Instrumentation System Information

Seismic switch 1MIMT-5000 provides a Control Room Annunciator 1AD4/B8 for indication of OBE exceeded. 1MIMT 5070/5080 receive a start signal from 1MIMT-5090. 1MIMT 5070/5080 provide magnetic tape recordings which must be played back on SMP-1 to get a recording of the data to be analyzed.

1MIMT-5040 provides Control Room indication of greater than 70% OBE (amber light) or greater than 100% OBE (red light) for certain frequencies between 2 and 25.4 Hz.

1MIMT-5010/5020/5030/5040/5050/5060 contain removable scratch plates. These scratch plates provide indication of peak accelerations.

**Flooding Due to High Lake Level  
(Lake Elevation > 593.5 MSL)  
or Seiche (Lake Tidal Wave)**

## 1. Immediate Actions

- NOTE:**
1. Seiche is same as High Lake Level.
  2. Immediate Actions may be performed simultaneously.

- 1.1 Should the lake level exceed 593.5 Ft MSL **AND** jeopardize the safe operation of the reactor, shut down the unit(s) to Hot Standby (Mode 3). For the initiation of any unit shutdown, carry out the reporting provisions of RP/0/B/5000/013, (NRC Notification Requirements).
- 1.2 Contact SPOC to close the Auxiliary Service Building rolling doors AR2 (Hot Tool Crib) and AR5 (Waste Shipping Area). **IF** the rolling doors are damaged to the extent they cannot be closed, ensure a suitable 7½" barrier is installed across the door opening above the 594+0 Floor Slab until the door(s) can be repaired.
- 1.3 Classify the emergency as appropriate per RP/0/A/5000/001, (Classification of Emergency), and commence notification and other protective measures as directed by appropriate Emergency Response Procedure.
- 1.4 **WHEN** appropriate, announce the impending condition over the plant PA System.
- 1.5 **IF** an emergency has **NOT** been declared, notify York County Emergency Management about the event through the York County 911 Telecommunicator and as necessary, request emergency response support. {PIP 0-C00-01689}

- NOTE:**
1. A request for emergency response support (except an ambulance) from an off-site agency requires a 4-hour notification of the NRC as an "Off-site Notification" per RP/0/B/5000/013 (NRC Notification Requirements).
  2. A request for ambulance support for a "contaminated injury" is an 8-hour notification and the request for transport of a "clean injury" does not require a NRC notification.

- 1.6 **IF** emergency response support from York County Emergency Management is requested **AND** an emergency has **NOT** been declared, notify the NRC under the 4-hour notification requirement for off-site notifications.

## 2. Subsequent Actions

- 2.1 **WHEN** conditions permit, coordinate a survey of plant structures and equipment to determine the extent of damage as follows:
  - 2.1.1 Notify personnel from IAE and Mechanical Maintenance to assist Operations in the evaluation of weather induced damage as necessary.
  - 2.1.2 Notify Radiation Protection personnel to survey the Reactor, Auxiliary and Fuel Pool Buildings to ensure shielding integrity.

Enclosure 4.5

Flooding Due to High Lake Level  
(Lake Elevation > 593.5 MSL)  
or Seiche (Lake Tidal Wave)

RP/0/A/5000/007

Page 2 of 2

- \_\_\_\_\_ 2.1.3 Notify Chemistry personnel to survey areas where damage may release dangerous chemicals (e.g. Sulfuric Acid Storage).
- \_\_\_\_\_ 2.1.4 Record the findings of the survey in the associated unit's Nuclear Shift Supervisor Log.
- 2.2 **IF** the survey identifies plant damage, perform the following:
  - \_\_\_\_\_ 2.2.1 Evaluate the overall plant condition and consider emergency classifications based on Emergency Coordinator's judgement.
  - \_\_\_\_\_ 2.2.2 Make required notifications.
- \_\_\_\_\_ 2.3 Restore affected plant systems to normal operation per applicable site procedures.

<p><b>NOTE:</b> Permission for unit startup is required from FEMA/NRC after a plant shutdown due to a natural disaster that affects both the plant and the local government emergency response capability.</p>
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- \_\_\_\_\_ 2.4 **IF** a unit restart is desired, consult site management for unit startup criteria
- 2.5 **IF** an emergency has **NOT** been declared for this event **AND** the NRC has **NOT** been notified of this event, perform the following:
  - \_\_\_\_\_ 2.5.1 Notify the duty Emergency Planner.
  - \_\_\_\_\_ 2.5.2 Notify the Community Relations duty person.
  - \_\_\_\_\_ 2.5.3 Make a courtesy notification to the states and counties using Enclosure 4.7.

**Enclosure 4.6**  
**Low Lake Level**  
**(Lake Elevation < 557.5 Ft. MSL)**

RP/0/A/5000/007  
Page 1 of 2

## 1. Immediate Actions

**NOTE:** Immediate Actions may be performed simultaneously.

- \_\_\_\_\_ 1.1 Classify the emergency as appropriate per RP/0/A/5000/001 (Classification of Emergency), and commence notification and other protective measures as directed by appropriate Emergency Response Procedure.
- \_\_\_\_\_ 1.2 Lake level elevations below 557.5 FT. MSL shall be obtained from the Duke Power Company System Coordinator on the Control Room System Coordinator phone or at 8-382-4413.
- \_\_\_\_\_ 1.3 Should the lake level decrease below 550.4 Ft MSL AND jeopardize the safe operation of the reactor, shut down the unit(s) to Hot Standby (Mode 3). For the initiation of any unit shutdown, carry out the reporting provisions of RP/0/B/5000/013 (NRC Notification Requirements).
- \_\_\_\_\_ 1.4 WHEN appropriate, announce the impending condition over the plant PA System.
- \_\_\_\_\_ 1.5 IF an emergency has NOT been declared, notify York County Emergency Management about the event through the York County 911 Telecommunicator and as necessary, request emergency response support. {PIP 0-C00-01689}

**NOTE:**

- 1. A request for emergency response support (except an ambulance) from an off-site agency requires a 4-hour notification of the NRC as an "Off-site Notification" per RP/0/B/5000/013 (NRC Notification Requirements).
- 2. A request for ambulance support for a "contaminated injury" is an 8-hour notification and the request for transport of a "clean injury" does not require a NRC notification.

- \_\_\_\_\_ 1.6 IF emergency response support from York County Emergency Management is requested AND an emergency has NOT been declared, notify the NRC under the 4-hour notification requirement for off-site notifications.

## 2. Subsequent Actions

- 2.1 WHEN conditions permit, coordinate a survey of plant structures and equipment to determine the extent of damage as follows:
  - \_\_\_\_\_ 2.1.1 Notify personnel from IAE and Mechanical Maintenance to assist Operations in the evaluation of weather induced damage as necessary.
  - \_\_\_\_\_ 2.1.2 Notify Radiation Protection personnel to survey the Reactor, Auxiliary and Fuel Pool Buildings to ensure shielding integrity.
  - \_\_\_\_\_ 2.1.3 Notify Chemistry personnel to survey areas where damage may release dangerous chemicals (e.g. Sulfuric Acid Storage).

**Enclosure 4.6**

RP/0/A/5000/007

Page 2 of 2

**Low Lake Level  
(Lake Elevation < 557.5 Ft. MSL)**

\_\_\_\_\_ 2.1.4 Record the findings of the survey in the associated unit's Nuclear Shift Supervisor Log.

2.2 **IF** the survey identifies plant damage, perform the following:

\_\_\_\_\_ 2.2.1 Evaluate the overall plant condition and consider emergency classifications based on the Emergency Coordinator's judgement.

\_\_\_\_\_ 2.2.2 Make required notifications.

\_\_\_\_\_ 2.3 Restore affected plant systems to normal operation per applicable site procedures.

2.4 **IF** an emergency has **NOT** been declared for this event **AND** the NRC has **NOT** been notified of the event, perform the following:

\_\_\_\_\_ 2.4.1 Notify the duty Emergency Planner.

\_\_\_\_\_ 2.4.2 Notify the Community Relations duty person.

\_\_\_\_\_ 2.4.3 Make a courtesy notification to the states and counties using Enclosure 4.7.

**Courtesy Notification to States and Counties  
for a Non-emergency Plant Event**

**NOTE:** This enclosure provides instruction for notifying state and county emergency preparedness management agencies (primary WP/EOCs) and EnergyQuest of **non-emergency** plant events by completing a Courtesy Notification Form (page 4 of 4) and faxing it to each agency, then verifying its receipt with a follow-up phone call. {PIP 0-C00-01689}

## 1. Complete the Courtesy Notification Form as follows:

\_\_\_\_\_ 1.1 Provide the time and date of:

- Notification
- Event

\_\_\_\_\_ 1.2 Mark the event(s) that describes the reason for the notification.

\_\_\_\_\_ 1.3 Describe the event briefly, especially any impact to the site (damage, impact on operations, and any requested support received from off-site agencies).

**NOTE:**

1. The confirmation code number is randomly assigned to each message. This provides a method for authenticating an offsite agency official that calls the site over normal phone lines requesting additional information about the reported event. Knowing the confirmation code number shall be the authorization for site personnel to provide information about the event to the caller.
2. Calls received over selective signal lines are considered to be secure and do not require knowledge of the confirmation code number to receive additional information about the event.

\_\_\_\_\_ 1.4 Assign a 2-digit confirmation number to the notification form.

\_\_\_\_\_ 1.5 Print the name and title of the individual authorizing the notification.

## 2. Notification by Group Fax

**NOTE:** Step 2 sends a group fax and step 3 sends the fax to agencies individually.

\_\_\_\_\_ 2.1 Notify the states and county agencies (primary WP/EOCs) of a **non-emergency** plant event(s) by completing a Courtesy Notification Form (page 4 of 4) and transmitting it to the states and counties as follows:

**Courtesy Notification to States and Counties  
for a Non-emergency Plant Event**

**NOTE:** Performing steps 2.1.1 through 2.1.3 sends the Courtesy Notification Form (page 4 of 4) to multiple locations in sequence.

- \_\_\_\_\_ 2.1.1 Place the completed form (page 4 of 4) face down into the fax machine.
- \_\_\_\_\_ 2.1.2 Press the pre-programmed one-touch speed dial pushbutton for each of the of the following agencies:
  - \_\_\_\_\_ ☐ York Co WP/EOC
  - \_\_\_\_\_ ☐ Gaston Co. WP/EOC
  - \_\_\_\_\_ ☐ Meck Co. WP
  - \_\_\_\_\_ ☐ NC WP/EOC
  - \_\_\_\_\_ ☐ SC WP/EOC
  - \_\_\_\_\_ ☐ EnergyQuest
- \_\_\_\_\_ 2.1.3 Press START
- \_\_\_\_\_ 2.2 Verify by one of the following means that the form (page 4 of 4) was received by each of the agencies:
  - \_\_\_\_\_ ☐ Selective Signal (Enclosure 1.5, Emergency Response Telephone Directory)
  - \_\_\_\_\_ ☐ Duke or Commercial Telephone (Enclosures 1.12 – 1.16, Emergency Response Telephone Directory)
- \_\_\_\_\_ 2.3 **IF** any agency did not receive the group fax, then make the courtesy notification to the agency(s) by performing step 3.
- \_\_\_\_\_ 2.4 Fax a copy of the Courtesy Notification Form (page 4 of 4) to Emergency Planning at 831-3151.
- \_\_\_\_\_ 2.5 Report any communications equipment failures to the duty Emergency Planner.



**Courtesy Notification to States and Counties  
for a Non-emergency Plant Event**

### 3. Notification by Individual Fax

- \_\_\_\_\_ 3.1 Notify the states and county agencies (primary WP/EOCs) of a **non-emergency** plant event(s) by completing a Courtesy Notification Form (page 4 of 4) and transmitting it to the states and counties as follows:

**NOTE:** Performing steps 3.1.1 through 3.1.3 sends the Courtesy Notification Form (page 4 of 4) to individual agencies one at a time.

- \_\_\_\_\_ 3.1.1 Place the completed form (page 4 of 4) face down into the fax machine.

**NOTE:** SC WP/EOC and EnergyQuest list two fax numbers. Use the fax number for sending Emergency Notifications.

- \_\_\_\_\_ 3.1.2 Enter the individual fax phone number (Enclosures 1.12 through 1.16 in the Emergency Response Phone Book) for the desired individual agency (WP/EOC). EnergyQuest fax number is listed in Enclosure 1.19, Emergency Response Telephone Directory.

- \_\_\_\_\_ 3.1.3 Press START.

- \_\_\_\_\_ 3.1.4 Repeat steps 3.1.1 through 3.1.3 until all of the desired agencies have been faxed the form (page 4 of 4).

- \_\_\_\_\_ 3.2 Verify by one of the following means that the form (page 4 of 4) was received by the agency(s):

- \_\_\_\_\_ ☐ Selective Signal (Encl. 1.5, Emergency Response Telephone Directory)

- \_\_\_\_\_ ☐ Duke or Commercial Telephone (Enclosures 1.12 – 1.16, Emergency Response Telephone Directory)

- \_\_\_\_\_ 3.3 Fax a copy of the completed Courtesy Notification Form (page 4 of 4) to Emergency Planning at 831-3151.

- \_\_\_\_\_ 3.4 Report any communications equipment failures to the duty Emergency Planner.

Courtesy Notification to States and Counties  
for a Non-emergency Plant Event

DUKE POWER COMPANY  
CATAWBA NUCLEAR STATION

COURTESY NOTIFICATION FORM  
NON-EMERGENCY EVENTS

Time/Date Of Notification: \_\_\_\_\_ / \_\_\_\_\_

Time/Date Of Event: \_\_\_\_\_ / \_\_\_\_\_

Event (X):

☐ Earthquake

☐ Toxic Gases

☐ Fatality

☐ Flood

☐ Civil Disturbance

☐ Fire Response by  
Bethel/Newport

☐ Hurricane

☐ Bomb Threat

☐ Medical Response  
by Ambulance

☐ Ice/Snow

☐ Vehicle Crash

☐ HazMat /Spill  
Response

☐ Tornado

☐ Explosion

☐ Other Events Impacting Safe  
Plant Operation

Description:

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Confirmation Code Number: \_\_\_\_\_ (This number is authentication for any off-site  
agency caller to be given information about the event).

Confirmation Phone Number: (803) 831-8185

Reported By: \_\_\_\_\_ Title: \_\_\_\_\_

# Duke Power Company

## PROCEDURE PROCESS RECORD

(1) ID No. RP/0/B/5000/008Revision No. 018**PREPARATION**(2) Station Catawba Nuclear Station(3) Procedure Title Spill Response(4) Prepared By E. T. BudderDate 1/19/2001

(5) Requires 10CFR50.59 evaluation?

☒ Yes (New procedure or reissue with major changes)☐ No (Revision with minor changes)☐ No (To incorporate previously approved changes)(6) Reviewed By GARY L MITCHELL (QR)Date 01/21/01Cross-Disciplinary Review By Barry B Long (OPS) (QR) NA         Date 1-22-2001Reactivity Mgmt. Review By          (QR) NA GLMDate 01/21/01

(7) Additional Reviews

Reviewed By          Date         Reviewed By          Date         

(8) Temporary Approval (if necessary)

By          (SRO/QR) Date         By          (QR) Date         (9) APPROVED BY Richard L Swigart Date 01/22/01**PERFORMANCE** (Compare with control copy at least once 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) Dates(s) Performed         Work Order Number (W/O #)         **COMPLETION**

(12) Procedure Completion Verification

- |                              |                              |   |
|------------------------------|------------------------------|---|
| <input type="checkbox"/> Yes | <input type="checkbox"/> N/A | Check lists and/or blanks properly initialed, signed, dated, or filled in NA, as appropriate? |
| <input type="checkbox"/> Yes | <input type="checkbox"/> N/A | Listed enclosures attached?   |
| <input type="checkbox"/> Yes | <input type="checkbox"/> N/A | Data sheets attached, completed, dated and signed?  |
| <input type="checkbox"/> Yes | <input type="checkbox"/> N/A | Charts, graphs, etc. attached and properly dated, identified and marked?                      |
| <input type="checkbox"/> Yes | <input type="checkbox"/> N/A | Procedure requirements met?   |

Verified By          Date         (13) Procedure Completion Approved          Date         

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

**Duke Power Company  
Catawba Nuclear Station**

**Spill Response**

**Multiple Use**

Procedure No.

**RP/0/B/5000/008**

Revision No.

018

Electronic Reference No.

CN005GO3

## Spill Response

### 1. Symptoms

- 1.1 An unplanned or uncontrolled release of a chemical product, oil, or hazardous waste from a container or system in excess of normal drips and splatters.

The release of water from a plant system to the environment may also be considered a spill, especially for chemically treated water systems such as the fire protection system or drinking water system which both contain chlorine.

A spill to the "environment" means soil, water, or air that is not under the direct control of mankind. For CNS the environment includes all ground/soil/gravel areas that are not protected by a liner such as concrete or asphalt (in good condition - not broken or cracked), the air outside any building or air that is discharged from a vent to the outside, and all exterior waters including the Standby Nuclear Service Water Pond, (SNSWP), wetlands (environmentally sensitive areas), and Lake Wylie.

- NOTE:**
1. On-Site is defined as inside the Owner Controlled Area.
  2. Off-Site is defined as outside the Owner Controlled Area.
  3. Navigable Waters is defined as Lake Wylie and the Standby Nuclear Service Water Pond.

### 2. Immediate Actions

- 2.1 For On-Site Spill Response, go to Enclosure 4.1.
- 2.2 For Off-Site Spill Response, go to Enclosure 4.2.
- 2.3 For Oil Spills to Navigable Waters (Lake Wylie OR SNSW Pond), go to Enclosure 4.3.

### 3. Subsequent Actions

- 3.1 On-Site, go to Enclosure 4.1.
- 3.2 Off-Site, go to Enclosure 4.2.
- 3.3 Oil Spills to Navigable Waters (Lake Wylie OR SNSW Pond), go to Enclosure 4.3.

### 4. Enclosures

- 4.1 On-Site Spill Response
- 4.2 Off-Site Spill Response

- 4.3 Oil Spills to Navigable Waters (Lake Wylie OR SNSW Pond)
- 4.4 HazMat Emergency Response Team Activation and Emergency Telephone/Pager Numbers
- 4.5 Oil Spill Response Team Activation
- 4.6 Courtesy Notification to States and Counties for a Non-emergency Plant Event

## 1. Immediate Actions

- \_\_\_\_\_ 1.1 Initiate a response by the Fire Brigade Leader to investigate and report conditions to Control Room. Any additional Fire Brigade response should be determined based on the conditions reported by the Fire Brigade Leader.
- \_\_\_\_\_ 1.2 Announce the following over the plant PA system:
- “Attention all plant personnel. Attention all plant personnel. This is the Control Room. A chemical spill has been reported to the Control Room. This spill is occurring at (provide plant location). Please stay clear of this area until further notice.”

- \_\_\_\_\_ 1.3 IF any of the below Chemical Spill conditions exist:

**NOTE:** If the product source of the spill/leak has been secured, AND the release of the product is no longer occurring, AND the spilled product has been contained/confined, the HazMat Emergency Response Team is not needed. Go to Environmental Work Practices 5.1.

(Check any that apply)

- \_\_\_\_\_ • The spill is an unknown product/substance, **OR**
  - \_\_\_\_\_ • The spill is a labeled HAZARDOUS WASTE, **OR**
  - \_\_\_\_\_ • The spill requires immediate attention because of danger such as fire or explosion, **OR**
  - \_\_\_\_\_ • The spill requires donning of Personal Protective Equipment (PPE) other than that normally used while working with the product, or could create an exposure hazard for others in the area, **OR**
  - \_\_\_\_\_ • The spill requires additional equipment for containment not normally stored in the area.
- \_\_\_\_\_ Contact the HazMat Emergency Response Team as listed on Enclosure 4.4 for spill response resources.
- \_\_\_\_\_ 1.4 IF the above conditions do not exist or the material involved is asbestos/insulating materials, water from RF, RY or YD systems, go to Environmental Work Practice 5.1.
- \_\_\_\_\_ 1.5 For oil spills/releases to navigable water (Lake Wylie or SNSW), or any imminent potential of such, refer to Enclosure 4.3 for immediate actions. Oil spills of non-flammable/combustible materials **DO NOT** require any action by the HazMat Emergency Response Team.

## 2. Subsequent Actions

**NOTE:** Lines in left margin are for place-keeping. Subsequent Actions may be performed simultaneously.

- \_\_\_\_\_ 2.1 Secure the area and deny entry into the area of the spill until the HazMat Emergency Response Team has arrived.
- \_\_\_\_\_ 2.2 Refer to RP/0/A/5000/001 (Classification of Emergency).
- \_\_\_\_\_ 2.3 Verify the Central Alarm Station (CAS-5364) or Secondary Alarm Station (SAS-3377) is aware that a Spill Emergency Response/alert has been made and inform the CAS/SAS operator of the spill location for MERT notification purposes.
- \_\_\_\_\_ 2.4 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.
- \_\_\_\_\_ 2.5 **IF** an emergency has **NOT** been declared **AND** the site HazMat Team is called out, notify York County Emergency Management about the event through the York County 911 Telecommunicator and as necessary, request additional HazMat support.  
{PIP 0-C00-01689}

**NOTE:**

- 1. A request for emergency response support (except an ambulance) from an off-site agency requires a 4-hour notification of the NRC as an "Off-site Notification" per RP/0/B/5000/013 (NRC Notification Requirements).
- 2. A request for ambulance support for a "contaminated injury" is an 8-hour notification and the request for transport of a "clean injury" does not require a NRC notification.

- \_\_\_\_\_ 2.6 **IF** emergency response support from York County Emergency management is requested **AND** an emergency has **NOT** been declared, notify the NRC under the 4-hour notification requirement for off-site notifications.
- \_\_\_\_\_ 2.7 Notify Community Relations duty person of the incident.
- \_\_\_\_\_ 2.8 Refer to the site Emergency Plan, Catawba Nuclear Site Hazardous Materials Response Plan, for further information regarding the comprehensive response plan elements if necessary.
- \_\_\_\_\_ 2.9 Refer to the Environmental Work Practice Manual 5.1, Spill Response, Enclosure 3.2, for actions to take after the spill has been neutralized or stabilized.



**Enclosure 4.1**  
**On-Site Spill Response**

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\_\_\_\_\_ 2.10 **IF** an emergency has **NOT** been declared for this event **AND** the NRC has **NOT** been notified of this event, perform the following:

2.10.1 Notify the duty Emergency Planner

2.10.2 Make a courtesy notification to the states and counties using Enclosure 4.6.

## 1. Immediate Actions

- \_\_\_\_ 1.1 Upon receiving a call involving the release of a CNS related hazardous substance or material (hazardous wastes or radioactive materials) which were shipped from CNS, request the caller's name and phone number and Radiological Shipping Record Number (RSR Number may not be available).

Name: \_\_\_\_\_ Phone #: \_\_\_\_\_

RSR #: \_\_\_\_\_

- \_\_\_\_ 1.2 Keep the caller on hold. Do not hang up.

**NOTE:** CNS Nuclear Supply Chain personnel shall provide information regarding the Hazardous Material incident directly to the caller.

- \_\_\_\_ 1.3 Contact Nuclear Supply Chain shift personnel at 831-3453 or duty pager 778-4054 and instruct them to call the Control Room immediately.

- \_\_\_\_ 1.4 Connect them to the caller when they return the call or page.

## 2. Subsequent Actions

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

### 2.1 Radiological Materials Incidents

- \_\_\_\_ 2.1.1 Notify the RP Shift Technician on duty at 831-5572 or pager #778-2777 and provide the caller's name and phone number.
- \_\_\_\_ 2.1.2 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 pages all Environmental Management personnel.
- \_\_\_\_ 2.1.3 Notify Community Relations of the incident (pager #8-777-7388).
- \_\_\_\_ 2.1.4 Notify York County EOC of the incident at 803-329-1110 and provide the caller's name and phone number (if incident occurred in York County, SC). (PIP # C-00-1689)
- \_\_\_\_ 2.1.5 Notify Duke Power Risk Management at (704) 382-8186 (24 hour phonemail service).
- \_\_\_\_ 2.1.6 Notify American Nuclear Insurers (ANI) at (860) 561-3433.

**Enclosure 4.2**  
**Off-Site Spill Response**

RP/0/B/5000/008  
Page 2 of 2

- \_\_\_\_\_ 2.1.7 In the event that a responsible group is not identified, the Operations Shift Manager (or designee) shall initiate a PIP. Refer to Environmental Work Practice 5.1 for information to include in the PIP.
  
- 2.2 Hazardous Waste Incidents
  - \_\_\_\_\_ 2.2.1 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 pages all Environmental Management personnel.
  
  - \_\_\_\_\_ 2.2.2 Notify Community Relations duty person of the incident.
  
  - \_\_\_\_\_ 2.2.3 Notify York County EOC of the incident at 803-329-1110 and provide the caller's name and phone number (if incident occurred in York County, SC). (PIP # C-00-1689)
  
  - \_\_\_\_\_ 2.2.4 In the event that a responsible group is not identified, the Operations Shift Manager (or designee) shall initiate a PIP. Refer to Environmental Work Practice 5.1 for information to include in the PIP.

**Enclosure 4.3**  
**Oil Spills to Navigable Waters (Lake Wylie**  
**OR SNSW Pond)**

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**1. Immediate Actions**

- \_\_\_\_\_ 1.1 Upon receiving notification of a spill of oil (petroleum products, synthetic oils, hydraulic oils, etc.) to Lake Wylie or the Standby Nuclear Service Water Pond which requires clean-up, request the caller's name and phone number:

Name: \_\_\_\_\_ Phone: \_\_\_\_\_

- \_\_\_\_\_ 1.2 **IF** necessary to confirm the spill, **THEN** dispatch an Operator.

**NOTE:** Oil Spill Response Team will call the Control Room upon arrival on site.

- \_\_\_\_\_ 1.3 Contact the Lower Catawba Hydro Oil Spill Response Team as listed on Enclosure 4.5 to initiate a response.

**2. Subsequent Actions**

- \_\_\_\_\_ 2.1 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.
- \_\_\_\_\_ 2.2 **IF** an emergency has **NOT** been declared, notify York County Emergency Management about the event through the York County 911 Telecommunicator and as necessary, request emergency response support. {PIP # C-00-1689}

**NOTE:** 1. A request for emergency response support (except an ambulance) from an off-site agency requires a 4-hour notification of the NRC as an "Off-site Notification" per RP/0/B/5000/013 (NRC Notification Requirements).

2. A request for ambulance support for a "contaminated injury" is an 8-hour notification and the request for transport of a "clean injury" does not require a NRC notification.

- \_\_\_\_\_ 2.3 **IF** emergency response support from York County Emergency Management is requested **AND** an emergency has **NOT** been declared, notify the NRC under the 4-hour notification requirement for off-site notifications.
- \_\_\_\_\_ 2.4 Notify Community Relations duty person of the incident.
- \_\_\_\_\_ 2.5 In the event that a responsible group is not identified, the Operations Shift Manager (or designee) shall initiate a PIP. Refer to Environmental Work Practice 5.1 for information to include in the PIP.

**Enclosure 4.3**  
**Oil Spills to Navigable Waters (Lake Wylie**  
**OR SNSW Pond)**

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Page 2 of 2

- \_\_\_\_\_ 2.6 **IF** an emergency has **NOT** been declared for this event **AND** the NRC has **NOT** been notified of this event, perform the following:
- 2.6.1 Notify the duty Emergency Planner
  - 2.6.2 Make a courtesy notification to the states and counties using Enclosure 4.6.

**Enclosure 4.4**  
**HazMat Emergency Response Team Activation**  
**and Emergency Telephone/Pager Numbers**

RP/0/B/5000/008

Page 1 of 3

**1. HazMat Team Notification During an Emergency**

- \_\_\_\_\_ 1.1    **IF** the HazMat Team is being called out for a drill, go to Step 2.
- 1.2    Activate the Off-Site emergency pager system Quiktel Key Pad located in the Control Room.
- \_\_\_\_\_ 1.2.1    Type in SPILL and press "ENTER"
- \_\_\_\_\_ 1.2.2    Press "M"
- \_\_\_\_\_ 1.2.3    Type the following message;
- "CNS Hazardous Materials Spill; All Team Members Respond."
- \_\_\_\_\_ 1.2.4    Press "ENTER"

<b>NOTE:</b> Pager activation can be delayed up to 5 minutes depending on pager system status.
--

- \_\_\_\_\_ 1.2.5    Monitor the confirmation pagers located at the Quiktel Key Pad to verify proper pager activation.
- \_\_\_\_\_ 1.3    **IF** the Quiktel Key Pad is unavailable, dial 8-777-8091 and enter your phone number (e.g., 803-831-3250), and press #. The HazMat Response Team duty person will return your call and make additional call-outs as necessary to ensure team response.

**2. HazMat Team Notification During a Drill**

- 2.1    Activate the Off-Site emergency pager system Quiktel Key Pad located in the Control Room.
- \_\_\_\_\_ 2.1.1    Type in SPILL and press "ENTER"
- \_\_\_\_\_ 2.1.2    Press "M"
- \_\_\_\_\_ 2.1.3    Type in the following message:
- "This is a Drill. CNS Hazardous Materials Spill; All Team Members Respond. This is a Drill."**
- \_\_\_\_\_ 2.1.4    Press "ENTER"

<b>NOTE:</b> Pager activation can be delayed up to 5 minutes depending on pager system status.
--

- \_\_\_\_\_ 2.1.5    Monitor the confirmation pagers located at the Quiktel Key Pad to verify proper pager activation.

**HazMat Emergency Response Team Activation  
and Emergency Telephone/Pager Numbers**

2.2

**IF** the Quiktel Key Pad is unavailable, dial 8-777-8091 and enter your phone number (e.g., 803-831-3250), and press #. The HazMat Response Team duty person will return your call and make additional call-outs as necessary to ensure team response.

**Enclosure 4.4**  
**HazMat Emergency Response Team Activation**  
**and Emergency Telephone/Pager Numbers**

RP/0/B/5000/008

Page 3 of 3

**1. HazMat Emergency Response Team**

<u>Name</u>	<u>Off-Site Pager</u>
Tim Daniels	8-777-4619
Cleve Brown	8-777-4682
Richard Flowers	8-778-4667
David Hord	8-778-7974
Ronnie Bangle	8-778-7975
John Williams	8-778-7976
Eddie Benfield	8-777-7272
Andy Miller	8-778-7119
Tom Christensen	8-778-7979
Jasper Armstrong	8-777-7297
Jamie Andrews	8-778-7978
John Bailes	8-778-7184
Roy Hembree	8-778-5839
Rick Tack	8-778-4964
Robin Caskey	8-778-2444
Larry Berry	8-778-5884
Wayne Jarman	8-778-7125
Bill Edmunds	8-778-7141
Chad Eurey	8-778-7121



**Enclosure 4.5**  
**Oil Spill Response Team Activation**

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Page 1 of 1

- NOTES:**
1. The Oil Spill Response Team will call the Control Room to determine any personnel or radiological safety hazards associated with their response to the Site.
  2. The Oil Spill Response Team will respond to the Water Chemistry Building unless the Control Room advises them otherwise.
  3. Pager activation can be delayed up to 5 minutes depending on pager system status.

**1. Oil Spill Response Team Notification For An Actual Spill**

- \_\_\_\_\_ 1.1 **IF** the Oil Spill Response Team is being called out for a drill, go to Step 2.
- 1.2 Activate the Off-Site emergency pager system Quiktel Key Pad located in the Control Room.
- \_\_\_\_\_ 1.2.1 Type in "OILSPILL" and press "ENTER"
- \_\_\_\_\_ 1.2.2 Press "M"
- \_\_\_\_\_ 1.2.3 Type in the following message:
- "Oil spill to water at CNS. All team members respond. Team leader call 803-831-5164 for safety information."**
- \_\_\_\_\_ 1.2.4 Press "ENTER"
- \_\_\_\_\_ 1.2.5 Monitor the confirmation pagers located at the Quiktel Key Pad to verify proper pager activation.
- \_\_\_\_\_ 1.3 **IF** the Quiktel Key Pad is unavailable, dial 8-778-1075 and enter your phone number (e.g., 803-831-3250), and press #. The Oil Spill Response Team will return your call.

**2. Oil Spill Response Team Notification For A Drill**

- 2.1 Activate the Off-Site emergency pager system Quiktel Key Pad located in the Simulator.
- \_\_\_\_\_ 2.1.1 Type in "OILSPILL" and press "ENTER"
- \_\_\_\_\_ 2.1.2 Press "M"
- \_\_\_\_\_ 2.1.3 Type in "This is a Drill. Oil spill to water at CNS. All team members respond. Team leader call 803-831-3000 Extension 2801 for safety information. This is a Drill."
- \_\_\_\_\_ 2.1.4 Press "ENTER"
- \_\_\_\_\_ 2.2 **IF** the Quiktel Key Pad is unavailable, dial 8-778-1075 and enter your phone number (e.g., 803-831-3250), and press #. The Oil Spill Response Team will return your call.

**Courtesy Notification to States and Counties  
for a Non-emergency Plant Event**

**NOTE:** This enclosure provides instruction for notifying state and county emergency preparedness management agencies (primary WP/EOCs) and EnergyQuest of **non-emergency** plant events by completing a Courtesy Notification Form (page 4 of 4) and faxing it to each agency, then verifying its receipt with a follow-up phone call. {PIP 0-C00-01689}

## 1. Complete the Courtesy Notification Form as follows:

\_\_\_\_\_ 1.1 Provide the time and date of:

- Notification
- Event

\_\_\_\_\_ 1.2 Mark the event(s) that describes the reason for the notification.

\_\_\_\_\_ 1.3 Describe the event briefly, especially any impact to the site (damage, impact on operations, and any requested support received from off-site agencies).

**NOTE:**

1. The confirmation code number is randomly assigned to each message. This provides a method for authenticating an offsite agency official that calls the site over normal phone lines requesting additional information about the reported event. Knowing the confirmation code number shall be the authorization for site personnel to provide information about the event to the caller.
2. Calls received over selective signal lines are considered to be secure and do not require knowledge of the confirmation code number to receive additional information about the event.

\_\_\_\_\_ 1.4 Assign a 2-digit confirmation number to the notification form.

\_\_\_\_\_ 1.5 Print the name and title of the individual authorizing the notification.

## 2. Notification by Group Fax

**NOTE:** Step 2 sends a group fax and step 3 sends the fax to agencies individually.

\_\_\_\_\_ 2.1 Notify the states and county agencies (primary WP/EOCs) of a **non-emergency** plant event(s) by completing a Courtesy Notification Form (page 4 of 4) and transmitting it to the states and counties as follows:

**Courtesy Notification to States and Counties  
for a Non-emergency Plant Event**

**NOTE:** Performing steps 2.1.1 through 2.1.3 sends the Courtesy Notification Form (page 4 of 4) to multiple locations in sequence.

- \_\_\_\_\_ 2.1.1 Place the completed form (page 4 of 4) face down into the fax machine.
- \_\_\_\_\_ 2.1.2 Press the pre-programmed one-touch speed dial pushbutton for each of the of the following agencies:
  - \_\_\_\_\_ ☐ York Co WP/EOC
  - \_\_\_\_\_ ☐ Gaston Co. WP/EOC
  - \_\_\_\_\_ ☐ Meck Co. WP
  - \_\_\_\_\_ ☐ NC WP/EOC
  - \_\_\_\_\_ ☐ SC WP/EOC
  - \_\_\_\_\_ ☐ EnergyQuest
- \_\_\_\_\_ 2.1.3 Press START
- \_\_\_\_\_ 2.2 Verify by one of the following means that the form (page 4 of 4) was received by each of the agencies:
  - \_\_\_\_\_ ☐ Selective Signal (Enclosure 1.5, Emergency Response Telephone Directory)
  - \_\_\_\_\_ ☐ Duke or Commercial Telephone (Enclosures 1.12 – 1.16, Emergency Response Telephone Directory)
- \_\_\_\_\_ 2.3 **IF** any agency did not receive the group fax, then make the courtesy notification to the agency(s) by performing step 3.
- \_\_\_\_\_ 2.4 Fax a copy of the Courtesy Notification Form (page 4 of 4) to Emergency Planning at 831-3151.
- \_\_\_\_\_ 2.5 Report any communications equipment failures to the duty Emergency Planner.

**Courtesy Notification to States and Counties  
for a Non-emergency Plant Event**

**3. Notification by Individual Fax**

- \_\_\_\_\_ 3.1 Notify the states and county agencies (primary WP/EOCs) of a **non-emergency** plant event(s) by completing a Courtesy Notification Form (page 4 of 4) and transmitting it to the states and counties as follows:

**NOTE:** Performing steps 3.1.1 through 3.1.3 sends the Courtesy Notification Form (page 4 of 4) to individual agencies one at a time.

- \_\_\_\_\_ 3.1.1 Place the completed form (page 4 of 4) face down into the fax machine.

**NOTE:** SC WP/EOC and EnergyQuest list two fax numbers. Use the fax number for sending Emergency Notifications.

- \_\_\_\_\_ 3.1.2 Enter the individual fax phone number (Enclosures 1.12 through 1.16 in the Emergency Response Phone Book) for the desired individual agency (WP/EOC). EnergyQuest fax number is listed in Enclosure 1.19, Emergency Response Telephone Directory.

- \_\_\_\_\_ 3.1.3 Press START.

- \_\_\_\_\_ 3.1.4 Repeat steps 3.1.1 through 3.1.3 until all of the desired agencies have been faxed the form (page 4 of 4).

- \_\_\_\_\_ 3.2 Verify by one of the following means that the form (page 4 of 4) was received by the agency(s):

\_\_\_\_\_ ☐ Selective Signal (Encl. 1.5, Emergency Response Telephone Directory)

\_\_\_\_\_ ☐ Duke or Commercial Telephone (Enclosures 1.12 – 1.16, Emergency Response Telephone Directory)

- \_\_\_\_\_ 3.3 Fax a copy of the completed Courtesy Notification Form (page 4 of 4) to Emergency Planning at 831-3151.

- \_\_\_\_\_ 3.4 Report any communications equipment failures to the duty Emergency Planner.

Courtesy Notification to States and Counties  
for a Non-emergency Plant EventDUKE POWER COMPANY  
CATAWBA NUCLEAR STATIONCOURTESY NOTIFICATION FORM  
NON-EMERGENCY EVENTSTime/Date Of Notification: \_\_\_\_\_ / \_\_\_\_\_Time/Date Of Event: \_\_\_\_\_ / \_\_\_\_\_Event (X):☐ Earthquake☐ Toxic Gases☐ Fatality☐ Flood☐ Civil Disturbance☐ Fire Response by  
Bethel/Newport☐ Hurricane☐ Bomb Threat☐ Medical Response  
by Ambulance☐ Ice/Snow☐ Vehicle Crash☐ HazMat /Spill  
Response☐ Tornado☐ Explosion☐ Other Events Impacting Safe  
Plant OperationDescription:

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Confirmation Code Number: \_\_\_\_\_ (This number is authentication for any off-site  
agency caller to be given information about the event).

Confirmation Phone Number: (803) 831-8185

Reported By: \_\_\_\_\_ Title: \_\_\_\_\_

# Duke Power Company PROCEDURE PROCESS RECORD

(1) ID No. RP/0/A/5000/009Revision No. 006**PREPARATION**(2) Station Catawba Nuclear Station(3) Procedure Title Collision\Explosion(4) Prepared By E. J. BundeDate 1/19/2001

(5) Requires 10CFR50.59 evaluation?

☒ Yes (New procedure or reissue with major changes)☐ No (Revision with minor changes)☐ No (To incorporate previously approved changes)(6) Reviewed By GARY C MITCHELL (QR)Date 01-21-01Cross-Disciplinary Review By Greg B. Bury (OPS) (QR) NADate 1-22-2001Reactivity Mgmt. Review By \_\_\_\_\_ (QR) NA GLMDate 01-21-01

(7) Additional Reviews

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

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

(8) Temporary Approval (if necessary)

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

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

(9) APPROVED BY Richard L SwigantDate 01/22/01**PERFORMANCE** (Compare with control copy at least once 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) Dates(s) Performed \_\_\_\_\_

Work Order Number (W/O #) \_\_\_\_\_

**COMPLETION**

(12) Procedure Completion Verification

☐ Yes ☐ N/A Check lists and/or blanks properly initialed, signed, dated, or filled in NA, as appropriate?☐ Yes ☐ N/A Listed enclosures attached?☐ Yes ☐ N/A Data sheets attached, completed, dated and signed?☐ Yes ☐ N/A Charts, graphs, etc. attached and properly dated, identified and marked?☐ Yes ☐ N/A Procedure requirements met?

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

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

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

Duke Power Company  
Catawba Nuclear Station

**Collision/Explosion**

**Multiple Use**

Procedure No.

**RP/0/A/5000/009**

Revision No.

006

Electronic Reference No.

CN005GNV

## 1. Symptoms

- 1.1 Observance of the following incident on site or near site that jeopardizes plant safety:
  - 1.1.1 Aircraft crash
  - 1.1.2 Threatening aircraft activity over facility
  - 1.1.3 Train derailment
  - 1.1.4 Vehicular collision
  - 1.1.5 Waterborne collision
  - 1.1.6 Missile impact
  - 1.1.7 Any explosion
  - 1.1.8 Any incident jeopardizing safe plant operation (i.e., toxic gas, flammable gas, etc.)

## 2. Immediate Actions

- \_\_\_ 2.1 Classify the emergency by RP/0/A/5000/001 (Classification of Emergency).
- \_\_\_ 2.2 Commence notification and/or other protective measures as directed by appropriate Emergency Response Procedure(s).
- \_\_\_ 2.3 **IF** the event involves aircraft, notify the Federal Aviation Administration at the telephone number listed in the Emergency Response Telephone Directory.
- \_\_\_ 2.4 Notify Security as applicable at 5364.

## 3. Subsequent Actions

<b>NOTE:</b> These actions may be performed concurrently as appropriate
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- \_\_\_ 3.1 Take appropriate actions per station procedures to ensure the safety of the reactor(s).
- \_\_\_ 3.2 Notify MERT for response.
- \_\_\_ 3.3 Initiate Fire Brigade response.
- \_\_\_ 3.4 Control/contain any spills using RP/0/B/5000/008, "Spill Response."
- \_\_\_ 3.5 Notify Radiation Protection if there are any radiological implications.



- 3.6 **IF** an emergency has **NOT** been declared, notify York County Emergency Management about the event through the York County 911 Telecommunicator and as necessary, request emergency response support. {PIP 0-C00-01689}

**NOTE:**

1. A request for emergency response support (except an ambulance) from an off-site agency requires a 4-hour notification of the NRC as an "Off-site Notification" per RP/0/B/5000/013 (NRC Notification Requirements).
2. A request for ambulance support for a "contaminated injury" is an 8-hour notification and the request for transport of a "clean injury" does not require a NRC notification.

- 3.7 **IF** emergency response support from York County Emergency Management is requested **AND** an emergency has **NOT** been declared, notify the NRC under the 4-hour notification requirement for off-site notifications.

- 3.8 Notify other applicable outside agencies as necessary at the telephone numbers listed in the Emergency Response Telephone Directory.

- 3.9 **IF** an emergency has **NOT** been declared for this event **AND** the NRC has **NOT** been notified of this event, perform the following:

3.9.1 Notify the duty Emergency Planner.

3.9.2 Notify the Community Relations duty person.

3.9.3 Make a courtesy notification to the states and counties using Enclosure 4.1.

#### 4. Enclosures

- 4.1 Courtesy Notification to States and Counties for a Non-emergency Plant Event

**Courtesy Notification to States and Counties  
for a Non-emergency Plant Event**

**NOTE:** This enclosure provides instruction for notifying state and county emergency preparedness management agencies (primary WP/EOCs) and EnergyQuest of **non-emergency** plant events by completing a Courtesy Notification Form (page 4 of 4) and faxing it to each agency, then verifying its receipt with a follow-up phone call. {PIP 0-C00-01689}

## 1. Complete the Courtesy Notification Form as follows:

\_\_\_\_\_ 1.1 Provide the time and date of:

- Notification
- Event

\_\_\_\_\_ 1.2 Mark the event(s) that describes the reason for the notification.

\_\_\_\_\_ 1.3 Describe the event briefly, especially any impact to the site (damage, impact on operations, and any requested support received from off-site agencies).

**NOTE:**

1. The confirmation code number is randomly assigned to each message. This provides a method for authenticating an offsite agency official that calls the site over normal phone lines requesting additional information about the reported event. Knowing the confirmation code number shall be the authorization for site personnel to provide information about the event to the caller.
2. Calls received over selective signal lines are considered to be secure and do not require knowledge of the confirmation code number to receive additional information about the event.

\_\_\_\_\_ 1.4 Assign a 2-digit confirmation number to the notification form.

\_\_\_\_\_ 1.5 Print the name and title of the individual authorizing the notification.

## 2. Notification by Group Fax

**NOTE:** Step 2 sends a group fax and step 3 sends the fax to agencies individually.

\_\_\_\_\_ 2.1 Notify the states and county agencies (primary WP/EOCs) of a **non-emergency** plant event(s) by completing a Courtesy Notification Form (page 4 of 4) and transmitting it to the states and counties as follows:

**Courtesy Notification to States and Counties  
for a Non-emergency Plant Event**

**NOTE:** Performing steps 2.1.1 through 2.1.3 sends the Courtesy Notification Form (page 4 of 4) to multiple locations in sequence.

\_\_\_\_\_ 2.1.1 Place the completed form (page 4 of 4) face down into the fax machine.

2.1.2 Press the pre-programmed one-touch speed dial pushbutton for each of the of the following agencies:

- \_\_\_\_\_ ☐ York Co WP/EOC
- \_\_\_\_\_ ☐ Gaston Co. WP/EOC
- \_\_\_\_\_ ☐ Meck Co. WP
- \_\_\_\_\_ ☐ NC WP/EOC
- \_\_\_\_\_ ☐ SC WP/EOC
- \_\_\_\_\_ ☐ EnergyQuest

\_\_\_\_\_ 2.1.3 Press START

2.2 Verify by one of the following means that the form (page 4 of 4) was received by each of the agencies:

- \_\_\_\_\_ ☐ Selective Signal (Enclosure 1.5, Emergency Response Telephone Directory)
- \_\_\_\_\_ ☐ Duke or Commercial Telephone (Enclosures 1.12 – 1.16, Emergency Response Telephone Directory)

\_\_\_\_\_ 2.3 **IF** any agency did not receive the group fax, then make the courtesy notification to the agency(s) by performing step 3.

\_\_\_\_\_ 2.4 Fax a copy of the Courtesy Notification Form (page 4 of 4) to Emergency Planning at 831-3151.

\_\_\_\_\_ 2.5 Report any communications equipment failures to the duty Emergency Planner.

**Courtesy Notification to States and Counties  
for a Non-emergency Plant Event**

**3. Notification by Individual Fax**

- \_\_\_\_\_ 3.1 Notify the states and county agencies (primary WP/EOCs) of a **non-emergency** plant event(s) by completing a Courtesy Notification Form (page 4 of 4) and transmitting it to the states and counties as follows:

**NOTE:** Performing steps 3.1.1 through 3.1.3 sends the Courtesy Notification Form (page 4 of 4) to individual agencies one at a time.

- \_\_\_\_\_ 3.1.1 Place the completed form (page 4 of 4) face down into the fax machine.

**NOTE:** SC WP/EOC and EnergyQuest list two fax numbers. Use the fax number for sending Emergency Notifications.

- \_\_\_\_\_ 3.1.2 Enter the individual fax phone number (Enclosures 1.12 through 1.16 in the Emergency Response Phone Book) for the desired individual agency (WP/EOC). EnergyQuest fax number is listed in Enclosure 1.19, Emergency Response Telephone Directory.

- \_\_\_\_\_ 3.1.3 Press START.

- \_\_\_\_\_ 3.1.4 Repeat steps 3.1.1 through 3.1.3 until all of the desired agencies have been faxed the form (page 4 of 4).

- 3.2 Verify by one of the following means that the form (page 4 of 4) was received by the agency(s):

- \_\_\_\_\_ ☐ Selective Signal (Encl. 1.5, Emergency Response Telephone Directory)

- \_\_\_\_\_ ☐ Duke or Commercial Telephone (Enclosures 1.12 – 1.16, Emergency Response Telephone Directory)

- \_\_\_\_\_ 3.3 Fax a copy of the completed Courtesy Notification Form (page 4 of 4) to Emergency Planning at 831-3151.

- \_\_\_\_\_ 3.4 Report any communications equipment failures to the duty Emergency Planner.

Courtesy Notification to States and Counties  
for a Non-emergency Plant Event

Page 4 of 4

DUKE POWER COMPANY  
CATAWBA NUCLEAR STATION

COURTESY NOTIFICATION FORM  
NON-EMERGENCY EVENTS

Time/Date Of Notification: \_\_\_\_\_ / \_\_\_\_\_

Time/Date Of Event: \_\_\_\_\_ / \_\_\_\_\_

Event (X):

- |                                     |  |   |
|-------------------------------------|--|---|
| <input type="checkbox"/> Earthquake | <input type="checkbox"/> Toxic Gases       | <input type="checkbox"/> Fatality                                       |
| <input type="checkbox"/> Flood      | <input type="checkbox"/> Civil Disturbance | <input type="checkbox"/> Fire Response by<br>Bethel/Newport             |
| <input type="checkbox"/> Hurricane  | <input type="checkbox"/> Bomb Threat       | <input type="checkbox"/> Medical Response<br>by Ambulance               |
| <input type="checkbox"/> Ice/Snow   | <input type="checkbox"/> Vehicle Crash     | <input type="checkbox"/> HazMat /Spill<br>Response                      |
| <input type="checkbox"/> Tornado    | <input type="checkbox"/> Explosion         | <input type="checkbox"/> Other Events Impacting Safe<br>Plant Operation |

Description:

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Confirmation Code Number: \_\_\_\_\_ (This number is authentication for any off-site  
agency caller to be given information about the event).

Confirmation Phone Number: (803) 831-8185

Reported By: \_\_\_\_\_ Title: \_\_\_\_\_

Duke Power Company  
PROCEDURE PROCESS RECORD(1) ID No. RP/0/B/5000/013Revision No. 027

## PREPARATION

- (2) Station Catawba Nuclear Station
- (3) Procedure Title NRC Notification Requirements
- (4) Prepared By E. T. Brindle Date 1/18/2001
- (5) Requires 10CFR50.59 evaluation?  
☒ Yes (New procedure or reissue with major changes)  
☐ No (Revision with minor changes)  
☐ No (To incorporate previously approved changes)
- (6) Reviewed By G. A. Mitchell (QR) Date 1/21/2001  
Cross-Disciplinary Review By \_\_\_\_\_ (QR) NA GWM Date 1/21/2001  
Reactivity Mgmt. Review By \_\_\_\_\_ (QR) NA GWM Date 1/21/2001
- (7) Additional Reviews  
Reviewed By Randall D. Hard Date 1/22/2001  
Reviewed By \_\_\_\_\_ Date \_\_\_\_\_
- (8) Temporary Approval (if necessary)  
By \_\_\_\_\_ (SRO/QR) Date \_\_\_\_\_  
By \_\_\_\_\_ (QR) Date \_\_\_\_\_
- (9) APPROVED BY Richard L. Sweigart Date 1/22/2001

## PERFORMANCE (Compare with control copy at least once 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) Dates(s) Performed \_\_\_\_\_  
Work Order Number (W/O #) \_\_\_\_\_

## COMPLETION

- (12) Procedure Completion Verification

- |                              |                              |   |
|------------------------------|------------------------------|---|
| <input type="checkbox"/> Yes | <input type="checkbox"/> N/A | Check lists and/or blanks properly initialed, signed, dated, or filled in NA, as appropriate? |
| <input type="checkbox"/> Yes | <input type="checkbox"/> N/A | Listed enclosures attached?   |
| <input type="checkbox"/> Yes | <input type="checkbox"/> N/A | Data sheets attached, completed, dated and signed?  |
| <input type="checkbox"/> Yes | <input type="checkbox"/> N/A | Charts, graphs, etc. attached and properly dated, identified and marked?                      |
| <input type="checkbox"/> Yes | <input type="checkbox"/> N/A | Procedure requirements met?   |

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

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

- (14) Remarks (attach additional pages, if necessary)

Duke Power Company  
Catawba Nuclear Station

**NRC Notification Requirements**

**Multiple Use**

Procedure No.

RP/0/B/5000/013

Revision No.

027

Electronic Reference No.

CN005GO5

## 1. Symptoms

**NOTE:** Unless otherwise noted, the terms Tech Spec or Technical Specifications refer to both Unit 1 and Unit 2 Technical Specifications.

- 1.1 Plant conditions requiring Immediate, 1-hour, 4-hour, 8-hour, 24-hour, 30 day **OR** 60 day NRC notification in accordance with the following:
  - 1.1.1 10CFR20.1906
  - 1.1.2 10CFR20.2202
  - 1.1.3 - 10CFR26.73
  - 1.1.4 10CFR50.36
  - 1.1.5 10CFR50.72
  - 1.1.6 10CFR70.52
  - 1.1.7 10CFR73.71
  - 1.1.8 Declaration of any emergency classification
  - 1.1.9 Security or Safeguards Event
- 1.2 All non-emergency notifications to the NRC (1.1.1 through 1.1.7 and 1.1.9) where no other notification is required shall be made to the state and county emergency preparedness management agencies as courtesy notifications. Community Relations shall be notified of all "courtesy" notifications to the states and counties. {PIP 0-C00-01689}

## 2. Immediate Actions

- 2.1 Determine the appropriate NRC notification from the following sources:

- Enclosure 4.1, "Events Requiring Immediate NRC Notification"
- Enclosure 4.2, "Events Requiring 1-Hour NRC Notification"
- Enclosure 4.3, "Events Requiring 4-Hour NRC Notification"
- Enclosure 4.4, "Events Requiring 8-Hour NRC Notification"
- Enclosure 4.5, "Events Requiring 24-Hour NRC Notification"
- Enclosure 4.6, "Events Requiring 30 Day NRC Notification"
- Enclosure 4.7, "Events Requiring 60 Day NRC Notification"
- Enclosure 4.8, "List of System (ESF) Actuations for Catawba"
- NSD 201, "Reporting Requirements"
- NSD 202, "Reportability"



2.2 Select one of the following enclosures based on the circumstances of the event:

- Enclosure 4.10, "Safeguards ENS Event Report"

**OR**

- Enclosure 4.11, "Event Notification Report"

2.3 **IF** the Event Notification Report is being completed for an "Immediate" or a "1-Hour" NRC notification, perform the following:

2.3.1 - Complete the form based on available technical information

2.3.2 Mark the "MEDIA/PRESS RELEASE" block as "WILL BE."

2.3.3 Mark the other "NOTIFICATION" blocks based on the personnel/agency notified or intentions to notify.

2.4 **IF** the Event Notification Report is being completed for a "4-Hour" or "8-Hour," or "24-Hour" NRC notification, perform the following:

**NOTE:** The Controller bridge line (803-831-4011 or extension 4011) can be used in non-emergency situations to conduct a conference call. Up to 6 callers from onsite and offsite can be connected simultaneously.

2.4.1 Notify the following individuals to participate in a discussion and decision to notify the NRC, the media, and the states and counties:

- Duty Regulatory Compliance Representative (see current station duty list)
- Duty Community Relations person (see current station duty list)
- Duty Station Manager (see current station duty list)
- Duty Emergency Planner (see current duty list)
- Duty Safety/Environmental Management professional (see current duty list) for the following events:
  - ◊ On-site Fatality
  - ◊ Admission of an employee to the hospital

2.4.2 Complete the Event Notification Report based on the decision reached during the conference call.

2.5 Notify the NRC Operations Center by one of the following means:

- **Primary:** Emergency Notification System (ENS) Phone 301-816-5100

**OR**

- **Alternate:** Commercial Telephones:

- ◊ 1-800-532-3469
- ◊ 1-301-951-0550
- ◊ 1-301-415-0550
- ◊ 1-301-415-0553

**AND**

- **Facsimile:**

- ◊ 1-301-816-5151
- ◊ 1-800-449-3694

2.6 **IF** requested by the NRC Operations Center, maintain continuous communications with them.

### 3. Subsequent Actions

**NOTE:** Person to person contact is required in the following step to ensure newsworthy information is consistently known and understood.

3.1 Ensure the following individuals are notified:

- • Duty Regulatory Compliance Representative (see current station duty list)
- • Duty NRC Resident Inspector (see current station duty list)
- • Duty Station Manager (see current station duty list)
- • Duty Emergency Planner (see current duty list)
- • Duty Safety/Environmental Management Professional (see current duty list) for the following events:
  - ◊ On-Site Fatality
  - ◊ Admission of an employee to the hospital

3.2 **IF** an ENS Notification requires retraction, follow the guidance in Enclosure 4.12, ENS Notification Retraction.

**NOTE:** Notification of state and county emergency preparedness management agencies using the following step is a "courtesy" notification.

- 3.3 **IF** the NRC is being notified of a plant condition **AND** an emergency has **NOT** been declared, notify the state and county emergency preparedness management agencies and Community Relations by referring to Enclosure 4.9. {PIP 0-C00-01689}
- 3.4 Forward a copy of the completed procedure to the Emergency Planning Group.
- 3.5 Forward the original signed completed procedure to Document Management.

#### 4. Enclosures -

- 4.1 Events Requiring Immediate NRC Notification
- 4.2 Events Requiring 1-Hour NRC Notification
- 4.3 Events Requiring 4-Hour NRC Notification
- 4.4 Events Requiring 8-Hour NRC Notification
- 4.5 Events Requiring 24-Hour NRC Notification
- 4.6 Events Requiring 30 Day NRC Notification
- 4.7 Events Requiring 60 Day NRC Notification
- 4.8 List of System (ESF) Actuations for Catawba
- 4.9 Courtesy Notification to States and counties of Non-emergency Plant Conditions
- 4.10 Safeguards ENS Event Report
- 4.11 Event Notification Report
- 4.12 ENS Notification Retraction

**Enclosure 4.1**

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**Events Requiring IMMEDIATE NRC Notification**

Complete the reporting requirements for the following events as soon as practical after the occurrence becomes known to the licensee:

10CFR Section	Event Description	Reporting Requirement
10CFR20.1906  <b>Transportation events involving receiving and opening packages</b>	Events involving receiving and opening packages when removable radioactive surface contamination of the package (as determined by Radiation Protection) exceeds the limits of 10CFR71.87(i) or when external radiation levels (as determined by Radiation Protection) exceed the limits of 10CFR71.47	Notify the final delivery carrier.  Notify the Region II Administrator at 404-562-4400. An Emergency Notification System (ENS) phone call does not need to be made unless specified by Region II.  There is not an enclosure for reporting to Region II pursuant to 10CFR20.1906(d).
10CFR20.2201a(i)  <b>Material/Exposure events involving theft or loss of stolen licensed material</b>	Events involving any lost, stolen, or missing licensed material in an aggregate quantity equal to or greater than 1,000 times the quantity specified in Appendix C to 10CFR20.1001 - 20.2401 (as determined by Radiation Protection) under such circumstances that it appears that an exposure could result to persons in unrestricted areas.	Notify the NRC Operations Center
10CFR20.2202  <b>Material/Exposure events involving radiological exposure</b>	Any event involving byproduct, source, or special nuclear material that may have caused or threatens to cause an individual to receive any of the following: <ul style="list-style-type: none"><li>• A total effective dose equivalent of 25 rems or more</li><li>• An eye dose equivalent of 75 rems or more</li><li>• A shallow-dose equivalent to the skin or extremities of 250 rads or more</li><li>• May have caused or threatens to cause the release of radioactive material, inside or outside of a restricted area, so that, had an individual been present for 24 hours, the individual could have received an intake five times the occupational annual limit on intake (does not apply to locations where personnel are not normally stationed during routine operations).</li></ul>	Notify the NRC Operations Center

**Enclosure 4.1**

**Events Requiring IMMEDIATE NRC Notification**

RP/0/B/5000/013  
Page 2 of 2

Complete the reporting requirements for the following events as soon as practical after the occurrence becomes known to the licensee

10CFR Section	Event Description	Reporting Requirement
10CFR50.72  <b>Emergency Classification Notifications</b>	<ul style="list-style-type: none"> <li>• Declared emergency classification as specified in RP/0/A/5000/001, "Classification of Emergency".</li> <li>• Change from one emergency classification to another</li> <li>• Termination of an emergency classification</li> <li>• Any further degradation in the level of safety of the plant or other worsening plant conditions, including those that require the declaration of any of the emergency classes, if such a declaration has not been previously made</li> <li>• The results of ensuing evaluations or assessments of plant conditions</li> <li>• The effectiveness of response or protective measures taken.</li> <li>• Information related to plant behavior that is not understood</li> <li>• As a courtesy in situations deemed necessary.</li> </ul>	<p>Notify the NRC Operations Center <u>immediately</u> after notification of the appropriate state or local agencies and not later than 1 hour after the time one of the emergency classes is declared.</p> <p>Activate the Emergency Response Data System (ERDS) as soon as possible but not later than one hour after declaring an Alert or higher emergency classification.</p>

**Enclosure 4.2**

**Events Requiring 1-HOUR NRC Notification**

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Page 1 of 2

Complete the reporting requirements for the following events as soon as practical and in all cases within 1 hour after the occurrence becomes known to the licensee:

10CFR Section	Event Description	Reporting Requirement
10CFR50.72(b)(2)(i)  <b>TS Deviation (10CFR50.54(x) Declarations)</b>	<ul style="list-style-type: none"> <li>Reasonable action that departs from a license condition or a technical specification may be taken in an emergency when this action is immediately needed to protect the health and safety of the public and no action consistent with the license condition or technical specification that can provide adequate or equivalent protection is immediately apparent.</li> <li>Deviation from the intent of an emergency procedure <u>constitutes</u> a 10CFR50.54(x) action.</li> <li>Actions taken per 10CFR50.54(x) shall be approved, as a minimum, by a Licensed Senior Reactor Operator prior to taking such action.</li> <li>10CFR50.54(x) decisions shall be documented in the Reactor Operators Logbook and the TSC Logbook.</li> <li>If not reported as a declaration of an emergency classification, the NRC shall be notified as soon as practical but always within one hour of the occurrence of a 10CFR50.54(x) action.</li> </ul> <p align="center">{ PIP 2-C96-0273 }</p>	Notify the NRC Operations Center

**Enclosure 4.2****Events Requiring 1-HOUR NRC Notification**RP/0/B/5000/013  
Page 2 of 2

Complete the reporting requirements for the following events as soon as practical and in all cases within 1 hour after the occurrence becomes known to the licensee:

10CFR Section	Event Description	Reporting Requirement
10CFR70.52  <b>Accidental criticality or loss or theft or attempted theft of special nuclear material</b>	Events involving accidental criticality or loss or theft or attempted theft of special nuclear material <ul style="list-style-type: none"><li>Any case of accidental criticality or any loss, other than normal operating loss, of special nuclear material</li><li>Any loss or theft or unlawful diversion of special nuclear material or any incident in which an attempt has been made or is believed to have been made to commit a theft or unlawful diversion of such material</li></ul>	Notify the NRC Operations Center
10CFR73.71  <b>Physical protection of plant and materials</b>	Events involving physical protection of plant and materials <ul style="list-style-type: none"><li>The loss of any shipment of special nuclear material or spent fuel (also notify the NRC Operations Center within 1 hour after recovery of or accounting for such lost shipment)</li><li>Safeguards events as determined by Security personnel</li></ul>	Notify the NRC Operations Center.  Notify the NRC Operations Center of significant supplemental information, which becomes available.

Enclosure 4.3

Events Requiring 4-HOUR NRC Notification

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Page 1 of 2

Complete the reporting requirements for the following events as soon as practical and in all cases within 4 hours after the occurrence becomes known to the licensee:

10CFR Section	Event Description	Reporting Requirement
10CFR50.72(b)(2)(i)  <b>Initiation of any plant shutdown required by Technical Specifications</b>	<ul style="list-style-type: none"><li>Initiation of a shutdown is defined as: "A reduction in power required by an Action statement of Technical Specifications to enter Mode 3."</li><li>Shutdown is defined (for reporting requirements) as: "Mode 3 and below from Mode 1 or Mode 2."</li><li>Cooldown to comply with an Action statement of Technical Specifications does not constitute "Shutdown initiation of any plant shutdown." reporting requirements.</li></ul> <p>Example: If the unit is already shut down and a cooldown is required to comply with a Technical Specification ACTION statement, no further reporting requirements apply because of the cooldown</p>	Notify the NRC Operations Center
<b>S/G Tube Integrity Technical Specification</b>	Notify the NRC of Steam Generator Tube Plugging in accordance with Technical Specifications 5.5.9, Table 5.5.2.	Notify the NRC Operations Center



### Enclosure 4.3

#### Events Requiring 4-HOUR NRC Notification

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Page 2 of 2

Complete the reporting requirements for the following events as soon as practical and in all cases within 4 hours after the occurrence becomes known to the licensee:

10CFR Section	Event Description	Reporting Requirement
10CFR50.72(b)(2)(iv)(A)  <b>ECCS discharge into the Reactor Coolant System</b>	<p>Any event that results or should have resulted in ECCS discharge into the reactor coolant system as a result of a valid signal except when the actuation results from and is part of a pre-planned sequence during testing or reactor operation.</p> <ul style="list-style-type: none"> <li><u>Valid</u> signal refers to those signals automatically initiated by measurement of an actual physical system parameter that was within the established setpoint band of the sensor that provides the signal to the protection system logic, or manually initiated in response to plant conditions. Valid signals also include passive system actuations that occur as a function of system conditions like differential pressure (i.e., cold leg accumulators) whereby no SSPS or other electrical signal is involved. The validity of an ECCS signal may not be determined within 1 hour; ECCS signals that result or should have resulted in injections should be considered valid until firm evidence proves otherwise.</li> <li><u>Invalid</u> ECCS injections are still considered a System actuation, but are <b>NOT</b> reportable to the NRC per 10 CFR 50.72. It is still reportable under 10 CFR 50.73 as an LER. <b>(Refer to Enclosure 4.8 for guidance as to what constitutes a System actuation.)</b></li> </ul>	Notify the NRC Operations Center
10CFR50.72(b)(2)(iv)(B)  <b>RPS Actuation</b>	Any event or condition that results in actuation of the reactor protection system (RPS) when the reactor is <b>critical</b> except when the actuation is part of a pre-planned sequence during testing or reactor operation.	Notify the NRC Operations Center
10CFR50.72(b)(2)(xi)  <b>Offsite Notification (News Release)</b>	Any event or situation related to the health and safety of the public or on-site personnel, or protection of the environment, for which a news release is planned or notification to other government agencies has been or will be made. Such an event may include an on-site fatality or inadvertent release of radioactively contaminated materials	Notify the NRC Operations Center

## Enclosure 4.4

### Events Requiring 8-HOUR NRC Notification

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Complete the reporting requirements for the following events as soon as practical and in all cases within 8 hours after the occurrence becomes known to the licensee:

10CFR Section	Event Description	Reporting Requirement
10CFR50.72(b)(3)(ii)  <b>Degraded Condition</b>	Any event or condition that results in: A. the condition of the plant, including its principal safety barriers, being seriously degraded or B. The Nuclear Power plant being in an unanalyzed condition that significantly degrades plant safety.	Notify the NRC Operations Center
10CFR50.72(b)(3)(iv)(A)  <b>System Actuation</b>	Any event of condition that results in <b>valid</b> actuation of any of the systems listed in Enclosure 4.8 of this procedure, except when the actuation results from and is part of a pre-planned sequence during testing or plant operation.	Notify the NRC Operations Center
10CFR50.72(b)(3)(v)  <b>Safety Function Prevented From Functioning</b>	Any event or condition that <b>at the time of discovery</b> could have prevented the fulfillment of the safety function of structures or systems needed to:  A. shut down the reactor and maintain it in a safe shutdown condition,  B. remove residual heat,  C. control the release of radioactive material, or  D. mitigate the consequences of an accident	Notify the NRC Operations Center

**Enclosure 4.4**

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**Events Requiring 8-HOUR NRC Notification**

Complete the reporting requirements for the following events as soon as practical and in all cases within 8 hours after the occurrence becomes known to the licensee:

10CFR Section	Event Description	Reporting Requirement
10CFR50.72(b)(3)(xii)  <b>Offsite Medical (Contaminated Injury)</b>	Any event requiring the transport of a radioactively contaminated person to an off-site medical facility for treatment	Notify the NRC Operations Center
10CFR50.72(b)(3)(xiii)  <b>Major loss of emergency assessment capability or communications capability or sirens</b>	<p>Any event that results in a major loss of emergency assessment capability or communications capability (e.g., significant portion of control room indication, Emergency Notification System (ENS), Health Physics Network (HPN), unavailability of TSC or off-site notification system (i.e., loss of 22 (25%) or more of the plant's Emergency Planning Zone sirens for more than one hour)</p> <ul style="list-style-type: none"><li>• Should either or both of the emergency communications subsystems (ENS and HPN) fail, the NRC Operations Center should be so informed over normal commercial telephone lines. When notifying the NRC Operations Center, licensees should use the backup commercial telephone numbers provided.</li><li>• <u>If the NRC Operations Center notifies the licensee</u> that an ENS or HPN line is inoperable, a report is not required. The Operations Center contacts the appropriate repair organization.</li></ul>	Notify the NRC Operations Center

Enclosure 4.5

RP/0/B/5000/013

Events Requiring 24-HOUR NRC Notification

Page 1 of 3

Complete the reporting requirements for the following events as soon as practical and in all cases within 24 hours after the occurrence becomes known to the licensee:

10CFR Section	Event Description	Reporting Requirement
10CFR20.2202  <b>Radiological Exposure</b>	<p>Any event involving loss of control of licensed material that may have caused, or threatens to cause an individual to receive, in a period of 24 hours</p> <ul style="list-style-type: none"><li>• A total effective dose equivalent exceeding 5 rems, or</li><li>• An eye dose equivalent exceeding 15 rems, or</li><li>• A shallow-dose equivalent to the skin or extremities exceeding 50 rems</li></ul> <p>Or that may have caused, or threatens to cause the release of radioactive material, inside or outside of a restricted area, so that, had an individual been present for 24 hours, the individual could have received an intake in excess of one occupational annual limit on intake (does not apply to locations where personnel are not normally stationed during routine operations).</p>	Notify the NRC Operations Center

**Enclosure 4.5**

**Events Requiring 24-HOUR NRC Notification**

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Page 2 of 3

Complete the reporting requirements for the following events as soon as practical and in all cases within 24 hours after the occurrence becomes known to the licensee:

10CFR26.73  <b>Fitness For Duty</b>	Significant Fitness For Duty events including: <ul style="list-style-type: none"><li>• Sale, use, or possession of illegal drugs within the protected area and</li><li>• Any acts by any person licensed under 10CFR55 to operate a power reactor or by any supervisory personnel assigned to perform duties within the scope of this Part<ul style="list-style-type: none"><li>• Involving the sale, use, or possession of a controlled substance,</li><li>• Resulting in confirmed positive tests on such persons,</li><li>• Involving use of alcohol within the protected area, or</li><li>• Resulting in a determination of unfitness for scheduled work due to the consumption of alcohol</li></ul></li></ul>	Notify the NRC Operations Center
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**Enclosure 4.5**

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**Events Requiring 24-HOUR NRC Notification**

Complete the reporting requirements for the following events as soon as practical and in all cases within 24 hours after the occurrence becomes known to the licensee:

<b>Operating License Condition Deviations</b>	<p>Operating license condition deviations requiring a 24-hour report</p> <ul style="list-style-type: none"><li>• Catawba must implement and maintain in effect all provisions of the approved fire protection program as described in the UFSAR and the SLC's. Violations of this program are potentially reportable as a 24-hour notification. Regulatory Compliance should always be notified concerning potentially reportable fire protection events.</li><li>• Duke Power Company, Catawba Nuclear Site, is authorized to operate the facility at reactor core power levels not in excess of 3411 megawatts thermal (100% power) in accordance with the conditions specified in the License. Exceeding actual 100% power level is potentially a 24-hour notification as required by the Facility Operating License. Regulatory Compliance should be consulted to help determine the reportability when power level exceeds 100%.</li></ul>	<p>Notify the NRC Operations Center</p>
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**Enclosure 4.6**

**Events Requiring 30-DAY NRC Notification**

RP/0/B/5000/013

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Complete the reporting requirements for the following events as soon as practical and in all cases within 30 days after the occurrence becomes known to the licensee:

10CFR Section	Event Description	Reporting Requirement
10CFR20.2201 <b>Theft, Loss or Missing Licensed Material</b>	All licensed material in a quantity greater than ten times the quantity specified in Appendix C to 10CFR20.1001 - 20.2401 (as determined by Radiation Protection) that is still missing at this time	Notify the NRC Operations Center via the Emergency Notification System

**Enclosure 4.7**

**Events Requiring 60 DAY NRC REPORT**

RP/0/B/5000/013

Page 1 of 1

Complete the reporting requirements for the following events as soon as practical and in all cases within 60 days after the occurrence becomes known to the licensee:

10CFR Section	Event Description	Reporting Requirement
<b>Licensee Event Report (LER)</b>	Any event which requires the preparation of a Licensee Event Report (the event may or may not be reportable under 10CFR50.72).	<p>Notify the Duty Regulatory Compliance Engineer</p> <p>The Shift Work Manager shall ensure a Problem Investigation Process (PIP) report for a more significant event (MSE) is generated and forwarded to the Safety Review Group to accurately reflect the condition.</p> <p>LER submitted to NRC.</p>
10CFR50.73(a)(1)	An <b>invalid</b> actuation of any of the systems listed in Enclosure 4.8 reported under 10CFR50.73(a)(2)(iv), other than actuation of the reactor protection system (RPS) when the reactor is critical.	The licensee may, at its option, provide a telephone notification to the NRC Operations Center within 60 days after discovery of the event instead of submitting a written LER.



## List of System (ESF) Actuations for Catawba

1. Any reactor trip (P-4)
2. Safety injection (UFSAR 6.3.1, 6.3.2)
  - A. NV charging path
  - B. NI charging path
  - C. ND charging path
  - D. CLA injection
  - E. D/G sequencer activation
  - F. Reactor trip signal
  - G. FWST - containment sump ND suction swap
    - If a second NV pump is manually started in order to maintain NC inventory, this is also a system actuation.
3. Containment spray (UFSAR 6.2.2)
  - A. NS pump start/valve alignment
  - B. Actual spraydown of containment
4. Containment isolation (UFSAR 6.2.4)
  - A. Phase A (St)
  - B. Phase B (Sp)
  - C. Closure of the VP or VQ valves upon receipt of a high radiation signal from EMF-38, 39, or 40 does not constitute a reportable system actuation during any mode.
  - D. NW system injection
5. Steam line isolation (UFSAR 10.3.2)
  - A. Individual steam line valve closure\*
  - B. System isolation
  - C. Actuation of P-12 to close steam dumps is **NOT** a system actuation

\* Individual component activation due to component failure not reportable per this requirement

**Enclosure 4.8**  
**List of System (ESF) Actuations for Catawba**

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6. Auxiliary feedwater system

- A. Auxiliary feedwater pump start, automatic or manual, unless the start was the expected result of a controlled (documented) test or procedure.

Example: A feedwater transient is in progress with S/G levels decreasing toward the reactor trip setpoint. If the operator starts a CA pump(s) to supplement CF flow and prevent the trip, the start is reportable under the 4-hour NRC notification criterion.

- B. Pump suction swap to RN

7. Emergency AC Electrical Power Systems

- A. Diesel Generator starts, automatic or manual, unless the start was the expected result of a controlled (documented) test or procedure.

8. Ice condenser lower inlet door opening as a result of unplanned mass or energy release into containment

- A. Door openings resulting from planned evolutions such as containment ventilation fan starts, personnel entries into containment, etc., **do not** constitute system actuations.

9. Combustible Gas Control in Containment

- A. Containment air return and hydrogen skimmer (VX) operation (UFSAR 6.2.5.2)
1. Any unanticipated system operation
- B. Hydrogen Recombiners (UFSAR 6.2.5)
- C. Hydrogen Purge (UFSAR 6.2.5)
- D. Hydrogen Igniters (UFSAR 6.2.5)

**Courtesy Notification to States and Counties  
for a Non-emergency Plant Event**

**NOTE:** This enclosure provides instruction for notifying state and county emergency preparedness management agencies (primary WP/EOCs) and EnergyQuest of **non-emergency** plant events by completing a Courtesy Notification Form (page 4 of 4) and faxing it to each agency, then verifying its receipt with a follow-up phone call. {PIP 0-C00-01689}

**1. Complete the Courtesy Notification Form as follows:**

- \_\_\_\_\_ 1.1 Provide the time and date of:
- Notification
  - Event
- \_\_\_\_\_ 1.2 Mark the event(s) that describes the reason for the notification.
- \_\_\_\_\_ 1.3 Describe the event briefly, especially any impact to the site (damage, impact on operations, and any requested support received from off-site agencies).

**NOTE:**

1. The confirmation code number is randomly assigned to each message. This provides a method for authenticating an offsite agency official that calls the site over normal phone lines requesting additional information about the reported event. Knowing the confirmation code number shall be the authorization for site personnel to provide information about the event to the caller.
2. Calls received over selective signal lines are considered to be secure and do not require knowledge of the confirmation code number to receive additional information about the event.

- \_\_\_\_\_ 1.4 Assign a 2-digit confirmation code number to the notification form.
- \_\_\_\_\_ 1.5 Print the name and title of the individual authorizing the notification.

**2. Notification by Group Fax**

**NOTE:** Step 2 sends a group fax and step 3 sends the fax to agencies individually.

- \_\_\_\_\_ 2.1 Notify the states and county agencies (primary WP/EOCs) of a **non-emergency** plant event(s) by completing a Courtesy Notification Form (page 4 of 4) and transmitting it to the states and counties as follows:

**Courtesy Notification to States and Counties  
for a Non-emergency Plant Event**

**NOTE:** Performing steps 2.1.1 through 2.1.3 sends the Courtesy Notification Form (page 4 of 4) to multiple locations in sequence.

- \_\_\_\_\_ 2.1.1 Place the completed form (page 4 of 4) face down into the fax machine. |
- \_\_\_\_\_ 2.1.2 Press the pre-programmed one-touch speed dial pushbutton for each of the following agencies:
  - \_\_\_\_\_ ☐ York Co WP/EOC
  - \_\_\_\_\_ ☐ Gaston Co. WP/EOC
  - \_\_\_\_\_ ☐ Meck Co. WP
  - \_\_\_\_\_ ☐ NC WP/EOC
  - \_\_\_\_\_ ☐ SC WP/EOC
  - \_\_\_\_\_ ☐ EnergyQuest
- \_\_\_\_\_ 2.1.3 Press START
- \_\_\_\_\_ 2.2 Verify by one of the following means that the form (page 4 of 4) was received by each of the agencies: |
  - \_\_\_\_\_ ☐ Selective Signal (Enclosure 1.5, Emergency Response Telephone Directory)
  - \_\_\_\_\_ ☐ Duke or Commercial Telephone (Enclosures 1.12 – 1.16, Emergency Response Telephone Directory)
- \_\_\_\_\_ 2.3 Notify Community Relations duty person of the Courtesy Notification Form transmittal. |
- \_\_\_\_\_ 2.4 **IF** any agency did not receive the group fax, then make the courtesy notification to the agency(s) by performing step 3.
- \_\_\_\_\_ 2.5 Fax a copy of the Courtesy Notification Form (page 4 of 4) to Emergency Planning at 831-3151. |
- \_\_\_\_\_ 2.6 Report any communications equipment failures to the duty Emergency Planner.

**Courtesy Notification to States and Counties  
for a Non-emergency Plant Event**

**3. Notification by Individual Fax**

- \_\_\_\_\_ 3.1 Notify the states and county agencies (primary WP/EOCs) of a **non-emergency** plant event(s) by completing a Courtesy Notification Form (page 4 of 4) and transmitting it to the states and counties as follows:

**NOTE:** Performing steps 3.1.1 through 3.1.3 sends the Courtesy Notification Form (page 4 of 4) to individual agencies one at a time.

- \_\_\_\_\_ 3.1.1 Place the completed form (page 4 of 4) face down into the fax machine.

**NOTE:** SC WP/EOC and EnergyQuest list two fax numbers. Use the fax number for sending Emergency Notifications.

- \_\_\_\_\_ 3.1.2 Enter the individual fax phone number (Enclosures 1.12 through 1.16 in the Emergency Response Phone Book) for the desired individual agency (WP/EOC). EnergyQuest fax number is listed in Enclosure 1.19, Emergency Response Telephone Directory.

- \_\_\_\_\_ 3.1.3 Press START.

- \_\_\_\_\_ 3.1.4 Repeat steps 3.1.1 through 3.1.3 until all of the desired agencies have been faxed the form (page 4 of 4).

- \_\_\_\_\_ 3.2 Verify by one of the following means that the form (page 4 of 4) was received by the agency(s):

- \_\_\_\_\_ ☐ Selective Signal (Encl 1.5, Emergency Response Telephone Directory)

- \_\_\_\_\_ ☐ Duke or Commercial Telephone (Enclosures 1.12 – 1.16, Emergency Response Telephone Directory)

- \_\_\_\_\_ 3.3 Notify Community Relations duty person of the Courtesy Notification Form transmittal.

- \_\_\_\_\_ 3.4 Fax a copy of the completed Courtesy Notification Form (page 4 of 4) to Emergency Planning at 831-3151.

- \_\_\_\_\_ 3.5 Report any communications equipment failures to the duty Emergency Planner.

Courtesy Notification to States and Counties  
for a Non-emergency Plant EventDUKE POWER COMPANY  
CATAWBA NUCLEAR STATIONCOURTESY NOTIFICATION FORM  
NON-EMERGENCY EVENTSTime/Date Of Notification: \_\_\_\_\_ / \_\_\_\_\_Time/Date Of Event: \_\_\_\_\_ / \_\_\_\_\_Event (X):☐ Earthquake☐ Toxic Gases☐ Fatality☐ Flood☐ Civil Disturbance☐ Fire Response by  
Bethel/Newport☐ Hurricane☐ Bomb Threat☐ Medical Response  
by Ambulance☐ Ice/Snow☐ Vehicle Crash☐ HazMat /Spill  
Response☐ Tornado☐ Explosion☐ Other Events Impacting Safe  
Plant OperationDescription:

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Confirmation Code Number: \_\_\_\_\_ (This number is authentication for any off-site  
agency caller to be given information about the event.).

Confirmation Phone Number: (803) 831-8185

Reported By: \_\_\_\_\_ Title: \_\_\_\_\_

**Enclosure 4.10**  
**Safeguards ENS Event Report**

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Date/Time of Notification \_\_\_\_\_

NRC Person Notified \_\_\_\_\_

State the following to the NRC Operations Center:

"This notification is made in accordance with 10CFR73.71. This is Duke Power Company's Catawba Nuclear Station in NRC Region II making the notification. "

My Name is: \_\_\_\_\_ My title is: \_\_\_\_\_

I can be reached at \_\_\_\_\_

"Your Name Please" \_\_\_\_\_

1. \*Date of occurrence: \_\_\_\_\_

2. \*Time of occurrence: \_\_\_\_\_

3. \*Power level of units:

Unit 1 \_\_\_\_\_ Unit 2 \_\_\_\_\_

\*If date and time of occurrence are not known, indicate the date and time of discovery.

4. Description of event: \_\_\_\_\_

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

5. Security response/compensatory measures established:

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

6. LLEA (Local Law Enforcement Agency) Notified? YES \_\_\_\_ NO \_\_\_\_

(If yes, name of organization and telephone number) \_\_\_\_\_

\_\_\_\_\_

**Enclosure 4.10**  
**Safeguards ENS Event Report**

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7. NRC Region II notified? YES \_\_\_\_ NO \_\_\_\_

(If yes, name of person notified) \_\_\_\_\_

8. Who to contact for more information:

\_\_\_\_\_

9. Consequences at plant:

Description of Equipment Systems Affected \_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

**NOTE:** After verbal transmission of this Enclosure, a copy should be sent by Fax to:  
NRC Operations Center - 1-301-816-5151

**APPROVED BY:** \_\_\_\_\_ **TIME/DATE:** \_\_\_\_\_  
OPERATIONS SHIFT MANAGER OR EMERGENCY COORDINATOR



**Enclosure 4.11**  
**Event Notification Report**

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Page 1 of 2

STATE: "THIS IS THE CATAWBA NUCLEAR SITE IN NRC REGION 2 MAKING AN EVENT NOTIFICATION REPORT"					
NOTIFICATION TIME/DATE	UNIT	CALLER'S NAME	CALLBACK TELEPHONE #: ENS 803-831-3920 (C/R) or 803-831-2674 (TSC)	NRC OPERATIONS OFFICER CONTACTED  NRC Report Number: _____	
EVENT TIME & ZONE _____ Region II (time) (zone)		EVENT DATE	POWER/MODE BEFORE		POWER/MODE AFTER
<b>EVENT CLASSIFICATIONS</b>		<b>1-HR NON-EMERGENCY 10CFR5072(b)(1)</b>		<b>8-HR NON-EMERGENCY</b>	
GENERAL EMERGENCY		TS Deviation pursuant to 10 CFR 50.54(x)		(ii)(A) Degraded Condition	
SITE AREA EMERGENCY		Accidental Criticality or Loss/Theft of Material		(ii)(B) Unanalyzed Condition	
ALERT		Physical Protection of Plant or Materials		(iv)(A) Valid System Actuation	
UNUSUAL EVENT				(v)(A) Safe S/D Capability	
50.72 NON-EMERGENCY (see next columns)				(v)(B) RHR Capability	
PHYSICAL SECURITY (73.71)		<b>4-HR NON-EMERGENCY 10 CFR 50.72(b)(2)</b>		(v)(C) Control of Radiological	
TRANSPORTATION (10 CFR 20)		(i) TS Required S/D		(v)(D) Accident Mitigation	
MATERIAL/EXPOSURE (10 CFR 20)		(iv)(A) ECCS Discharge to RCS		(xii) Offsite Medical	
RETRACTION		(iv)(B) RPS Actuation when Rx is critical		(xiii) Lost ENS	
OTHER		(xi) Offsite Notification		(xiii) Lost Emergency Assessment	
				(xiii) Lost Offsite Communications.	
				(xiii) Emergency Siren Inoperable	
				<b>24 HOUR NON EMERGENCY</b>	
				Radiological Exposure 10CFR20.2202	
				Fitness For Duty 10CFR26.73	
				Operating License Deviation	
EVENT DESCRIPTION (Include: Systems affected, actuations & their initiating signals, causes, effect of event on plant, actions taken or planned, PARs etc.)					
CATEGORY			INITIATION SIGNAL		
___ REACTOR TRIP			_____		
___ ESF ACTUATION			_____		
___ ECCS ACTUATION			_____		
___ SI FLOW			_____		
___ LCO			_____		
SYSTEM _____					
COMPONENT _____					
CAUSE: ___ MECHANICAL			___ ELECTRICAL		
___ PERSONNEL ERROR			___ OTHER		
Continue on Enclosures 4.11 page 2 of 2 if necessary.					
NOTIFICATIONS	YES	NO	WILL BE	ANYTHING UNUSUAL OR NOT UNDERSTOOD? <input type="checkbox"/> YES <input type="checkbox"/> NO (Explain above)	
NRC RESIDENT					
STATE(s) NC SC				DID ALL SYSTEMS FUNCTION <input type="checkbox"/> YES <input type="checkbox"/> NO AS REQUIRED? (Explain above)	
LOCAL York County Gaston County Mecklenburg County				MODE OF OPERATION UNTIL CORRECTED:	ESTIMATED RESTART DATE
OTHER GOV AGENCIES					
MEDIA/PRESS RELEASE					

**Enclosure 4.11**  
**Event Notification Report**

RP/0/B/5000/013  
Page 2 of 2

<b>RADIOLOGICAL RELEASES:</b> CHECK OR FILL IN APPLICABLE ITEMS (specific details/explanations should be covered in event description)					
LIQUID RELEASE	GASEOUS RELEASE	UNPLANNED RELEASE	PLANNED RELEASE	ONGOING	TERMINATED
MONITORED	UNMONITORED	OFFSITE RELEASE	T.S. EXCEEDED	RM ALARMS	AREAS EVACUATED
PERSONNEL EXPOSED OR CONTAMINATED		OFFSITE PROTECTIVE ACTIONS RECOMMENDED		State release path in description	

**NOTE:** Contact Radiation Protection Shift to obtain the following release information.  
IF the notification is due and the information is not available, mark "Not Available" and complete the notification.

	Releases Rate (Ci/sec)	% T.S. LIMIT	HOO GUIDE	Total Activity (CI)	% T.S. LIMIT	HOO GUIDE
Noble Gas			0.1 Ci/sec			1000 CI
Iodine			10 uCi/sec			0.01 CI
Particulate			1 uCi/sec			1 mCI
Liquid (excluding tritium & dissolved noble gases)			10 uCI/min			0.1 CI
Liquid (tritium)			0.2 CI/min			5 CI
Total Activity						

CIRCLE RAD MONITORS IN ALARM	PLANT STACK (EMF 35, 36, 37)	CONDENSER/ AIR EJECTOR (EMF 33)	MAIN STEAM LINE (UNIT 1-EMF 26,27,28,29 UNIT 2-EMF 10, 11, 12,13)	SG BLOWDOWN (EMF 34)	OTHER
RAD MONITOR READINGS					
ALARM SETPOINTS: TRIP II					
% T.S. LIMIT (If applicable)		NOT APPLICABLE		NOT APPLICABLE	

<b>RCS OR SG TUBE LEAKS:</b> CHECK OR FILL IN APPLICABLE ITEMS (specific details/explanations should be covered in event description)			
LOCATION OF THE LEAK (e.g. SG#, valve, pipe, etc.):			
LEAK RATE: gpm/gpd	T.S. LIMITS EXCEEDED:	SUDDEN OR LONG TERM DEVELOPMENT:	
LEAK START DATE:	TIME	COOLANT ACTIVITY (Last Sample): PRIMARY SECONDARY-	
		Xe eq. _____ mci/mi	Xe eq. _____ mci/mi
		I eq. _____ mci/mi	I eq. _____ mci/mi

LIST OF SAFETY RELATED EQUIPMENT NOT OPERATIONAL:

EVENT DESCRIPTION (Continued from Enclosure 4.11 Page 1 of 2)

ADDITIONAL INFORMATION MAY BE ATTACHED.

APPROVED BY: \_\_\_\_\_ TIME/DATE: \_\_\_\_\_  
Operations Shift Manager/Emergency Coordinator (eastern) mm / dd / yy

**Enclosure 4.12**  
**ENS Notification Retraction**

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Page 1 of 1

In some cases, after an event or condition is reported to the NRC, it is subsequently determined that the event or condition is not reportable. The following guidance should be used when making an ENS Notification Retraction.

1. An ENS notification should be retracted via a phone call to the NRC Operations Center on the ENS telephone.
2. The retraction should include sound logical basis and explain the rationale used in determining that the event or condition is not reportable. Retractions should be reviewed by appropriate members of Operations Management, Regulatory Compliance, and/or Engineering before being transmitted to the NRC.
3. Retractions should be documented in Enclosure 4.11. Fill in the applicable sections of Enclosure 4.11. Ensure that under the "Event Classification" section the block next to "Retraction" is checked.
4. There is no set time limit for retractions. However, since most retractions occur following completion of an engineering and/or management review, it is expected that retractions would occur shortly after such review.
5. A retracted ENS report is retained in the NRC's ENS database along with the retraction.

# Duke Power Company PROCEDURE PROCESS RECORD

(1) ID No. RP/0/B/5000/026Revision No. 002**PREPARATION**(2) Station Catawba Nuclear Station(3) Procedure Title Response to Bomb Threat(4) Prepared By E. J. Beadle Date 1/19/2001

(5) Requires 10CFR50.59 evaluation?

☒ Yes (New procedure or reissue with major changes)☐ No (Revision with minor changes)☐ No (To incorporate previously approved changes)(6) Reviewed By GARY L Mitchell (QR) Date 01-21-01Cross-Disciplinary Review By Gary B. Gary (QR) NA          Date 1-22-2001Reactivity Mgmt. Review By          (QR) NA GLM Date 01-21-01

(7) Additional Reviews

Reviewed By          Date         Reviewed By          Date         

(8) Temporary Approval (if necessary)

By          (SRO/QR) Date         By          (QR) Date         (9) APPROVED BY Richard L Sweigart Date 01/22/01**PERFORMANCE** (Compare with control copy at least once 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) Dates(s) Performed         Work Order Number (W/O #)         **COMPLETION**

(12) Procedure Completion Verification

☐ Yes ☐ N/A Check lists and/or blanks properly initialed, signed, dated, or filled in NA, as appropriate?☐ Yes ☐ N/A Listed enclosures attached?☐ Yes ☐ N/A Data sheets attached, completed, dated and signed?☐ Yes ☐ N/A Charts, graphs, etc. attached and properly dated, identified and marked?☐ Yes ☐ N/A Procedure requirements met?Verified By          Date         (13) Procedure Completion Approved          Date         

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

Duke Power Company  
Catawba Nuclear Station

**Response to Bomb Threat**

**Multiple Use**

Procedure No.

RP/0/B/5000/026

Revision No.

002

Electronic Reference No.

CN005IV7

## 1. Symptoms

- 1.1 Receipt of Bomb Threat

## 2. Immediate Actions

- \_\_\_\_ 2.1 Notify and maintain communications with Security until the security event is terminated.
- 2.2 Discuss with security the need to:
- \_\_\_\_ 2.2.1 Assemble personnel
- \_\_\_\_ 2.2.2 Evacuate affected areas
- \_\_\_\_ 2.2.3 Initiate search of the station

## 3. Subsequent Actions

- \_\_\_\_ 3.1 **IF** a suspected explosive device is found, classify the event using RP/0/A/5000/001, "Classification of Emergency."
- \_\_\_\_ 3.2 Assess the situation and take actions necessary within the scope of the Catawba Nuclear Site procedures, Duke Power Company Nuclear Security and Contingency Plan, and NSD 217, "Nuclear Security Program."
- \_\_\_\_ 3.3 **IF** an emergency has **NOT** been declared, notify York County Emergency Management about the event through the York County 911 Telecommunicator and as necessary, request emergency response support. {PIP 0-C00-01689}

<p><b>NOTE:</b></p> <ol style="list-style-type: none"><li>1. A request for emergency response support (except an ambulance) from an off-site agency requires a 4-hour notification of the NRC as an "Off-site Notification" per RP/0/B/5000/013 (NRC Notification Requirements).</li><li>2. A request for ambulance support for a "contaminated injury" is an 8-hour notification and the request for transport of a "clean injury" does not require a NRC notification.</li></ol>
--

- \_\_\_\_ 3.4 **IF** emergency response support from York County Emergency Management is requested **AND** an emergency has **NOT** been declared, notify the NRC under the 4-hour notification requirement for off-site notifications.

3.5 **IF** an emergency has **NOT** been declared for this event **AND** the NRC has **NOT** been notified of this event:

\_\_\_\_\_ 3.5.1 Notify the duty Emergency Planner

\_\_\_\_\_ 3.5.2 Notify the Community Relations duty person

\_\_\_\_\_ 3.5.3 Make a courtesy notification to the states and counties using Enclosure 4.1

#### 4. Enclosures

4.1 Courtesy Notification to States and Counties for a Non-emergency Plant Event

**Courtesy Notification to States and Counties  
for a Non-emergency Plant Event**

**NOTE:** This enclosure provides instruction for notifying state and county emergency preparedness management agencies (primary WP/EOCs) and EnergyQuest of **non-emergency** plant events by completing a Courtesy Notification Form (page 4 of 4) and faxing it to each agency, then verifying its receipt with a follow-up phone call. {PIP 0-C00-01689}

## 1. Complete the Courtesy Notification Form as follows:

- \_\_\_\_\_ 1.1 Provide the time and date of:
- Notification
  - Event
- \_\_\_\_\_ 1.2 Mark the event(s) that describes the reason for the notification.
- \_\_\_\_\_ 1.3 Describe the event briefly, especially any impact to the site (damage, impact on operations, and any requested support received from off-site agencies).

**NOTE:**

1. The confirmation code number is randomly assigned to each message. This provides a method for authenticating an offsite agency official that calls the site over normal phone lines requesting additional information about the reported event. Knowing the confirmation code number shall be the authorization for site personnel to provide information about the event to the caller.
2. Calls received over selective signal lines are considered to be secure and do not require knowledge of the confirmation code number to receive additional information about the event.

- \_\_\_\_\_ 1.4 Assign a 2-digit confirmation number to the notification form.
- \_\_\_\_\_ 1.5 Print the name and title of the individual authorizing the notification.

## 2. Notification by Group Fax

**NOTE:** Step 2 sends a group fax and step 3 sends the fax to agencies individually.

- \_\_\_\_\_ 2.1 Notify the states and county agencies (primary WP/EOCs) of a **non-emergency** plant event(s) by completing a Courtesy Notification Form (page 4 of 4) and transmitting it to the states and counties as follows:



**Courtesy Notification to States and Counties  
for a Non-emergency Plant Event**

**NOTE:** Performing steps 2.1.1 through 2.1.3 sends the Courtesy Notification Form (page 4 of 4) to multiple locations in sequence.

- \_\_\_\_\_ 2.1.1 Place the completed form (page 4 of 4) face down into the fax machine.
- \_\_\_\_\_ 2.1.2 Press the pre-programmed one-touch speed dial pushbutton for each of the following agencies:
  - \_\_\_\_\_ ☐ York Co WP/EOC
  - \_\_\_\_\_ ☐ Gaston Co. WP/EOC
  - \_\_\_\_\_ ☐ Meck Co. WP
  - \_\_\_\_\_ ☐ NC WP/EOC
  - \_\_\_\_\_ ☐ SC WP/EOC
  - \_\_\_\_\_ ☐ EnergyQuest
- \_\_\_\_\_ 2.1.3 Press START
- \_\_\_\_\_ 2.2 Verify by one of the following means that the form (page 4 of 4) was received by each of the agencies:
  - \_\_\_\_\_ ☐ Selective Signal (Enclosure 1.5, Emergency Response Telephone Directory)
  - \_\_\_\_\_ ☐ Duke or Commercial Telephone (Enclosures 1.12 – 1.16, Emergency Response Telephone Directory)
- \_\_\_\_\_ 2.3 **IF** any agency did not receive the group fax, then make the courtesy notification to the agency(s) by performing step 3.
- \_\_\_\_\_ 2.4 Fax a copy of the Courtesy Notification Form (page 4 of 4) to Emergency Planning at 831-3151.
- \_\_\_\_\_ 2.5 Report any communications equipment failures to the duty Emergency Planner.

**Courtesy Notification to States and Counties  
for a Non-emergency Plant Event**

### 3. Notification by Individual Fax

- \_\_\_\_\_ 3.1 Notify the states and county agencies (primary WP/EOCs) of a **non-emergency** plant event(s) by completing a Courtesy Notification Form (page 4 of 4) and transmitting it to the states and counties as follows:

**NOTE:** Performing steps 3.1.1 through 3.1.3 sends the Courtesy Notification Form (page 4 of 4) to individual agencies one at a time.

- \_\_\_\_\_ 3.1.1 Place the completed form (page 4 of 4) face down into the fax machine.

**NOTE:** SC WP/EOC and EnergyQuest list two fax numbers. Use the fax number for sending Emergency Notifications.

- \_\_\_\_\_ 3.1.2 Enter the individual fax phone number (Enclosures 1.12 through 1.16 in the Emergency Response Phone Book) for the desired individual agency (WP/EOC). EnergyQuest fax number is listed in Enclosure 1.19, Emergency Response Telephone Directory.

- \_\_\_\_\_ 3.1.3 Press START.

- \_\_\_\_\_ 3.1.4 Repeat steps 3.1.1 through 3.1.3 until all of the desired agencies have been faxed the form (page 4 of 4).

- \_\_\_\_\_ 3.2 Verify by one of the following means that the form (page 4 of 4) was received by the agency(s):

\_\_\_\_\_ ☐ Selective Signal (Enclosure 1.5, Emergency Response Telephone Directory)

\_\_\_\_\_ ☐ Duke or Commercial Telephone (Enclosures 1.12 – 1.16, Emergency Response Telephone Directory)

- \_\_\_\_\_ 3.3 Fax a copy of the completed Courtesy Notification Form (page 4 of 4) to Emergency Planning at 831-3151.

- \_\_\_\_\_ 3.4 Report any communications equipment failures to the duty Emergency Planner.

Courtesy Notification to States and Counties  
for a Non-emergency Plant EventDUKE POWER COMPANY  
CATAWBA NUCLEAR STATIONCOURTESY NOTIFICATION FORM  
NON-EMERGENCY EVENTSTime/Date Of Notification: \_\_\_\_\_ / \_\_\_\_\_Time/Date Of Event: \_\_\_\_\_ / \_\_\_\_\_Event (X):

- |                                     |  |   |
|-------------------------------------|--|---|
| <input type="checkbox"/> Earthquake | <input type="checkbox"/> Toxic Gases       | <input type="checkbox"/> Fatality                                       |
| <input type="checkbox"/> Flood      | <input type="checkbox"/> Civil Disturbance | <input type="checkbox"/> Fire Response by<br>Bethel/Newport             |
| <input type="checkbox"/> Hurricane  | <input type="checkbox"/> Bomb Threat       | <input type="checkbox"/> Medical Response<br>by Ambulance               |
| <input type="checkbox"/> Ice/Snow   | <input type="checkbox"/> Vehicle Crash     | <input type="checkbox"/> HazMat /Spill<br>Response                      |
| <input type="checkbox"/> Tornado    | <input type="checkbox"/> Explosion         | <input type="checkbox"/> Other Events Impacting Safe<br>Plant Operation |

Description:

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Confirmation Code Number: \_\_\_\_\_ (This number is authentication for any off-site  
agency caller to be given information about the event).

Confirmation Phone Number: (803) 831-8185

Reported By: \_\_\_\_\_ Title: \_\_\_\_\_