



**Scott L. Batson**  
Vice President  
Oconee Nuclear Station

**Duke Energy**  
ON01VP | 7800 Rochester Hwy  
Seneca, SC 29672

ONS-2014-050

o: 864.873.3274  
f: 864.873.4208  
Scott.Batson@duke-energy.com

April 28, 2014

10 CFR 50.54(q)

Attn: Document Control Desk  
U.S. Nuclear Regulatory Commission  
11555 Rockville Pike  
Rockville, Maryland 20852-2746

Subject: Duke Energy Carolinas, LLC  
Oconee Nuclear Station, Units 1, 2, and 3  
Docket Nos. 50-269, -270, and -287  
Emergency Plan Implementing Procedures Manual  
Volume C, Revision 2014-010

Please find attached for your use and review copies of the revision to the Oconee Nuclear Station Emergency Plan, Implementing Procedures along with the associated revision instructions and 10 CFR 50.54(q) evaluation.

This revision is being submitted in accordance with 10 CFR 50.54(q) and does not reduce the effectiveness of the Emergency Plan or the Emergency Plan Implementing Procedures. If there are any questions or concerns pertaining to this revision please call Pat Street, Emergency Planning Manager, at 864-873-3124.

By copy of this letter, two copies of this revision are being provided to the NRC, Region II, Atlanta, Georgia.

Sincerely,

Scott L. Batson  
Vice President  
Oconee Nuclear Station

Attachments:  
Revision Instructions  
EPIP Volume C - Revision 2014-010  
10 CFR 50.54(q) Evaluation(s)

AX45  
NRR

U. S. Nuclear Regulatory Commission  
April 28, 2014

xc: w/2 copies of attachments

Mr. Victor McCree, Regional Administrator  
U.S. Nuclear Regulatory Commission - Region II  
Marquis One Tower  
245 Peachtree Center Ave., NE, Suite 1200  
Atlanta, GA 30303-1257

w/copy of attachments

Mr. James R. Hall, Project Manager  
U. S. Nuclear Regulatory Commission  
One White Flint North Mailstop O-8C2  
11555 Rockville Pike  
Rockville, MD 20852-2738  
(send via E-mail)

w/o attachments

Mr. Eddy Crowe  
NRC Senior Resident Inspector  
Oconee Nuclear Station

ELL  
EC2ZF



**OCONEE NUCLEAR STATION  
EMERGENCY PLAN IMPLEMENTING PROCEDURES  
VOLUME C**



**APPROVED:**

4 L Patt  
**Terry L. Patterson**  
**Director Nuclear Org Effectiveness**

4/22/14  
**Date Approved**

**VOLUME C  
REVISION 2014-010  
April 2014**

April 10, 2014

OCONEE NUCLEAR STATION

SUBJECT: Emergency Plan Implementing Procedures  
Volume C Revision 2014-010

Please make the following changes to the Emergency Plan Implementing  
Procedures, Volume C:

**REMOVE**

Cover Sheet Rev. 2014-009

Table of Contents  
Pages 1, 2, & 3

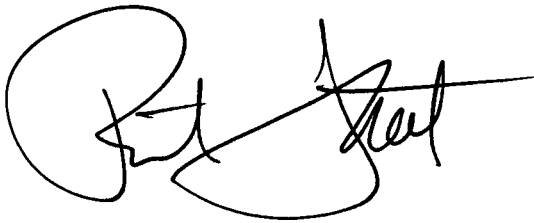
RP/0/A/1000/002 Rev 002

**INSERT**

Cover Sheet Rev. 2014-010

Table of Contents  
Pages 1, 2, & 3

RP/0/A/1000/002 Rev 003

A handwritten signature in black ink, appearing to read 'Pat Street', with a large circular flourish on the left and a horizontal line extending to the right.

Pat Street  
ONS Emergency Planning Manager

# VOLUME C

## TABLE OF CONTENTS

SH/0/B/2005/001	Emergency Response Offsite Dose Projections	Rev.	006
SH/0/B/2005/002	Protocol for the Field Monitoring Coordinator During Emergency Conditions	Rev.	005
HP/0/B/1009/018	Off-Site Dose Projections	Rev.	023
HP/0/B/1009/020	Estimating Food Chain Doses Under Post- Accident Conditions	Rev.	005
HP/0/B/1009/022	On-Shift Off-Site Dose Projections	Rev.	013
HP/0/B/1009/023	Radiation Protection Emergency Response	Rev.	000
HP/0/B/1009/026	Environmental Monitoring For Emergency Conditions	Rev.	000
RP/0/A/1000/001	Emergency Classification	Rev.	000
RP/0/A/1000/002	Control Room Emergency Coordinator Procedure	Rev.	003
RP/0/B/1000/003 A	ERDS Operation	Rev.	011
RP/0/A/1000/009	Procedure For Site Assembly	Rev.	002
RP/0/A/1000/010	Procedure For Emergency Evacuation/Relocation Of Site Personnel	Rev.	001
RP/0/A/1000/015 A	Offsite Communications From The Control Room	Rev.	001
RP/0/A/1000/015 B	Offsite Communications From The Technical Support Center	Rev.	000
RP/0/B/1000/016	MERT Activation Procedure For Medical, Confined Space, and High Angle Rescue Emergencies	Rev.	018
RP/0/A/1000/017	Spill Response	Rev.	001
RP/0/B/1000/018	Core Damage Assessment	Rev.	005
RP/0/A/1000/019	Technical Support Center Emergency Coordinator Procedure	Rev.	003

## VOLUME C

### TABLE OF CONTENTS

RP/0/B/1000/022	Procedure For Major Site Damage Assessment And Repair	Rev. 014
RP/0/A/1000/024	Protective Action Recommendations	Rev. 001
RP/0/B/1000/027	Re-Entry Recovery Procedure	Rev. 003
RP/0/A/1000/028	Nuclear Communications Emergency Response Plan	Rev. 000
RP/0/B/1000/029	Fire Brigade Response	Rev. 017
RP/0/B/1000/031	Joint Information Center Emergency Response Plan	Rev. 006
RP/0/A/1000/035	Severe Weather Preparations	Rev. 009
RP/0/A/1000/036	Equipment Important to Emergency Response	Rev. 000
SR/0/B/2000/001	Standard Procedure For Corporate Communications Response To The Emergency Operations Facility	Rev. 012
SR/0/B/2000/002	Standard Procedure for EOF Services	Rev. 006
SR/0/A/2000/003	Activation of the Emergency Operations Facility	Rev. 000
SR/0/A/2000/004	Notification to States and Counties from the Emergency Operations Facility for Catawba, McGuire, and Oconee	Rev. 000
Business Management	Business Management Emergency Plan	Rev. 012
SSG Functional Area Directive 102	SSG Emergency Response Plan – ONS Specific	Rev. 008
SCD – 110	Supply Chain Directive 110 – SCO Emergency Response Plan	Rev. 004
Engineering Manual 5.1	Engineering Emergency Response Plan	Rev. 032
Human Resources Procedure	ONS Human Resources Emergency Plan	10/13/2004

## **VOLUME C TABLE OF CONTENTS**

Radiation Protection Section Manual 11.3	Off-Site Dose Assessment And Data Evaluation	Rev. 001
Safety Assurance Directive 6.1	Emergency Response Organization	Rev. 007
Safety Assurance Directive 6.2	Emergency Contingency Plan	Rev. 006
Training Division DTS-007	Oconee Training Division Training Standard	Rev. 018

**Duke Energy  
Oconee Nuclear Station  
Control Room Emergency Coordinator Procedure**

Procedure No.

**RP/0/A/1000/002**

Revision No.

**003**

Electronic Reference No.

**OP009A64**

**PERFORMANCE**

**PDF Format**

Compare with Control Copy every 14 calendar days while work is being performed.

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

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

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

Date(s) Performed

Work Order/Task Number (WO#)

**COMPLETION**

- |                              |                             |  |
|------------------------------|-----------------------------|--|
| <input type="checkbox"/> Yes | <input type="checkbox"/> NA | Checklists and/or blanks initialed, signed, dated, or filled in NA, as appropriate?  |
| <input type="checkbox"/> Yes | <input type="checkbox"/> NA | Required enclosures attached?  |
| <input type="checkbox"/> Yes | <input type="checkbox"/> NA | Charts, graphs, data sheets, etc. attached, dated, identified, and marked?           |
| <input type="checkbox"/> Yes | <input type="checkbox"/> NA | Calibrated Test Equipment, if used, checked out/in and referenced to this procedure? |
| <input type="checkbox"/> Yes | <input type="checkbox"/> NA | Procedure requirements met?  |

Verified By\*

Date

Procedure Completion Approved\*

Date

*\*Printed Name and Signature*

Remarks (attach additional pages, if necessary)

**IMPORTANT: Do NOT mark on barcodes.**

Printed Date: \*03/20/2014\*

Enclosure No.: \*FULL\*



Revision No.: \*003\*



Procedure No.: \*RP/0/A/1000/002\*





## Control Room Emergency Coordinator Procedure

**NOTE:** This procedure is an implementing procedure to the Oconee Nuclear Site Emergency Plan and must be:

1. Reviewed in accordance with 10CFR50.54(q) prior to approval.
2. Forwarded to Emergency Planning within seven (7) working days of approval.

### 1. Symptoms

- \_\_\_\_ 1.1 Events have occurred requiring activation of the Oconee Nuclear Site Emergency Plan.

### 2. Immediate Actions

- \_\_\_\_ 2.1 **IF** No EAL exists,  
**AND** ERO activation is desired,  
**THEN** GO TO Enclosure 4.1 (ERO Pager Activation).

**NOTE:** State and County agencies shall be notified within 15 minutes of E-plan declaration, Classification upgrades, and Protective Action Recommendations.

- \_\_\_\_ 2.2 Declare the appropriate Emergency Classification level.  
Classification \_\_\_\_\_ (UE, Alert, SAE, GE)  
Time Declared: \_\_\_\_\_

- \_\_\_\_ 2.3 **IF** A Security event is in progress,  
**THEN** GO TO Step 2.5.

**NOTE:** Activation of ERO personnel for an unusual event classification is at the discretion of the OSM.

- \_\_\_\_ 2.4 **IF** assistance from ERO personnel is desired/required:  
**THEN** activate ERO pagers from the ERO Pager Activation Panel:
- \_\_\_\_ For an EMERGENCY press "Test" button, wait 10 seconds, then press button 1
  - \_\_\_\_ For a DRILL press "Test" button, wait 10 seconds, then press button 3
  - \_\_\_\_ Make Plant Public Address System announcement to activate TSC and OSC.

\_\_\_\_\_ 2.5 Direct Control Room Offsite Communicator(s) to perform the following:

- Record Name \_\_\_\_\_
- **REFER TO RP/0/A/1000/015A** (Offsite Communications From The Control Room), Immediate Actions steps 2.1 and 2.2 **AND** Enclosure 4.7 (Guidelines for Manually Transmitting a Message) in preparation for notifying offsite agencies.  
{13}

\_\_\_\_\_ 2.6 **IAAT** Changing plant conditions require an emergency classification upgrade,

**THEN** Notify Offsite Communicator to complete in-progress notifications per RP/0/A/1000/15A (Offsite Communications From The Control Room),

**AND** Start a new clean copy of this procedure for the upgraded classification **AND** stop working on this copy, noting the time in your log that each new copy started.

**NOTE:** If more than one EAL of the classification level is met, use the EAL description of most interest to offsite agencies. Use "Remarks" (Line 13 of Notification Form) for additional comments from other EAL descriptions that the offsite agencies may need to know.

Additional message sheets listing other information of interest to offsite agencies (e.g. transporting injured personnel) may be sent, if needed.

\_\_\_\_\_ 2.7 Obtain the applicable Offsite Notification form in the control room and complete as follows:

\_\_\_\_\_ 2.7.1 Ensure EAL # as determined by RP/0/A/1000/001 matches Line 4.

\_\_\_\_\_ 2.7.2 Line 1 - Mark appropriate box "Drill" or "Actual Event"

\_\_\_\_\_ 2.7.3 Line 1 - Enter Message #

\_\_\_\_\_ 2.7.4 Line 2 - Mark Initial

\_\_\_\_\_ 2.7.5 Line 6 - A. Mark "Is Occurring" if any of the following are true:

- RIAs 40, 45, or 46 are increasing or in alarm
- If containment is breached
- Containment pressure > 1 psig

B. Mark "None" if none of the above is applicable.

\_\_\_\_\_ 2.7.6 Line 7 - If Line 6 Box B or C is marked, mark Box D. Otherwise mark Box A.

\_\_\_\_\_ 2.7.7 Line 8 - Mark "Stable" unless an upgrade or additional PARs are anticipated within an hour.

- Refer to Enclosure 4.10 (Event Prognosis Definitions)

\_\_\_\_\_ 2.7.8 Line 10 - Military time and date of declaration (Refer to date/time in Step 2.2)

**NOTE:** 1. The following step is used to help determine if an event includes only one unit or all units. The list may not be all inclusive.

2. The following is provided by the OSM.

\_\_\_\_\_ 2.7.9 Line 11 - Evaluate the following for classification for all units.

- Security event
- Seismic event
- Tornado on site
- Hurricane force winds on site
- SSF event
- Fire affecting shared safety related equipment

Mark or select ALL if event affects the emergency classification on more than one unit.

If event only affects one (1) unit **OR** one (1) unit has a higher emergency class, select or mark the appropriate unit.

\_\_\_\_\_ 2.7.10 Line 12 - Mark unit(s) affected (reference Line 11) AND enter percent power for each unit affected. { 14 }

- If affected unit is shutdown, then enter shutdown time and date.

**NOTE:** Line number 13 should be used to provide information important to offsite agencies. The following are examples of information which should be provided:

- Time that fires are extinguished
- Offsite fire departments have been requested to assist with a fire onsite
- The type of natural event which had affected the site (i.e. tornado, seismic, etc.)
- Notification that a radiologically contaminated patient has been transported offsite
- The dam or dike which has resulted in a Condition Bravo or Alpha, if known
- Status of a security threat against the site if known

\_\_\_\_\_ 2.7.11 Line 13 - If the OSM has no remarks, write "None"

\_\_\_\_\_ 2.7.12 If Condition "A" exists ensure following PARs are included on Line 5.

A. Evacuate: Move residents living downstream of the Keowee Hydro Project dams to higher ground

B. Other: Prohibit traffic flow across bridges identified on your inundation maps until the danger has passed.

\_\_\_\_\_ 2.7.13 Line 17 - OSM signature, CURRENT Time/Date

- NOTE:**
- GETS cards are available in the GETS Binder located in the TSC Supply Cabinet. Their use will enable communications when phone lines are busy or overloaded. See instructions on back of card.
  - For communication failures, see RP/0/A/1000/015A (Offsite Communications From The Control Room), Enclosure 4.9 (Alternate Method and Sequence to Contact Agencies).
  - Satellite Telephones are available in all Control Rooms, the TSC and the OSC. They can be used when other means of communication have failed.

**NOTE:** Only an Initial and a Termination Message are required for Unusual Event classifications. No follow-up notifications (updates) are required unless requested by Offsite Agencies.

\_\_\_\_\_ 2.8 Provide Offsite Communicator with Emergency Notification Form and direct him/her to perform RP/0/A/1000/015A (Offsite Communications From The Control Room). Verify Notifications to State and Counties are completed within 15 minutes.

\_\_\_\_\_ 2.9 Make PA announcement regarding classification (see Enclosure 4.2).

- \_\_\_\_\_ 2.10 **IAAT** The Hydro Group notifies the Control Room that Condition A, Imminent or Actual Dam failure (Keowee or Jocassee) or Condition B at Keowee exists or applies,
- THEN** **REFER TO** Enclosure 4.3 (Condition A/Condition B Response Actions) for additional protective actions.
- AND** **ENSURE** that notification is made to the Georgia Emergency Management Agency 9-404-635-7000 or 7200 and the National Weather Service 9-864-879-1085 or 9-200-268-7785 after the State (SC) and Counties (Oconee and Pickens) are notified.

<b>NOTE:</b> Activation of the ERO is <b><u>NOT</u></b> required for an Unusual Event Classification.
---

- \_\_\_\_\_ 2.11 **IF** This is an Unusual Event,
- AND** The OSM/Emergency Coordinator does **NOT** desire that the EOF and/or TSC be activated,
- THEN** **GO TO** Step 2.14

<b>NOTE:</b> Activate the Alternate TSC and/or OSC in the Oconee Office Building, Rooms 316 and 316A, if a fire in the Turbine Building, flooding conditions, Security events (except those involving intrusion/attempted intrusion), or onsite/offsite hazardous materials spill have occurred or are occurring.	{4}{16}
---	---------

- \_\_\_\_\_ 2.12 Notify Security Shift Supervisor (Ext. 2309 or 3636) that the ERO is being activated and obtain his/her recommendations for conducting a site assembly should it be needed.

<b>NOTE:</b> This step is required in addition to action taken in step 2.4.	{13}
---	------

- \_\_\_\_\_ 2.13 Direct activation of the Emergency Response Organization (ERO) by performing Enclosure 4.1 (ERO Pager Activation). {8}

- \_\_\_\_\_ 2.14 Implement Enclosure 4.5 (OSM Emergency Coordinator Turnover Sheet).

**NOTE:** Enclosure 4.7 (Radiation Monitoring) may be used to help determine if RIA values, Dose Projections, or Field Monitoring surveys require a classification Upgrade and Protective Action Recommendation.

\_\_\_\_\_ 2.15 **IAAT** Abnormal radiation levels or releases are occurring or have occurred,

**THEN** Perform the following:

\_\_\_\_\_ Notify RP to perform Offsite Dose Calculations, determine Protective Action Recommendations, and initiate radiological field monitoring.

\_\_\_\_\_ **REFER TO** Enclosure 4.7 (Radiation Monitoring) to determine if RIA values, Dose Projections, or analysis of Field Monitoring Surveys require a classification Upgrade and Protective Action Recommendation.

\_\_\_\_\_ 2.16 Perform one of the following:

\_\_\_\_\_ 2.16.1 Direct a qualified individual to perform Enclosure 4.4 (Emergency Coordinator Parallel Actions):

- Record Name: \_\_\_\_\_
- Notify individual appointed that a Security event (Does/Does Not) exist and a Site Assembly (Is/Is Not) desired

\_\_\_\_\_ 2.16.2 Perform Enclosure 4.4 (Emergency Coordinator Parallel Actions).

\_\_\_\_\_ 2.17 **IAAT** A Site Assembly needs to be initiated,

**THEN** Initiate Site Assembly per RP/0/A/1000/009 (Procedure for Site Assembly).

### 3. Subsequent Actions

\_\_\_\_\_ 3.1 **IAAT** An Unusual Event classification is being terminated,

**THEN** **REFER TO** Enclosure 4.6 (Emergency Classification Termination Criteria) of this procedure for termination guidance.

\_\_\_\_\_ 3.1.1 Verify that the Offsite Communicator has provided termination message to the off-site agencies.

**NOTE:** The EP Section shall develop a written report, for signature by the Site Vice President, to the State Emergency Management Agency, Oconee County EPD, and Pickens County EPD within 24 working hours of the event termination.

\_\_\_\_\_ 3.1.2 Notify Emergency Planning Section (Emergency Planning Duty person after hours) of the following:

- The Unusual Event has been terminated
- Conduct a critique following termination of an actual Unusual Event

**NOTE:** After normal working hours, Emergency Response Personnel will **NOT** report to the TSC or OSC until after a Security threat has been neutralized. Emergency Response personnel will report to the Oconee JIC (Old Clemson EOF) during Security events.

If the ERO was activated and a Security event involving an intrusion/attempted intrusion **DOES NOT** exist, then provide turnover to the Technical Support Center.

If the ERO was activated after normal working hours **AND** a Security Event involving an intrusion/attempted intrusion **DOES** exist, then provide Notification turnover information to the EOF Director. After the EOF is activated, the EOF will assume responsibility for classifications, notifications, and protective action recommendations. The OSM will remain the Emergency Coordinator for all other activities until the TSC is activated.

\_\_\_\_\_ 3.2 **IAAT** The TSC or EOF is ready to accept turnover,

**THEN** Perform one of the following as required:

\_\_\_\_\_ 3.2.1 **IF** The TSC is ready to accept Emergency Coordinator responsibilities,

**THEN** Perform turnover using Enclosure 4.5 (OSM Emergency Coordinator Turnover Sheet).

Time TSC Activated: \_\_\_\_\_

- A. Turn over all emergency response procedures in use to the TSC.
- B. Direct all available Auxiliary Operators (AOs) to report to the OSC to support damage repair efforts.

**NOTE:** The EOF Director will notify the Control Room Emergency Coordinator when the EOF is operational and ready to initiate turnover.

\_\_\_\_\_ 3.2.2     **IF**     The EOF is ready to initiate turnover information,

**THEN**   Verify notification turnover information from the EOF Director:

\_\_\_\_\_ A.   Fax Enclosure 4.5 (OSM Emergency Coordinator Turnover Sheet).

\_\_\_\_\_ B.   Obtain current copy of Emergency Notification Form and plant status.

\_\_\_\_\_ C.   Verify the information being provided by the EOF Director from  
Enclosure 4.5 and the current Emergency Notification Form.

\_\_\_\_\_ D.   When Control Room Emergency Coordinator verification of Notification  
turnover information from EOF Director is complete and the EOF is  
activated, turnover Notification responsibility to the EOF and log:

                 Time EOF Activated: \_\_\_\_\_

\_\_\_\_\_ E.   Direct NRC Communicator to notify the NRC Operations Center that the  
EOF is activated.

#### **4. Enclosures**

4.1     ERO Pager Activation

4.2     Plant Public Address Announcements

4.3     Condition A/ Condition B Response Actions

4.4     Emergency Coordinator Parallel Actions

4.5     OSM Emergency Coordinator Turnover Sheet

4.6     Emergency Classification Termination Criteria

4.7     Radiation Monitoring

4.8     Summary of IAAT Steps

4.9     ERO Pager Activation By Security

4.10    Event Prognosis Definitions

4.11    References



**Enclosure 4.1**  
**ERO Pager Activation**

RP/0/A/1000/002  
Page 1 of 3

**1. Activate ERO Pagers as follows:**

**NOTE:** Pressing more than one Panel Button may be required. Read all Steps to ensure the appropriate Activation Panel buttons are pressed.

\_\_\_\_\_ 1.1 Press ERO Pager Activation Panel "Test" Button (Green) and wait 10 seconds. {6}

**NOTE:**

- For Security events **DO NOT** press Buttons 1, 2, 3 **OR** 4 along with either Button 6 **OR** 10.
- For flooding/dam failures/earthquake conditions it is assumed that bridges may be impassable to reach emergency facilities so either Button 2 **OR** 4 should be used for those events.
- Activating Button 6 **OR** 10 recalls the ERO to the Clemson assembly area.
- For a station blackout press Button 5 to activate alternate TSC/OSC. (to reduce number of people in Control Rooms for heat reduction) {15}

\_\_\_\_\_ 1.2 **IF** ERO activation for an Emergency (ONS Emergency) is required,

**THEN** Press ERO Pager Activation Panel Button 1.

\_\_\_\_\_ 1.3 **IF** ERO activation is for an Emergency affecting bridges (ONS Emergency Bridges) is required,

**THEN** Press ERO Pager Activation Panel Button 2.

\_\_\_\_\_ 1.4 **IF** ERO activation for a Drill (ONS Drill) is required,

**THEN** Press ERO Pager Activation Panel Button 3.

\_\_\_\_\_ 1.5 **IF** ERO activation for a Drill affecting bridges (ONS Drill Bridges) is required,

**THEN** Press ERO Pager Activation Panel Button 4.

**WARNING:** Activating the Alternate TSC and OSC during Security events involving an intrusion/ attempted intrusion into the site is **NOT** recommended. {4}

\_\_\_\_\_ 1.6 **IF** Alternate TSC/OSC will be used,

**THEN** Press ERO Pager Activation Panel Button 5.

**Enclosure 4.1**  
**ERO Pager Activation**

RP/0/A/1000/002  
Page 2 of 3

- \_\_\_\_\_ 1.7    **IF**            ERO activation for an Emergency **AND**  
                                 A Security Event is in progress,  
  
                         **THEN**    Press ERO Pager Activation Panel Button **6**.
- \_\_\_\_\_ 1.8    **IF**            ERO activation for a Drill **AND** a Security Event is in progress,  
  
                         **THEN**    Press ERO Pager Activation Panel Button **10**.
- \_\_\_\_\_ 1.9    Wait one minute and repeat Steps 1.1 - 1.8.
- \_\_\_\_\_ 1.10   Monitor ERO pager and verify that message has been provided to the ERO.
- \_\_\_\_\_ 1.11   **IF**            Message is **NOT** displayed on ERO Pager,  
  
                         **THEN**    Notify Security to activate ERO Pagers. **REFER TO** Enclosure 4.9 (ERO  
                                 Pager Activation By Security).

**NOTE:**

- **DO NOT** perform Step 1.12 until Security has determined that it is safe to recall ERO personnel to the site.
- Security may be in the process or have already performed this process per SP/C/1629-O.

- \_\_\_\_\_ 1.12   **IF**            ERO activation is after normal working hours  
  
                         **THEN**    Mark the following condition that exists as determined in Steps 1.2 through 1.8:
- |       |  |                   |
|-------|--|-------------------|
| _____ | ONS Emergency  | <b>Message 2</b>  |
| _____ | ONS Emergency - Bridges                                  | <b>Message 20</b> |
| _____ | ONS Emergency - Security Event                           | <b>Message 21</b> |
| _____ | ONS Emergency - Bridges <b><u>AND</u></b> Security Event | <b>Message 22</b> |
| _____ | ONS Drill  | <b>Message 1</b>  |
| _____ | ONS Drill - Bridges                                      | <b>Message 10</b> |
| _____ | ONS Drill - Security Event                               | <b>Message 11</b> |
| _____ | ONS Drill - Bridges <b><u>AND</u></b> Security Event     | <b>Message 12</b> |

**Enclosure 4.1**  
**ERO Pager Activation**

RP/0/A/1000/002  
Page 3 of 3

**AND**

\_\_\_\_\_ **THEN**    Notify Security at extension 3636 (dial 2309 if no response is received) and request the Security Officer to pull a copy of Security Procedure SP/C/1629-O (Security Support of Site Emergency Response) and request them to activate the Nuclear Callout System, Enclosure 4.5, using event description and message number determined above.

## Plant Public Address Announcements

## 1. Select from the following and announce over the Plant Public Address System:

       Drill Message:

Attention all site personnel. This is \_\_\_\_\_(name). I am the Emergency Coordinator.

This is a drill. This is a drill.

- As of \_\_\_\_\_ (time declared), a(n) \_\_\_\_\_ (emergency classification) has been declared for Unit(s) \_\_\_\_\_ (affected unit(s)).
- Plant condition for Unit(s) \_\_\_\_\_ (affected unit(s)) is \_\_\_\_\_ (stable, degrading, improving, what has happened, etc.).
- **IF** A release has occurred or is suspected **AND/OR** a site assembly has been activated

**THEN** Announce the following:

No eating or drinking until the area is cleared by RP.

       Emergency Message:

Attention all site personnel. This is \_\_\_\_\_(name). I am the Emergency Coordinator.

This is an emergency message.

- As of \_\_\_\_\_ (time declared), a(n) \_\_\_\_\_ (emergency classification) has been declared for Unit(s) \_\_\_\_\_ (affected unit(s)).
- Plant condition for Unit(s) \_\_\_\_\_ (affected unit(s)) is \_\_\_\_\_ (stable, degrading, improving, what has happened, etc.).
- **IF** A release has occurred or is suspected **AND/OR** a site assembly has been activated

**THEN** Announce the following:

No eating or drinking until the area is cleared by RP.

## 1. Condition A Response - Immediate Actions

**NOTE:** The Hydro Group will notify the Control Room/OSM when Condition A/B conditions apply.

Condition A - Failure is Imminent or Has Occurred - A failure at the dam has occurred or is about to occur and minutes or days may be allowed to respond dependent upon the proximity to the dam. (Keowee or Jocassee)

Condition B - Potentially Hazardous Situation is Developing - A situation where failure may develop, but preplanning actions taken during certain events (major floods, earthquakes) may prevent or mitigate failure. (Keowee)

\_\_\_\_\_ 1.1 **IF** Condition A, Imminent or Actual Dam Failure (Keowee or Jocassee) exists.

**THEN** Perform the following actions:

\_\_\_\_\_ 1.1.1 Provide the following **protective action recommendations** to Oconee County and Pickens County for imminent/actual dam failure.

**NOTE:** State and County Agencies shall be notified within 15 minutes of Protective Action Recommendations.

\_\_\_\_\_ A. Provide the following recommendation for Emergency Notification Form Section 5 (B) **Evacuate:** Move residents living downstream of the Keowee Hydro Project dams to higher ground.

\_\_\_\_\_ B. Provide the following recommendation for Emergency Notification Form Section 5 (E) **Other:** Prohibit traffic flow across bridges identified on your inundation maps until the danger has passed.

\_\_\_\_\_ 1.2 **IF** Condition A, Imminent or Actual Dam Failure (Keowee or Jocassee) exist,

**THEN** Notify the Georgia Emergency Management agency 9-404-635-7000 or 7200 and National Weather Service 9-864-879-1085 or 9-800-268-7785 after the State and Counties are notified.

## 2. Condition A Response - Subsequent Actions

\_\_\_\_\_ 2.1 Notify Hydro Central and provide information related to the event.

\_\_\_\_\_ 2.1.1 **REFER TO** Section 6 of the Emergency Telephone Directory, Keowee Hydro Project Dam/Dike Notification. {2}

**Condition A/ Condition B Response Actions** Page 2 of 3

\_\_\_\_\_ 2.2 Relocate Keowee personnel to the Operational Support Center (OSC) if events occur where their safety could be affected.

\_\_\_\_\_ 2.2.1 **IF** Keowee personnel are relocated to the OSC,

**THEN** Notify Hydro Central at 9-704-382-6836 or 6838 or 6839.

\_\_\_\_\_ A. **REFER TO** Section 6 of the Emergency Telephone Directory,  
Keowee Hydro Project Dam/Dike Notification. {2}

**NOTE:** A loss of offsite communications capabilities (Selective Signaling and the Wide Area Network - WAN) could occur within 1.5 hours after Keowee Hydro Dam failure. Rerouting of the Fiber Optic Network through Bad Creek should be started **as soon as possible**.

\_\_\_\_\_ 2.3 Notify Telecommunications Group in Charlotte to begin rerouting the Oconee Fiber Optic Network.

\_\_\_\_\_ 2.3.1 **REFER TO** Selective Signaling Section of the Emergency Telephone Directory (page 8).

\_\_\_\_\_ 2.4 Request Security to alert personnel at the Security Track/Firing Range and Building 8055 (Warehouse #5) to relocate to work areas inside the plant.

**NOTE:**

- Plant access road to the Oconee Complex could be impassable within **1.5 hours** if the Keowee Hydro Dam fails. A loss of the Little River Dam (Newry Dam) or Dikes A-D will take longer to affect this road.
- PA Announcements can be made by the Control Room using the Office Page Override feature or Security.

\_\_\_\_\_ 2.5 Make a PA Announcement to relocate personnel at the following locations to the World Of Energy/Operations Training Center.

\_\_\_\_\_ Oconee Complex

\_\_\_\_\_ Oconee Garage

\_\_\_\_\_ Oconee Maintenance Training Facility

\_\_\_\_\_ 2.6 Dispatch operators to the SSF and establish communications.

**Condition A/ Condition B Response Actions**

- \_\_\_\_\_ 2.7 Initiate the following actions for a Condition A for Keowee OR Jocassee:
- \_\_\_\_\_ 2.7.1 Direct SPOC to initiate relocation of Appendix R equipment and Hale Fire Pump to the ISFSI or Elevated Water Storage Tank areas.
- \_\_\_\_\_ 2.7.2 Notify Security Supervision to be prepared to relocate Security Officers due to flooding within the protected area and to waive security requirements as needed to support relocation of Appendix R equipment and Hale Fire Pump.
- \_\_\_\_\_ 2.7.3 Recall off shift Operations personnel to assist with shutdown of operating units.
- \_\_\_\_\_ 2.8 **GO TO** Enclosure 4.4 (Emergency Coordinator Parallel Actions) Step 1.11.

**3. Condition B Response - Immediate Actions**

- \_\_\_\_\_ 3.1 **IF** Condition B at Keowee exists,
- THEN** Notify Hydro Central 9-704-382-6836 and the Georgia Emergency Management Agency 9-404-635-7000 or 7200 and National Weather Service 9-864-879-1085 or 9-800-268-7785 after the State and Counties are notified.

<b>NOTE:</b> Activation of the ERO is to allow adequate time for the TSC to assess the need to relocate B.5.b equipment in the event of an anticipated upgrade to a Condition A.
--

- \_\_\_\_\_ 3.2 Activate the ERO.
- \_\_\_\_\_ 3.3 **GO TO** Enclosure 4.4 (Emergency Coordinator Parallel Actions) Step 1.11.

**1. Emergency Coordinator Parallel Actions**

- \_\_\_\_\_ 1.1    **IAAT**    Changing plant conditions require an emergency classification upgrade,  
  
              **THEN**    Re-start with a clean copy of this enclosure and stop the current copy of the enclosure.

**NOTE:**    An open line to the NRC may be required.

Notifications to the NRC are required within one (1) hour of declaration of the emergency classification level.

- \_\_\_\_\_ 1.2    Direct an SRO to make notifications to the NRC.  
  
              CR NRC Communicator (SRO) Name \_\_\_\_\_
- \_\_\_\_\_ 1.3    Direct the CR NRC Communicator to complete the OMP 1-14 NRC Event Notification Worksheet and Plant Status Sheet (located on OPS Web page under "Forms and Reports").

**NOTE:**    The NRC Communicator is responsible for activating ERDS.

Activating ERDS is **NOT** required for an Unusual Event classification.

- \_\_\_\_\_ 1.4    Direct the CR NRC Communicator to start the Emergency Response Data System (ERDS) for unit(s) involved, within one (1) hour of an emergency classification of Alert or higher. **REFER TO** RP/0/B/1000/003A (ERDS Operation).

**NOTE:**    Notifications per NSD 202 for 10CFR50.72 require **ALL** reportable items that are met or exceeded to be reported in addition to the NRC Event Notification Worksheet and Plant Status Sheet required within 1 hour of the event declaration.

- \_\_\_\_\_ 1.5    **IAAT**    Plant conditions require NRC notification under 10CFR50.72,  
  
              **THEN**    Direct the CR NRC Communicator to provide this notification using the guidance in OMP 1-14 (Notifications).
- \_\_\_\_\_ 1.6    **IF**        The Emergency Response Organization is **NOT** needed to assist with the Unusual Event emergency activities,  
  
              **AND**        Personnel accountability is **NOT** desired,  
  
              **THEN**    **GO TO** Step 1.8.



_____ 1.7	<b><u>IAAT</u></b>	The OSM directs that a Site Assembly be initiated,
	<b><u>THEN</u></b>	Initiate Site Assembly per RP/0/A/1000/009 (Procedure For Site Assembly).
_____ 1.8	<b><u>IAAT</u></b>	Any Area Radiation Monitor is increasing or is in ALARM,
	<b><u>OR</u></b>	Steam Line Break has occurred,
	<b><u>THEN</u></b>	Contact shift RP to dispatch onsite monitoring teams.
_____ 1.9	<b><u>IF</u></b>	This is a General Emergency,
	<b><u>THEN</u></b>	Initiate evacuation of all non-essential personnel from the site <u>after</u> personnel accountability has been reached. <b>REFER TO</b> RP/0/B/1000/010 (Procedure for Emergency Evacuation/Relocation of Site Personnel).
_____ 1.10	<b><u>IAAT</u></b>	If notified by the Hydro Group that Condition A Imminent or Actual Dam Failure (Keowee or Jocassee),
	<b><u>OR</u></b>	Condition B (Keowee) exists,
	<b><u>THEN</u></b>	<b>REFER TO</b> Enclosure 4.3 (Condition A/Condition B Response Actions) for additional PAR and/or response actions.
_____ 1.11	<b><u>IAAT</u></b>	Major damage has occurred or is occurring,
	<b><u>THEN</u></b>	Initiate RP/0/B/1000/022 (Procedure for Major Site Damage Assessment and Repair) and/or RP/0/B/1000/029 (Fire Brigade Response - OSC).
_____ 1.12	<b><u>IAAT</u></b>	A Security Event is in progress,
	<b><u>THEN</u></b>	Verify that the 15 minute notification for the Security event has been made to the NRC.
_____ 1.13	<b><u>IAAT</u></b>	A hazardous substance has been released,
	<b><u>THEN</u></b>	Initiate RP/0/A/1000/017 (Spill Response).

{ 12 }

**Enclosure 4.4**  
**Emergency Coordinator Parallel Actions**

RP/0/A/1000/002  
Page 3 of 4

**NOTE:** Priority should be placed on providing treatment for the most life-threatening event (i.e., medical versus radiation exposure - OSC procedure RP/0/B/1000/011 (Planned Emergency Exposure). The Emergency Coordinator may authorize (either verbal or signature) exposures greater than 25 rem TEDE (Total Effective Dose Equivalent) for life saving missions.

\_\_\_\_\_ 1.14 **IAAT** A medical response is required,

**THEN** Initiate RP/0/B/1000/016 (MERT Activation Procedure For Medical, Confined Space and High Angle Rescue Emergencies).

\_\_\_\_\_ 1.14.1 Document verbal approval of Planned Emergency Exposures required for life saving missions in the Control Room Emergency Coordinator Log.

**CAUTION:** Use of the Outside Air Booster Fans during a Security Event may introduce incapacitating agents in the Control Room.

**NOTE:** The Outside Air Booster Fans (Control Room Ventilation System - CRVS) are used to provide positive pressure in the Control Room to prevent smoke, toxic gases, or radioactivity from entering the area as required by NUREG 0737.

Chlorine Monitor Alarm will either stop the Air Booster Fans or will not allow them to start.

Items to consider for operation of the Outside Air Booster Fans: Security events, Smoke or toxic gases may enter the Control Room, RIA-39 in ALARM, Dose levels in CR/TSC/OSC

\_\_\_\_\_ 1.15 Evaluate operation of the Outside Air Booster Fans.

**NOTE:** 10CFR50.54(x) allows for reasonable actions that depart from a License Condition or Technical Specification to be performed 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.

10CFR50.54 (y) requires approval of any 10CFR50.54(x) actions by an SRO at minimum. (Anyone more senior than the SRO may approve.)

Implementation of Oconee Severe Accident Guidelines (OSAG) requires the use of 10CFR50.54 (x) and (y) provisions.

\_\_\_\_\_ 1.16 **IAAT** Plant conditions require a decision to implement 10CFR50.54(x),

**THEN** Perform the following Steps:

\_\_\_\_\_ 1.16.1 Document decision and actions taken in the affected unit's log.

\_\_\_\_\_ 1.16.2 Document decision and actions taken in the Emergency Coordinator Log.

**NOTE:** NRC must be notified of any 10CFR50.54(x) decisions and actions within one (1) hour.

\_\_\_\_\_ 1.16.3 Direct the CR NRC Communicator to report decision and actions taken to the NRC.

\_\_\_\_\_ 1.17 Ensure Site Assembly has been considered, is in progress, or complete. Refer to RP/0/A/1000/009 (Procedure for Site Assembly).

**Enclosure 4.5**

RP/0/A/1000/002

Page 1 of 1

**OSM Emergency Coordinator Turnover Sheet**

Unit 1			Unit 2			Unit 3		
Rx Power	RCS Pressure	RCS Temp.	Rx Power	RCS Pressure	RCS Temp.	Rx Power	RCS Pressure	RCS Temp.
Auxiliary Power From		ES Channels Actuated	Auxiliary Power From		ES Channels Actuated	Auxiliary Power From		ES Channels Actuated
Jobs In Progress:			Jobs In Progress:			Jobs In Progress:		
Major Equipment Out of Service:			Major Equipment Out of Service:			Major Equipment Out of Service:		
ERDS Activated? Yes/No CR Booster Fans On? Yes/No			ERDS Activated? Yes/No			ERDS Activated? Yes/No CR Booster Fans On? Yes/No		

Abnormal/Emergency Procedures Currently In Progress			
Emergency Response Procedures in Progress	Yes	No	List Any EOP/APs In Progress
RP/0/A/1000/002 (Control Room Emergency Coordinator)	✓		
RP/0/B/1000/016 (MERT Activation for Medical, Confined Space and High Angle Rescue Emergency)			
RP/0/A/1000/017 (Spill Response)			
RP/0/B/1000/022 (Major Site Damage Assessment and Repair)			
RP/0/B/1000/029 (Fire Brigade Response - OSC)			
RP/0/A/1000/009 (Site Assembly)			
RP/0/B/1000/010 (Emergency Evacuation/Relocation of Site Personnel)			
Emergency Dose Limits for AP/EOP actions in effect?			

**IF** Condition A, Dam Failure, has been declared for Keowee Hydro Project,

**THEN** Provide the following information to the TSC Emergency Coordinator:

- Status of Offsite Agency Notifications \_\_\_\_\_
- Recommendations made to offsite agencies \_\_\_\_\_
- Status of relocation of site personnel \_\_\_\_\_

Status for answering 4911 emergency phone call: Remains in Control Room \_\_\_\_\_ Responsibility of Ops in OSC \_\_\_\_\_

Status of Site Assembly (Needed only if after hours, holidays, or weekends) \_\_\_\_\_

Time Next message is due to Offsite Agencies \_\_\_\_\_ (**Attach all completed Emergency Notification Forms**)

Emergency Coordinator/TSC \_\_\_\_\_ OSM \_\_\_\_\_ Time of Turnover \_\_\_\_\_

**Enclosure 4.6**  
**Emergency Classification Termination**  
**Criteria**

RP/0/A/1000/002

Page 1 of 1

**IF**        The following guidelines **applicable to the present emergency condition** have been met or addressed,

**THEN**     An emergency condition may be considered resolved when:

- \_\_\_\_\_ 1. Existing conditions no longer meet the existing emergency classification criteria and it appears unlikely that conditions will deteriorate further.
- \_\_\_\_\_ 2. Radiation levels in affected in-plant areas are stable or decreasing to below acceptable levels.
- \_\_\_\_\_ 3. Releases of radioactive material to the environment greater than Technical Specifications are under control or have ceased.
- \_\_\_\_\_ 4. The potential for an uncontrolled release of radioactive material is at an acceptably low level.
- \_\_\_\_\_ 5. Containment pressure is within Technical Specification 3.6 requirements.
- \_\_\_\_\_ 6. Long-term core cooling is available.
- \_\_\_\_\_ 7. The shutdown margin for the core has been verified.
- \_\_\_\_\_ 8. A fire, flood, earthquake, or similar emergency condition is controlled or has ceased.
- \_\_\_\_\_ 9. Offsite power is available per Technical Specification requirements.
- \_\_\_\_\_ 10. All emergency action level notifications have been completed.
- \_\_\_\_\_ 11. Hydro Central has been notified of termination of Condition B for Keowee Hydro Project. {2}
  - ◆     **REFER TO** Section 6 of the Emergency Telephone Directory (Keowee Hydro Project Dam/Dike Notification).
- \_\_\_\_\_ 12. The Regulatory Compliance Section has evaluated plant status with respect to Technical Specifications and recommends Emergency classification termination.
- \_\_\_\_\_ 13. Emergency terminated. Request the Control Room Offsite Communicator to complete an Emergency Notification Form for a Termination Message using guidance in RP/0/A/1000/015A (Offsite Communications From The Control Room) and provide information to offsite agencies.
  - ◆     **GO TO** Step 3.1.

\_\_\_\_\_  
Date/Time    Initial

**Enclosure 4.7**  
**Radiation Monitoring**

RP/0/A/1000/002  
Page 1 of 1

**NOTE:** Refer to the appropriate enclosures in RP/0/A/1000/001 (Emergency Classification) to determine the Emergency Classification.

Indication	Value	Reference Enclosure
RIA-3	Valid High Alarm	4.3
RIA-6	Valid High Alarm	4.3
RIA-7	$\geq 150$ mRad/Hr	4.3
RIA-8	$\geq 4200$ mRad/Hr	4.3
RIA-10	$\geq 830$ mRad/Hr	4.3
RIA-11	$\geq 210$ mRad/Hr	4.3
RIA-12	$\geq 800$ mRad/Hr	4.3
RIA-13	$\geq 650$ mRad/Hr	4.3
RIA-15	$\geq 5000$ mRad/Hr	4.3
RIA-16	is or has been in High <u>or</u> Alert alarm ( $>2.5$ mR/Hr)	N/A
RIA-17	is or has been in High <u>or</u> Alert alarm ( $>2.5$ mR/Hr)	N/A
RIA-33	$\geq 4.06E06$ cpm for $> 60$ minutes <u>or</u> in High Alarm	4.3
RIA-41	Valid High Alarm	4.3
RIA-45	$\geq 1.33E06$ cpm for $> 60$ minutes	4.3
RIA-46	$\geq 2.09E04$ cpm or $\geq 2.09E05$ or $\geq 2.09E06$ for $> 15$ minutes	4.3
RIA-49	Valid High Alarm	4.3
1,3RIA-57	$\geq 1.0$ R/Hr	4.1
2RIA-57	$\geq 1.6$ R/Hr	4.1
1,2,3RIA-58	$\geq 1.0$ R/Hr	4.1
RIA-57/58	$\geq$ RP/0/A/1000/001 Encl. 4.8 values	4.3
Projected Dose Calculations	$> 100$ mrem TEDE or $> 500$ mrem CDE Adult Thyroid at Site Boundary	4.3, 4.7
Analyzed Field Monitoring Surveys	$\geq 500$ mrem CDE Adult Thyroid on one hour of inhalation	4.3
Field Monitoring Indications	$\geq 100$ mRad/Hr at Site Boundary expected to continue for $> one$ hour	4.3
Control Room, CAS, or Radwaste CR Radiation Levels	Valid Reading $\geq 15$ mRad/Hr	4.3
Damaged Spent Fuel Storage Cask at ISFSI	1 R/Hr reading at 1 foot	4.3
Portable Monitor on Main or Spent Fuel Bridge	Unplanned Valid Reading Increase or High Alarm	4.3
Liquid Release	$> SLC 16.11.1$ values	4.3
Gaseous Release	$> SLC 16.11.2$ values	4.3

**Enclosure 4.8**  
**Summary of IAAT Steps**

RP/0/A/1000/002  
Page 1 of 1

**IF AT ANY TIME:**

**Immediate Actions**

- (2.6) changing plant conditions require an emergency classification upgrade...
- (2.10) The Hydro Group notified the Control Room that Condition A, Imminent or Actual Dam Failure (Keowee or Jocassee) or Condition B at Keowee exists...
- (2.15) abnormal radiation levels or releases are occurring or have occurred...
- (2.17) site assembly needs to be initiated...

**Subsequent Actions**

- (3.1) an Unusual Event classification is being terminated...
- (3.2) the TSC or EOF is ready to accept turnover...

**Enclosure 4.4, Emergency Coordinator Parallel Actions**

- (1.1) changing plant conditions require an emergency classification upgrade...
- (1.5) plant conditions require NRC notification under 10CFR50.72...
- (1.7) the OSM directs that a Site Assembly be initiated...
- (1.8) any Area Radiation Monitor is increasing or in ALARM, **OR** a Steam Line Break has occurred,
- (1.10) if notified by the Hydro Group that Condition A, Imminent or Actual Dam Failure (Keowee or Jocassee) **OR** Condition B (Keowee) exists...
- (1.11) major damage has occurred **OR** is occurring...
- (1.12) a Security Event is in progress...
- (1.13) a hazardous substance has been released...
- (1.14) a medical response is required...
- (1.17) plant conditions require a decision to implement 10CFR50.54(x)...

**Enclosure 4.9**  
**ERO Pager Activation By Security**

RP/0/A/1000/002  
Page 1 of 2

**1. Symptoms**

- \_\_\_\_\_ 1.1     Activation of the ERO Pagers using the ERO Pager Activation Panel in the TSC was unsuccessful.

**2. Immediate Actions**

- \_\_\_\_\_ 2.1     Activate the Emergency Response Organization (Technical Support Center, Operational Support Center, and Emergency Operations Facility) by completing the following actions:

- \_\_\_\_\_ 2.1.1     REFER TO Enclosure 4.1 (ERO Pager Activation) and select the appropriate Button(s) to be activated by Security.

_____	ONS Emergency	<b>Button 1</b>
_____	ONS Emergency Bridges	<b>Button 2</b>
_____	ONS Drill	<b>Button 3</b>
_____	ONS Drill Bridges	<b>Button 4</b>
_____	Alternate TSC/OSC	<b>Button 5</b>
_____	Emergency <b><u>AND</u></b> a Security Event In Progress	<b>Button 6</b>
_____	Drill <b><u>AND</u></b> a Security Event In Progress	<b>Button 10</b>



**ERO Pager Activation By Security**

\_\_\_\_\_ 2.1.2     **Notify Security.**

- \_\_\_\_\_ A.   **Dial 3636 (Dial 2309 if no response is received).**

**Security Officer Name \_\_\_\_\_**

- \_\_\_\_\_ B.   **Identify yourself and provide call back number.**

- \_\_\_\_\_ C.   **Read the following information to the Security Officer:**

                    "The Emergency Response Organization is being activated for an emergency related to Unit # \_\_\_\_\_. The Control Room has been unsuccessful in activating the ERO Pagers. Security is being requested to activate the pagers from the Security Switchboard or SAS."

- \_\_\_\_\_ D.   **Request the Security Officer to pull a copy of Security Procedure SP/C/1629-O (Security Support of Site Emergency Response) and go to Enclosure 4, Step 1 and place a check beside the Button numbers as you provide them.**

- \_\_\_\_\_ E.   **Provide Button numbers that you identified in Step 2.1.1.**

- \_\_\_\_\_ F.   **Request the Security Officer to activate ERO Pagers using the Button(s) numbers just provided.**

- \_\_\_\_\_ G.   **Record time requested.**

**Time request made: \_\_\_\_\_**

**Enclosure 4.10**  
**Event Prognosis Definitions**

RP/0/A/1000/002  
Page 1 of 1

The following definitions apply when determining Event Prognosis for completing line #8 on the Emergency Notification Form.

**Degrading:** Plant conditions involve at least one of the following:

- Plant parameters (ex. temperature, pressure, level, voltage, frequency) are trending unfavorably away from expected or desired values AND plant conditions could result in a higher classification or Protective Action Recommendation (PAR) before the next follow-up notification.
- Site conditions (ex. wind, ice/snow, ground tremors, hazardous/toxic/radioactive material leak, fire, Security event) impacting plant operations or personnel safety are worsening AND plant conditions could result in a higher classification or Protective Action Recommendation (PAR) before the next follow-up notification

**Improving:** Plant conditions involve at least one of the following:

- Plant parameters (ex. temperature, pressure, level, voltage, frequency) are trending favorably toward expected or desired values AND plant conditions could result in a lower classification or emergency termination before the next follow-up notification.
- Site conditions (ex. wind, ice/snow, ground tremors hazardous/toxic/radioactive material leak, fire, Security event) have become less of a threat to plant operations or personnel safety AND plant conditions could result in a lower classification or emergency termination before the next follow-up notification.

**Stable:** Plant conditions are neither degrading nor improving.

{10}

1. PIP O-01-01395
2. PIP O-01-03460
3. PIP O-01-03696
4. PIP O-02-01452
5. PIP O-02-03705
6. PIP O-04-06494
7. PIP O-04-04755
8. PIP O-04-07469
9. PIP O-05-01642
10. PIP O-05-03349
11. PIP O-05-02980
12. PIP O-05-04697
13. PIP O-07-06549
14. PIP O-08-01712
15. PIP O-13-01001
16. PIP O-12-03091

# Duke Energy PROCEDURE PROCESS RECORD

(1) ID No. RP/0/A/1000/002Revision No. 003**PREPARATION**(2) Station OCONEE NUCLEAR STATION(3) Procedure Title Control Room Emergency Coordinator Procedure(4) Prepared By\* John Kaminski (Signature) [Signature] Date 03/19/2014

(5) Requires NSD 228 Applicability Determination?

☒ Yes (New procedure or revision with major changes) - Attach NSD 228 documentation.☐ No (Revision with minor changes)(6) Reviewed By\* Donna A. Cens [Signature] (QR)(KI) Date 3/25/14Cross-Disciplinary Review By\* \_\_\_\_\_ (QR)(KI) NA NA Date 3/25/14Reactivity Mgmt Review By\* \_\_\_\_\_ (QR) NA NA Date 3/25/14Mgmt Involvement Review By\* \_\_\_\_\_ (Ops. Supt.) NA NA Date 3/25/14

(7) Additional Reviews

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

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

(8) Approved By\* PATRICK M. STURGE [Signature] Date 3/27/14**PERFORMANCE** (Compare with control copy every 14 calendar days while work is being performed.)

(9) Compared with Control Copy\* \_\_\_\_\_ Date \_\_\_\_\_

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

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

(10) Date(s) Performed \_\_\_\_\_

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

**COMPLETION**

(11) Procedure Completion Verification:

☐ Unit 0 ☐ Unit 1 ☐ Unit 2 ☐ Unit 3 Procedure performed on what unit?☐ Yes ☐ NA Check lists and/or blanks initialed, signed, dated, or filled in NA, as appropriate?☐ Yes ☐ NA Required enclosures attached?☐ Yes ☐ NA Charts, graphs, data sheets, etc. attached, dated, identified, and marked?☐ Yes ☐ NA Calibrated Test Equipment, if used, checked out/in and referenced to this procedure?☐ Yes ☐ NA Procedure requirements met?

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

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

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

Procedure Title: \_\_\_\_Control Room Emergency Coordinator Procedure

**SUMMARY OF CHANGES: (DESCRIPTION AND REASON)**

**General Changes**

Revised Enclosure 4.4 step 1.11 from IAAT Large scale fire or flood damage ...to IAAT Major damage...  
- to be consistent with title and intent of implementing procedure.

**PCR Numbers Incorporated**

ONS- 2014-001273

RP/0/A/1000/002, Control Room Emergency Coordinator Procedure, Rev 003 Comparison Matrix				
Change #	Document Number / Section	Current Wording	Proposed Wording	Reason for Change
1	Encl 4.4 step 1.11	IAAT Large scale fire or flooding damage has ...	IAAT Major damage has ...	Ensure alignment with title and intent of implementing procedure being implemented.
2	Encl 4.8 step 1.11	IAAT Large scale fire or flooding damage has ...	IAAT Major damage has ...	Ensure consistency of summarized IAAT steps.

Duke Energy  
**PROCEDURE CHANGE PROCESS RECORD**

(1) ID No. RP/0/A/1000/002

Revision No.003 Change No.  
Permanent/Restricted to  
\_\_\_\_\_

(2) Station: OCONEE NUCLEAR STATION

(3) Procedure Title: Control Room Emergency Coordinator Procedure

(4) Section(s) of Procedure Affected: Enclosure 4.4, Enclosure 4.8

(5) Requires NSD 228 Applicability Determination?

☐ Yes (Procedure change with major changes) - Attach NSD 228 documentation.

☒ No (Procedure change with minor changes)

(6) Description of Change: *(Attach additional pages, if necessary.)*  
See attached comparison chart for complete list of changes

(7) Reason for Change:  
Ensure alignment of title and intent of implementing procedure

(8) Prepared By\* John Kaminski (Signature) [Signature] Date 03/19/2014

(9) Reviewed By\* Donald A. Gault (QR)(KI) [Signature] Date 3/25/14

Cross-Disciplinary Review By\* \_\_\_\_\_ (QR)(KI) NA me Date 3/25/14

Reactivity Mgmt. Review By\* \_\_\_\_\_ (QR) NA me Date 3/25/14

Mgmt. Involvement Review By\* \_\_\_\_\_ (Ops. Supt.) NA me Date 3/25/14

(10) Additional Reviews

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

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

(11) Approved By\* Paul M. Stiles [Signature] Date 3/31/14

\* Printed Name and Signature

**§50.54(q) Screening Evaluation Form****Activity Description and References:** Change to RP/0/A/1000/002, rev 003**BLOCK 1**

See attached sheet for all changes pertaining to this procedure.

**Activity Scope:****BLOCK 2**

- ☐ The activity is a change to the emergency plan
- ☒ The activity is not a change to the emergency plan

**Change Type:****BLOCK 3****Change Type:****BLOCK 4**

- ☐ The change is editorial or typographical
- ☒ The change is not editorial or typographical
- ☐ The change does conform to an activity that has prior approval
- ☒ The change does not conform to an activity that has prior approval

**Planning Standard Impact Determination:****BLOCK 5**

- ☒ §50.47(b)(1) – Assignment of Responsibility (Organization Control)
- ☐ §50.47(b)(2) – Onsite Emergency Organization
- ☐ §50.47(b)(3) – Emergency Response Support and Resources
- ☐ §50.47(b)(4) – Emergency Classification System\*
- ☐ §50.47(b)(5) – Notification Methods and Procedures\*
- ☐ §50.47(b)(6) – Emergency Communications
- ☐ §50.47(b)(7) – Public Education and Information
- ☐ §50.47(b)(8) – Emergency Facility and Equipment
- ☐ §50.47(b)(9) – Accident Assessment\*
- ☐ §50.47(b)(10) – Protective Response\*
- ☐ §50.47(b)(11) – Radiological Exposure Control
- ☐ §50.47(b)(12) – Medical and Public Health Support
- ☐ §50.47(b)(13) – Recovery Planning and Post-accident Operations
- ☐ §50.47(b)(14) – Drills and Exercises
- ☐ §50.47(b)(15) – Emergency Responder Training
- ☐ §50.47(b)(16) – Emergency Plan Maintenance

**\*Risk Significant Planning Standards**

- ☐ The proposed activity does not impact a Planning Standard

**Commitment Impact Determination:****BLOCK 6**

- ☐ The activity does involve a site specific EP commitment
- Record the commitment or commitment reference: \_\_\_\_\_
- ☒ The activity does not involve a site specific EP commitment

**Results:****BLOCK 7**

- ☐ The activity can be implemented without performing a §50.54(q) effectiveness evaluation
- ☒ The activity cannot be implemented without performing a §50.54(q) effectiveness evaluation

Preparer Name:  
John Kaminski

Preparer Signature

Date:  
3/19/2014Reviewer Name:  
Don Crowl

Reviewer Signature

Date:  
3/25/14

## §50.54(q) Effectiveness Evaluation Form

Activity Description and References: Change to RP/0/A/1000-002 REV 003

BLOCK 1

## Activity Type:

BLOCK 2

- ☐ The activity is a change to the emergency plan
- ☒ The activity affects implementation of the emergency plan, but is not a change to the emergency plan

## Impact and Licensing Basis Determination:

BLOCK 3

Licensing Basis:

1. 10CFR50.47(b).1 Primary responsibilities for emergency response by the nuclear facility licensee and by State and local organizations within the Emergency Planning Zones have been assigned, the emergency responsibilities of the various supporting organizations have been specifically established, and each principal response organization has staff to respond and to augment its initial response on a continuous basis.
2. 10CFR50 Appendix E.IV.A.2 - A description of the onsite emergency response organization (ERO) with a detailed discussion of:
  - a. Authorities, responsibilities, and duties of the individual(s) who will take charge during an emergency;
  - b. Plant staff emergency assignments;
  - c. Authorities, responsibilities, and duties of an onsite emergency coordinator who shall be in charge of the exchange of information with offsite authorities responsible for coordinating and implementing offsite emergency measures.
3. ONS E Plan Section A1.b - During the first critical hours (until outside agencies responsible for public health and safety can properly respond), the Operations Shift Manager on duty at the Oconee Nuclear Station assumes responsibility for initiating protective action required for any location within the Site Boundary or Emergency Planning Zones that may be affected as a result of an emergency. The Operations Shift Manager will determine the emergency action level. Notification of Unusual Events dictate that offsite agencies be notified and that site management and corporate management are made aware of the event. If no further deterioration transpires, the event is closed out and agencies so notified. However, if the event is escalated and determined that a higher action level exists, the Emergency Response Organization is activated.

## Compliance Evaluation and Conclusion:

BLOCK 4

1. Evaluation:

The proposed changes continue to comply with all applicable rules and regulations and ensure that all required license activities are completed, in a timely manner and as prescribed in the ONS E Plan. The proposed changes continue to ensure that the primary responsibilities are defined and assigned, and meets regulatory requirements.

Conclusion:

The proposed activity ☒ does / ☐ does not continue to comply with the requirements.

## Reduction in Effectiveness (RIE) Evaluation and Conclusion:

BLOCK 5

Evaluation:

The proposed changes are being made for the reasons as listed below:

1. Is an enhancement to clarify actions expected.
2. Is an enhancement to ensure IAAT steps are summarized.

As can be seen, a step was added to enhance command and control by directing delegable steps to be done as appropriate, enabling the OSM to provide more oversight of the evolution. There has been no reduction in functions being performed, the changes made to timing and timeliness serve to ensure appropriate implementation of implementing procedures. Further there have been no changes only enhancements to functions and or responsibilities of the OSM as a result of the proposed change. Therefore there is no reduction in effectiveness of the ONS E Plan as a result of the proposed revision.

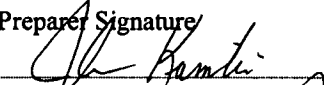
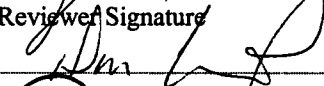
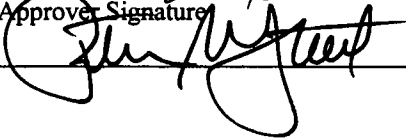
Conclusion:

The proposed activity ☐ does / ☒ does not constitute a RIE.



**Effectiveness Evaluation Results****BLOCK 6**

- ☒ The activity does continue to comply with the requirements of §50.47(b) and §50 Appendix E **and** the activity does not constitute a reduction in effectiveness. Therefore, the activity can be implemented without prior approval.
- ☐ The activity does not continue to comply with the requirements of §50.47(b) and §50 Appendix E **or** the activity does constitute a reduction in effectiveness. Therefore, the activity cannot be implemented without prior approval.

Preparer Name: John Kaminski	Preparer Signature: 	Date: 3/19/2014
Reviewer Name: Don Crowl	Reviewer Signature: 	Date: 3/25/14
Approver Name: Pat Street	Approver Signature: 	Date: 3/31/14

Revision 12

**Attachment to 50.54q****RP/0/A/1000/002, Control Room Emergency Coordinator Procedure, Rev 003  
Comparison Matrix**

Change #	Document Number / Section	Current Wording	Proposed Wording	Reason for Change
1	Encl 4.4 step 1.11	IAAT Large scale fire or flooding damage has ...	IAAT Major damage has ...	Ensure alignment with title and intent of implementing procedure being implemented.
2	Encl 4.8 step 1.11	IAAT Large scale fire or flooding damage has ...	IAAT Major damage has ...	Ensure consistency of summarized IAAT steps.