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ONS-2014-006

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February 12, 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 2014-002

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 2014-01
10 CFR 50.54(q) Evaluation(s)

Ax45
NRR

U. S. Nuclear Regulatory Commission
February 12, 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. Richard Guzman, Project Manager
U. S. Nuclear Regulatory Commission
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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

February 12, 2014

OCONEE NUCLEAR STATION

SUBJECT: Emergency Plan Implementing Procedures
Volume C Revision 2014-006

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

REMOVE

Cover Sheet Rev. 2014-001

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Pages 1, 2, & 3

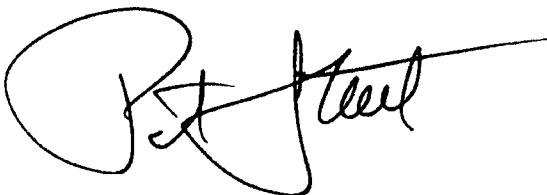
RP/0/B/1000/010 - Rev. 001

INSERT

Cover Sheet Rev. 2014-002

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Pages 1, 2, & 3

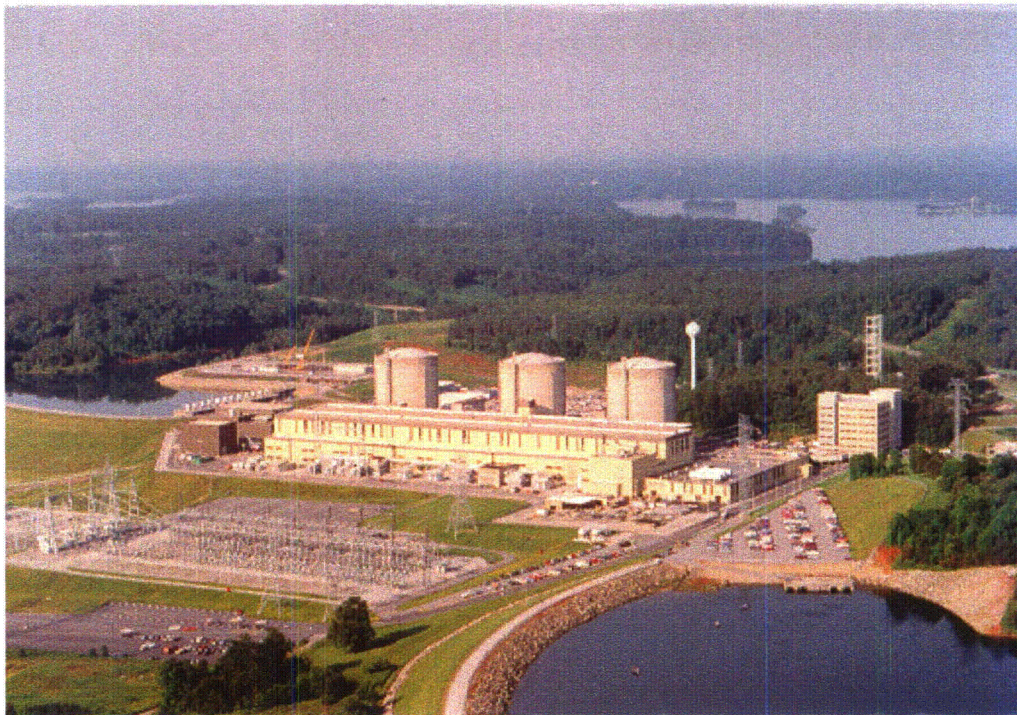
RP/0/A/1000/002 - Rev. 001

A handwritten signature in black ink, appearing to read 'Pat Street', with a long horizontal line extending from the end of the signature.

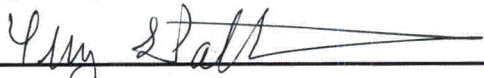
Pat Street
ONS Emergency Planning Manager



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



APPROVED:



Terry L. Patterson
Organizational Effectiveness Director



Date Approved

**VOLUME C
REVISION 2014-002
February 2014**

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HP/0/B/1009/022	On-Shift Off-Site Dose Projections	Rev. 013
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Duke Energy
PROCEDURE PROCESS RECORD

(1) ID No. RP/0/A/1000/002Revision No. 001**PREPARATION**(2) Station OCONEE NUCLEAR STATION(3) Procedure Title Control Room Emergency Coordinator Procedure(4) Prepared By* John Kaminski (Signature) [Signature] Date 01/13/2014

(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* [Signature] Donna A. Crawl (QR)(KI) Date 1-13-2014Cross-Disciplinary Review By* _____ (QR)(KI) NA NA Date 1-13-2014Reactivity Mgmt Review By* _____ (QR) NA NA Date 1-13-2014Mgmt Involvement Review By* _____ (Ops. Supt.) NA NA Date 1-13-2014

(7) Additional Reviews

Reviewed By* _____ Date _____

Reviewed By* _____ Date _____

(8) Approved By* [Signature] [Signature] Date 1/13/14**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)

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

Procedure No.

RP/0/A/1000/002

Revision No.

001

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: *11/21/2013*

Enclosure No.: *FULL*



Revision No.: *001*



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 then press button 1

_____ For a DRILL press "Test" button then press button 3

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.

NOTE: Activation of the ERO is **NOT** 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

NOTE: 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.

NOTE: 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)

{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

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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 | Message 2 |
| ____ ONS Emergency - Bridges | Message 20 |
| ____ ONS Emergency - Security Event | Message 21 |
| ____ ONS Emergency - Bridges <u>AND</u> Security Event | Message 22 |
| ____ ONS Drill | Message 1 |
| ____ ONS Drill - Bridges | Message 10 |
| ____ ONS Drill - Security Event | Message 11 |
| ____ ONS Drill - Bridges <u>AND</u> Security Event | Message 12 |

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

_____ 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.

- _____ 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.

<p>NOTE: 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.</p>

- _____ 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.

Enclosure 4.4
Emergency Coordinator Parallel Actions

RP/0/A/1000/002
Page 2 of 4

WARNING: Conducting Site Assembly during a Security Event may **NOT** be prudent.

- _____ 1.7 **IAAT** The OSM directs that a Site Assembly be initiated,
 THEN Initiate Site Assembly per RP/0/A/1000/009 (Procedure For Site Assembly).
- _____ 1.8 **IAAT** Any Area Radiation Monitor is increasing or is in ALARM,
 OR Steam Line Break has occurred,
 THEN Contact shift RP to dispatch onsite monitoring teams.
- _____ 1.9 **IF** This is a General Emergency,
 THEN Initiate evacuation of all non-essential personnel from the site after personnel accountability has been reached. **REFER TO** RP/0/B/1000/010 (Procedure for Emergency Evacuation/Relocation of Site Personnel).
- _____ 1.10 **IAAT** If notified by the Hydro Group that Condition A Imminent or Actual Dam Failure (Keowee or Jocassee),
 OR Condition B (Keowee) exists,
 THEN **REFER TO** Enclosure 4.3 (Condition A/Condition B Response Actions) for additional PAR and/or response actions.
- _____ 1.11 **IAAT** Large scale fire or flood damage has occurred or is occurring,
 THEN 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 **IAAT** A Security Event is in progress,
 THEN Verify that the 15 minute notification for the Security event has been made to the NRC. { 12 }
- _____ 1.13 **IAAT** A hazardous substance has been released,
 THEN Initiate RP/0/A/1000/017 (Spill Response).

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.

Enclosure 4.4
Emergency Coordinator Parallel Actions

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

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).

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.

_____ Date/Time	_____ Initial	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.

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	≥ 150 mRad/Hr	4.3
RIA-8	≥ 4200 mRad/Hr	4.3
RIA-10	≥ 830 mRad/Hr	4.3
RIA-11	≥ 210 mRad/Hr	4.3
RIA-12	≥ 800 mRad/Hr	4.3
RIA-13	≥ 650 mRad/Hr	4.3
RIA-15	≥ 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	≥ 1.0 R/Hr	4.1
2RIA-57	≥ 1.6 R/Hr	4.1
1,2,3RIA-58	≥ 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	≥ 500 mrem CDE Adult Thyroid on one hour of inhalation	4.3
Field Monitoring Indications	≥ 100 mRad/Hr at Site Boundary expected to continue for $> one$ hour	4.3
Control Room, CAS, or Radwaste CR Radiation Levels	Valid Reading ≥ 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...
- (2.7) The Hydro Group notified the Control Room that Condition A, Imminent or Actual Dam Failure (Keowee or Jocassee) or Condition B at Keowee exists...
- (2.14) abnormal radiation levels or releases are occurring or have occurred...
- (2.16) 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) large scale fire or flood 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 **Button 1**

_____ ONS Emergency Bridges **Button 2**

_____ ONS Drill **Button 3**

_____ ONS Drill Bridges **Button 4**

_____ Alternate TSC/OSC **Button 5**

_____ Emergency AND a Security **Button 6**
 Event In Progress

_____ Drill AND a Security **Button 10**
 Event In Progress

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.

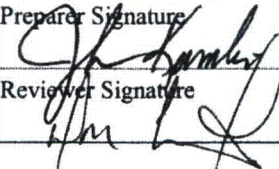
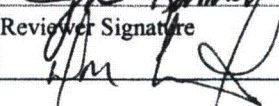
{10}

Enclosure 4.11
References

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

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

§50.54(q) Screening Evaluation Form

Activity Description and References: Change to RP/0/A/1000/002, rev 001		BLOCK 1
See attached sheet for all changes pertaining to this procedure.		
Activity Scope:		BLOCK 2
<input type="checkbox"/> The activity <u>is</u> a <i>change</i> to the <i>emergency plan</i> <input checked="" type="checkbox"/> The activity <u>is not</u> a <i>change</i> to the <i>emergency plan</i>		
Change Type:	BLOCK 3	Change Type:
<input type="checkbox"/> The change <u>is</u> editorial or typographical <input checked="" type="checkbox"/> The change <u>is not</u> editorial or typographical		<input type="checkbox"/> The change <u>does</u> conform to an activity that has prior approval <input checked="" type="checkbox"/> The change <u>does not</u> conform to an activity that has prior approval
Planning Standard Impact Determination:		BLOCK 5
<input checked="" type="checkbox"/> §50.47(b)(1) – Assignment of Responsibility (Organization Control) <input type="checkbox"/> §50.47(b)(2) – Onsite Emergency Organization <input type="checkbox"/> §50.47(b)(3) – Emergency Response Support and Resources <input type="checkbox"/> §50.47(b)(4) – Emergency Classification System* <input checked="" type="checkbox"/> §50.47(b)(5) – Notification Methods and Procedures* <input checked="" type="checkbox"/> §50.47(b)(6) – Emergency Communications <input type="checkbox"/> §50.47(b)(7) – Public Education and Information <input type="checkbox"/> §50.47(b)(8) – Emergency Facility and Equipment <input type="checkbox"/> §50.47(b)(9) – Accident Assessment* <input checked="" type="checkbox"/> §50.47(b)(10) – Protective Response* <input type="checkbox"/> §50.47(b)(11) – Radiological Exposure Control <input type="checkbox"/> §50.47(b)(12) – Medical and Public Health Support <input type="checkbox"/> §50.47(b)(13) – Recovery Planning and Post-accident Operations <input type="checkbox"/> §50.47(b)(14) – Drills and Exercises <input type="checkbox"/> §50.47(b)(15) – Emergency Responder Training <input type="checkbox"/> §50.47(b)(16) – Emergency Plan Maintenance *Risk Significant Planning Standards <input type="checkbox"/> The proposed activity does not impact a Planning Standard		
Commitment Impact Determination:		BLOCK 6
<input type="checkbox"/> The activity <u>does</u> involve a site specific EP commitment Record the commitment or commitment reference: _____ <input checked="" type="checkbox"/> The activity <u>does not</u> involve a site specific EP commitment		
Results:		BLOCK 7
<input type="checkbox"/> The activity <u>can</u> be implemented without performing a §50.54(q) effectiveness evaluation <input checked="" type="checkbox"/> The activity <u>cannot</u> be implemented without performing a §50.54(q) effectiveness evaluation		
Preparer Name: John Kaminski	Preparer Signature: 	Date: 1/13/2014
Reviewer Name: Don Crowl	Reviewer Signature: 	Date: 1-13-2014

§50.54(q) Effectiveness Evaluation Form

Activity Description and References: Change to RP/0/A/1000-002 REV 001

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. **10CFR50.47(b).5** Procedures have been established for notification, by the licensee, of State and local response organizations and for notification of emergency personnel by all organizations; the content of initial and followup messages to response organizations and the public has been established; and means to provide early notification and clear instruction to the populace within the plume exposure pathway Emergency Planning Zone have been established.
3. **10CFR50.47(b).6** Provisions exist for prompt communications among principal response organizations to emergency personnel and to the public.
4. **10CFR50.47(b).10** A range of protective actions has been developed for the plume exposure pathway EPZ for emergency workers and the public. In developing this range of actions, consideration has been given to evacuation, sheltering, and, as a supplement to these, the prophylactic use of potassium iodide (KI), as appropriate. Evacuation time estimates have been developed by applicants and licensees. Licensees shall update the evacuation time estimates on a periodic basis. Guidelines for the choice of protective actions during an emergency, consistent with Federal guidance, are developed and in place, and protective actions for the ingestion exposure pathway EPZ appropriate to the locale have been developed.
5. **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.
6. **10CFR50 Appendix E.IV.D.1** - Administrative and physical means for notifying local, State, and Federal officials and agencies and agreements reached with these officials and agencies for the prompt notification of the public and for public evacuation or other protective measures, should they become necessary, shall be described. This description shall include identification of the appropriate officials, by title and agency, of the State and local government agencies within the EPZs.
7. **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.
8. **ONS E Plan Section E1 & 2** - Response Organization Notification Procedures have been developed that describe the basis for notification of response organizations that is consistent with the emergency classification and action level scheme.
9. **ONS E Plan Section E3 & 4** - A single message format has been established that will be used by the Oconee Nuclear Site to properly notify Oconee and Pickens Counties and the South Carolina Emergency Management Division of an emergency situation at the facility. Notification and authentication procedures are in place for all designated agencies.

10. **ONS E Plan Section F.1e** - Should an emergency occur that will require activation of the Emergency Response Organization, the Operations Shift Manager will require the following actions to occur:

1. Have announced over the Public Address system that the Emergency Response Organization (Technical Support Center and Operational Support Center) are to be staffed.
2. Activate the offsite pagers from the TSC or request the Switchboard to activate offsite pagers.
3. Notify Duty Operations Engineer who verifies Plant Manager and Superintendent of Operations have been notified.
4. Initiate a Site Assembly
5. Individual groups will contact corporate personnel for support.

11. **ONS E Plan Section J** - To assure that a range of protective actions is available for the plume exposure pathway for emergency workers and the public. Guidelines for protective actions during an emergency, consistent with Federal guidance, are developed and in place and protective actions for the ingestion exposure pathway appropriate to the locale have been developed. To protect onsite personnel during hostile action and ensure the continued ability to safely shutdown the reactor and perform the functions of the emergency plan a range of protective actions are in place.

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, notification process is established and meets regulatory requirements, provides for prompt communications/announcements to the station personnel and offsite agencies, and assures appropriate protection of personnel.

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. Adds a note to ensure appropriate reviews are completed as required.
2. Is an enhancement to more clearly depict command and control - changes appoint to direct, and delegates making of a PA announcement.
3. Is an enhancement to clarify actions expected.
4. Is an editorial change to Enclosure numbers
5. Is an enhancement to more clearly depict command and control - changes appoint to direct.
6. Is an enhancement to ensure Announcements are earlier in the process
7. Is an enhancement to include phone numbers of offsite agencies in the event of a dam failure
8. Is an enhancement to more clearly depict command and control - delegable task.
9. Is an enhancement to clarify procedure expectations.
10. Is an enhancement to more clearly depict command and control - changes appoint to direct.
11. Is an enhancement to initiate site assembly / accountability earlier in process, removes specific listing of enclosures to minimize chance of changing one procedure without identifying needed change to others
12. Is an enhancement from a drill comment and directs AO's to the OSC.
13. Is an editorial change for enclosures numbers, and an enhancement that added the 1 new enclosures.
- 14 through 23 Generally are editorial renumbering enclosures to put them in order they are used by the procedure.
- 15 Is an enhancement to put announcements into one enclosure.
16. Is an enhancement to match title and actions, clarify actions expected, demonstrate command and control, clarity title of CR NRC Communicator and clearly define who may authorize entry into a 10CFR50.54x situation.
17. Is an enhancement to remove log sheets from the enclosure as these are duplicates to forms provided.
18. Is an editorial renumbering of enclosure
19. Is an editorial renumbering of enclosure and procedure.
20. Is an editorial change to include changes made to immediate actions steps and IAAT steps detailed previously in the procedure.
21. Is an editorial renumbering of enclosure, and deleted an incorrect action that directed return to step 2.13
22. Is an editorial renumbering of enclosure
23. Is an editorial renumbering of enclosure.

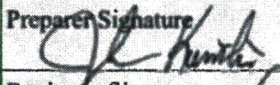
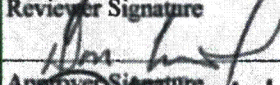
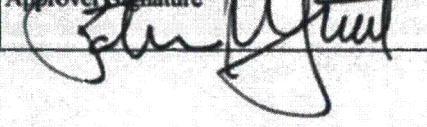
As can be seen, no new assignments were made, the timing of announcements and assembly are enhanced by moving them closer to the beginning of the procedure, and command and control is further enhanced by directing delegable steps to be done as appropriate, enabling the OSM to provide more oversight of the evolution. There has been no reduction in functions being performed, the changes made to timing and timeliness serve to enhance the announcements and assembly functions by putting them earlier in the procedure enabling them to be done sooner. Further there have been no changes to functions and or responsibilities of the OSM as a result of the proposed change. Therefore there is no reduction in effectiveness from 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: 1/13/14
Reviewer Name: Don Crowl	Reviewer Signature 	Date: 1-13-2014
Approver Name: Pat Street	Approver Signature 	Date: 1/13/14

Attachment to 50.54q

RP/0/A/1000/002, Control Room Emergency Coordinator Procedure, Rev 001 Comparison Matrix				
Change #	Document Number / Section	Current Wording	Proposed Wording	Reason for Change
1	Procedure / NOTE	This procedure is an implementing procedure to the Oconee Nuclear Station Emergency Plan and must be forwarded to Emergency Planning within seven (7) working days of approval.	This procedure is an implementing procedure to the Oconee Nuclear Site Emergency Plan and must be:	Enhancement - More clearly sets out the expectations for changing the procedure.
2	Procedure / step 2.5	Appoint Control Room Offsite Communicator(s) and perform <ul style="list-style-type: none"> Notify Offsite... 	Direct Control Room Offsite Communicator to perform... <ul style="list-style-type: none"> Refer to ... 	Enhancement - shows clear command / control and delegation of tasks
3	Procedure / step 2.6	Re-initiate a clean copy of this procedure for the upgraded classification AND stop this procedure.	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.	Enhancement more clearly details expectations.
4	Procedure step 2.7.7	Refer to Enclosure 4.9	Refer to Enclosure 4.10	Editorial change
5	Procedure / step 2.8	Provide Offsite Communicator with Emergency Notification Form and direct him/her to perform the following using RP/0/A/1000/015A, (Offsite Communications From The Control Room):	Provide the Offsite Communicator with Emergency Notification Form and direct him/her to perform RP/0/A/1000/015A, (Offsite Communications From The Control Room). Verify completion of Notifications of State and County completed within 15 minutes.	Enhancement - cleaned up procedure of instructions contained in another
6	Procedure / step 2.9	NA	Make PA announcement regarding classification (see Enclosure 4.2)	Moved PA announcement to earlier in procedure.
7	Procedure / Step 2.10 ...	NA	<u>AND</u> Ensure that notification...	Editorial- renumbered for format consistency. Added phone numbers as these phone calls must be made quickly
8	Procedure / step 2.13	Activate the Emergency Response Organization (ERO) by performing Enclosure 4.4, (ERO Pager Activation).	Direct activation of the Emergency Response Organization (ERO) by performing Enclosure 4.1, (ERO Pager Activation).	Enhancement - this step is delegable, and helps to ensure the OSM remains near the at the controls area.
9	2.14	Maintain Enclosure 4.1, (OSM Emergency Coordinator Log/Turnover Sheet).	Implement Enclosure 4.5, (OSM Emergency Coordinator Turnover Sheet).	Enhancement - clarified procedure expectation, revised title of enclosure
10	Procedure / step 2.16.1	Appoint a qualified individual	Direct a qualified individual to	Enhancement - shows clear command / control

RP/0/A/1000/002, Control Room Emergency Coordinator Procedure, Rev 001 Comparison Matrix				
11	Procedure / step 2.17	NA	2.16 IAAT a Site Assembly needs to be initiated, THEN Initiate Site Assembly per RP/0/A/1000/009, (Procedure For Site Assembly)	Enhancement - initiates site assembly / accountability earlier in process, removes specific listing of enclosures to minimize chance of changing one procedure without identifying needed change to others,
12	Procedure / step 3.2.1 B	NA	B. Direct all available Auxiliary Operators (AOs) to report to the OSC to support damage repair efforts.	Enhancement from drill - direction for NEOs to go to OSC is appropriate.
13	Procedure / Section 4.0	4.1 OSM Emergency Coordinator Log/Turnover Sheet 4.2 Emergency Classification Termination Criteria 4.3 Condition A/ Condition B Response Actions 4.4 ERO Pager Activation 4.5 Emergency Coordinator Parallel Actions 4.6 Radiation Monitoring 4.7 Summary of IAAT Steps 4.8 ERO Pager Activation By Security 4.9 Event Prognosis Definitions 4.10 References	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	Enhancement - Put Enclosures in order they are used in procedure. Added new enclosure number 4.2.
14	Enclosure 4.1	OSM Emergency Coordinator Log/Turnover Sheet	ERO Pager Activation	Enhancement moved from Enclosure 4.4
15	Enclosure 4.2	Emergency Classification and Termination	Plan Public Address Announcements -	Enhancement - moved from Enclosure 4.5 to its own enclosure - now completed earlier in procedure uses same words as before.

RP/0/A/1000/002, Control Room Emergency Coordinator Procedure, Rev 001 Comparison Matrix				
16	Enclosure 4.4	ERO Pager Activation	<p>Emergency Coordinator Parallel Actions</p> <ol style="list-style-type: none"> 1. Emergency Coordinator Parallel Actions. 2. Restart with a clean copy of this enclosure and stop the current copy of the enclosure 3. Direct an SRO to make 4. CR NRC Communicator 5. Removed specific reference to enclosures within another procedure (RP/0/A/1000/009) 6. Updated safety classification of RP/0/A/1000/017 7. ... minimum (anyone more senior than the SRO may approve). 	<p>Enhancement - moved from 4.5 to 4.4 to be in order of use</p> <ol style="list-style-type: none"> 1- Enhancement matches title of enclosure to Actions 2. Enhancement clarifies action 3. Enhancement to show command and control 4. Corrects title 5. Enhancement to prevent potential future configuration control issue. 6 Editorial correction. 7. Enhancement to more clearly define who may authorize.
17	Enclosure 4.5	<p>Emergency Coordinator Parallel Actions</p> <ol style="list-style-type: none"> 1. Emergency Coordinator Parallel Actions. 2. Restart with a clean copy of this enclosure and stop the current copy of the enclosure 3. Direct an SRO to make 4. CR NRC Communicator 5. Removed specific reference to enclosures within another procedure (RP/0/A/1000/009) 6. Updated safety classification of RP/0/A/1000/017 7. ... minimum (anyone more senior than the SRO may approve). 	<p>OSM Emergency Coordinator Turnover Sheet</p> <ul style="list-style-type: none"> • Updated safety classification of RP/0/A/1000/017 • removed log sheets as these are provided 	<p>Enhancement - moved from 4.1 to 4.5 to be in order of use.</p> <ul style="list-style-type: none"> • Editorial correction • Enhancement as log sheets are duplicates of forms provided.
18	Enclosure 4.6	Radiation Monitoring	Emergency Classification Termination Criteria	Enhancement - moved from 4.2 to 4.6 to be in order of use.
19	Enclosure 4.7	<p>Summary of IAAT Steps</p> <ol style="list-style-type: none"> 1 - NA 2 - Emergency Coordinator Assistant's parallel ... 	<p>Radiation Monitoring</p> <ul style="list-style-type: none"> • Updated safety classification of RP/0/A/1000/001 	<p>Enhancement - moved from 4.7 to 4.8 to be in order of use.</p> <ul style="list-style-type: none"> • Editorial correction

Attachment to 50.54q

RP/0/A/1000/002, Control Room Emergency Coordinator Procedure, Rev 001 Comparison Matrix				
20	Enclosure 4.8	ERO Pager Activation By Security step 2.13 Return to...	Summary of IAAT Steps 1. Added 2.16 site assembly... 2. Enclosure 4.5 Emergency Coordinator parallel ...	Enhancement - moved from 4.8 to 4.9 to be in order of use. 1. Enhancement to ensure site assembly is initiated when appropriate. 2. Corrects title and number of enclosure.
21	Enclosure 4.9	Event Prognosis Definitions	ERO Pager Activation By Security deleted step 2.13	Enhancement - moved from 4.9 to 4.10 to be in order of use. Step was incorrect.
22	Enclosure 4.10	Reference	Event Prognosis Definitions	Enhancement - moved information from within the body of the procedure for ease of use.
23	Enclosure 4.12	NA	References	Enhancement - moved from 4.10 to 4.12 to be in order of use.

February 12, 2014

OCONEE NUCLEAR STATION

SUBJECT: Emergency Plan Implementing Procedures
Volume C Revision 2014-006

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

REMOVE

Cover Sheet Rev. 2014-001

Table of Contents
Pages 1, 2, & 3

RP/0/B/1000/010 - Rev. 001

INSERT

Cover Sheet Rev. 2014-002

Table of Contents
Pages 1, 2, & 3

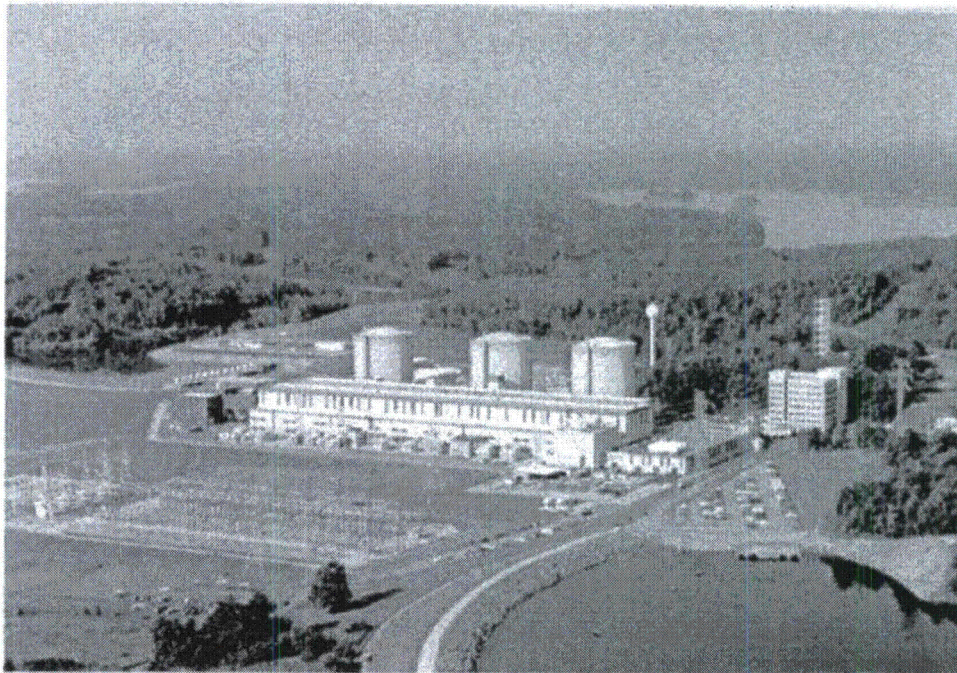
RP/0/A/1000/002 - Rev. 001

A handwritten signature in black ink, appearing to read 'Pat Street', with a large, stylized initial 'P' and a long horizontal stroke extending to the right.

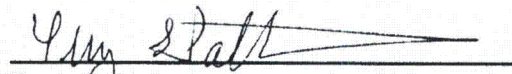
Pat Street
ONS Emergency Planning Manager



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



APPROVED:



Terry L. Patterson
Organizational Effectiveness Director



Date Approved

**VOLUME C
REVISION 2014-002
February 2014**

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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.	001
RP/0/B/1000/002	Control Room Emergency Coordinator Procedure	Rev.	025
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

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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/B/1000/035	Severe Weather Preparations	Rev. 009
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. 030
Human Resources Procedure	ONS Human Resources Emergency Plan	10/13/2004
Radiation Protection Section Manual 11.3	Off-Site Dose Assessment And Data Evaluation	Rev. 001

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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
PROCEDURE PROCESS RECORD

(1) ID No. RP/0/A/1000/002Revision No. 001**PREPARATION**(2) Station OCONEE NUCLEAR STATION(3) Procedure Title Control Room Emergency Coordinator Procedure(4) Prepared By* John Kaminski (Signature) [Signature] Date 01/13/2014

(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* [Signature] Douglas A. Cawell (QR)(KI) Date 1-13-2014Cross-Disciplinary Review By* _____ (QR)(KI) NA NA Date 1-13-2014Reactivity Mgmt Review By* _____ (QR) NA NA Date 1-13-2014Mgmt Involvement Review By* _____ (Ops. Supt.) NA NA Date 1-13-2014

(7) Additional Reviews

Reviewed By* _____ Date _____

Reviewed By* [Signature] Date 1/13/14(8) Approved By* [Signature] Date 1/13/14**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)

Duke Energy
Oconee Nuclear Station
Control Room Emergency Coordinator Procedure

Procedure No.

RP/0/A/1000/002

Revision No.

001

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: *11/21/2013*

Enclosure No.: *FULL*



Revision No.: *001*



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 then press button 1
____ For a DRILL press "Test" button then press button 3

- 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 }

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.

_____ 2.7.1 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.

NOTE: Activation of the ERO is **NOT** 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

NOTE: 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.

NOTE: 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) {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 | Message 2 |
| _____ | ONS Emergency - Bridges | Message 20 |
| _____ | ONS Emergency - Security Event | Message 21 |
| _____ | ONS Emergency - Bridges <u>AND</u> Security Event | Message 22 |
| _____ | ONS Drill | Message 1 |
| _____ | ONS Drill - Bridges | Message 10 |
| _____ | ONS Drill - Security Event | Message 11 |
| _____ | ONS Drill - Bridges <u>AND</u> Security Event | Message 12 |

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

_____ 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.

<p>NOTE: 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.</p>

- _____ 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 units(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.

Enclosure 4.4
Emergency Coordinator Parallel Actions

RP/0/A/1000/002
Page 2 of 4

WARNING: Conducting Site Assembly during a Security Event may **NOT** be prudent.

- _____ 1.7 **IAAT** The OSM directs that a Site Assembly be initiated,
 THEN Initiate Site Assembly per RP/0/A/1000/009 (Procedure For Site Assembly).
- _____ 1.8 **IAAT** Any Area Radiation Monitor is increasing or is in ALARM,
 OR Steam Line Break has occurred,
 THEN Contact shift RP to dispatch onsite monitoring teams.
- _____ 1.9 **IF** This is a General Emergency,
 THEN Initiate evacuation of all non-essential personnel from the site after personnel accountability has been reached. **REFER TO** RP/0/B/1000/010 (Procedure for Emergency Evacuation/Relocation of Site Personnel).
- _____ 1.10 **IAAT** If notified by the Hydro Group that Condition A Imminent or Actual Dam Failure (Keowee or Jocassee),
 OR Condition B (Keowee) exists,
 THEN **REFER TO** Enclosure 4.3 (Condition A/Condition B Response Actions) for additional PAR and/or response actions.
- _____ 1.11 **IAAT** Large scale fire or flood damage has occurred or is occurring,
 THEN 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 **IAAT** A Security Event is in progress,
 THEN Verify that the 15 minute notification for the Security event has been made to the NRC. {12}
- _____ 1.13 **IAAT** A hazardous substance has been released,
 THEN Initiate RP/0/A/1000/017 (Spill Response).

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).

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.
- _____

Date/Time

Initial

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.

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	≥ 150 mRad/Hr	4.3
RIA-8	≥ 4200 mRad/Hr	4.3
RIA-10	≥ 830 mRad/Hr	4.3
RIA-11	≥ 210 mRad/Hr	4.3
RIA-12	≥ 800 mRad/Hr	4.3
RIA-13	≥ 650 mRad/Hr	4.3
RIA-15	≥ 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	≥ 1.0 R/Hr	4.1
2RIA-57	≥ 1.6 R/Hr	4.1
1,2,3RIA-58	≥ 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	≥ 500 mrem CDE Adult Thyroid on one hour of inhalation	4.3
Field Monitoring Indications	≥ 100 mRad/Hr at Site Boundary expected to continue for $> one$ hour	4.3
Control Room, CAS, or Radwaste CR Radiation Levels	Valid Reading ≥ 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...
- (2.7) The Hydro Group notified the Control Room that Condition A, Imminent or Actual Dam Failure (Keowee or Jocassee) or Condition B at Keowee exists...
- (2.14) abnormal radiation levels or releases are occurring or have occurred...
- (2.16) 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) large scale fire or flood 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	Button 1
_____	ONS Emergency Bridges	Button 2
_____	ONS Drill	Button 3
_____	ONS Drill Bridges	Button 4
_____	Alternate TSC/OSC	Button 5
_____	Emergency <u>AND</u> a Security Event In Progress	Button 6
_____	Drill <u>AND</u> a Security Event In Progress	Button 10

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}

Enclosure 4.11

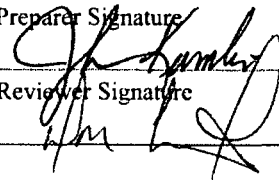
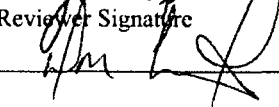
References

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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

§50.54(q) Screening Evaluation Form

Activity Description and References: Change to RP/0/A/1000/002, rev 001 See attached sheet for all changes pertaining to this procedure.		BLOCK 1	
Activity Scope: <input type="checkbox"/> The activity <u>is</u> a <i>change</i> to the <i>emergency plan</i> <input checked="" type="checkbox"/> The activity <u>is not</u> a <i>change</i> to the <i>emergency plan</i>		BLOCK 2	
Change Type: <input type="checkbox"/> The change <u>is</u> editorial or typographical <input checked="" type="checkbox"/> The change <u>is not</u> editorial or typographical	BLOCK 3	Change Type: <input type="checkbox"/> The change <u>does</u> conform to an activity that has prior approval <input checked="" type="checkbox"/> The change <u>does not</u> conform to an activity that has prior approval	BLOCK 4
Planning Standard Impact Determination: <input checked="" type="checkbox"/> §50.47(b)(1) – Assignment of Responsibility (Organization Control) <input type="checkbox"/> §50.47(b)(2) – Onsite Emergency Organization <input type="checkbox"/> §50.47(b)(3) – Emergency Response Support and Resources <input type="checkbox"/> §50.47(b)(4) – Emergency Classification System* <input checked="" type="checkbox"/> §50.47(b)(5) – Notification Methods and Procedures* <input checked="" type="checkbox"/> §50.47(b)(6) – Emergency Communications <input type="checkbox"/> §50.47(b)(7) – Public Education and Information <input type="checkbox"/> §50.47(b)(8) – Emergency Facility and Equipment <input type="checkbox"/> §50.47(b)(9) – Accident Assessment* <input checked="" type="checkbox"/> §50.47(b)(10) – Protective Response* <input type="checkbox"/> §50.47(b)(11) – Radiological Exposure Control <input type="checkbox"/> §50.47(b)(12) – Medical and Public Health Support <input type="checkbox"/> §50.47(b)(13) – Recovery Planning and Post-accident Operations <input type="checkbox"/> §50.47(b)(14) – Drills and Exercises <input type="checkbox"/> §50.47(b)(15) – Emergency Responder Training <input type="checkbox"/> §50.47(b)(16) – Emergency Plan Maintenance *Risk Significant Planning Standards <input type="checkbox"/> The proposed activity does not impact a Planning Standard		BLOCK 5	
Commitment Impact Determination: <input type="checkbox"/> The activity <u>does</u> involve a site specific EP commitment Record the commitment or commitment reference: _____ <input checked="" type="checkbox"/> The activity <u>does not</u> involve a site specific EP commitment		BLOCK 6	
Results: <input type="checkbox"/> The activity <u>can</u> be implemented without performing a §50.54(q) effectiveness evaluation <input checked="" type="checkbox"/> The activity <u>cannot</u> be implemented without performing a §50.54(q) effectiveness evaluation		BLOCK 7	
Preparer Name: John Kaminski	Preparer Signature: 	Date: 1/13/2014	
Reviewer Name: Don Crowl	Reviewer Signature: 	Date: 1-13-2014	

§50.54(q) Effectiveness Evaluation Form**Activity Description and References: Change to RP/0/A/1000-002 REV 001****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. **10CFR50.47(b).5** Procedures have been established for notification, by the licensee, of State and local response organizations and for notification of emergency personnel by all organizations; the content of initial and followup messages to response organizations and the public has been established; and means to provide early notification and clear instruction to the populace within the plume exposure pathway Emergency Planning Zone have been established.
3. **10CFR50.47(b).6** Provisions exist for prompt communications among principal response organizations to emergency personnel and to the public.
4. **10CFR50.47(b).10** A range of protective actions has been developed for the plume exposure pathway EPZ for emergency workers and the public. In developing this range of actions, consideration has been given to evacuation, sheltering, and, as a supplement to these, the prophylactic use of potassium iodide (KI), as appropriate. Evacuation time estimates have been developed by applicants and licensees. Licensees shall update the evacuation time estimates on a periodic basis. Guidelines for the choice of protective actions during an emergency, consistent with Federal guidance, are developed and in place, and protective actions for the ingestion exposure pathway EPZ appropriate to the locale have been developed.
5. **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.
6. **10CFR50 Appendix E.IV.D.1** - Administrative and physical means for notifying local, State, and Federal officials and agencies and agreements reached with these officials and agencies for the prompt notification of the public and for public evacuation or other protective measures, should they become necessary, shall be described. This description shall include identification of the appropriate officials, by title and agency, of the State and local government agencies within the EPZs.
7. **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.
8. **ONS E Plan Section E1 & 2** - Response Organization Notification Procedures have been developed that describe the basis for notification of response organizations that is consistent with the emergency classification and action level scheme.
9. **ONS E Plan Section E3 & 4** - A single message format has been established that will be used by the Oconee Nuclear Site to properly notify Oconee and Pickens Counties and the South Carolina Emergency Management Division of an emergency situation at the facility. Notification and authentication procedures are in place for all designated agencies.

10. **ONS E Plan Section F.1e** - Should an emergency occur that will require activation of the Emergency Response Organization, the Operations Shift Manager will require the following actions to occur:

1. Have announced over the Public Address system that the Emergency Response Organization (Technical Support Center and Operational Support Center) are to be staffed.
2. Activate the offsite pagers from the TSC or request the Switchboard to activate offsite pagers.
3. Notify Duty Operations Engineer who verifies Plant Manager and Superintendent of Operations have been notified.
4. Initiate a Site Assembly
5. Individual groups will contact corporate personnel for support.

11. **ONS E Plan Section J** - To assure that a range of protective actions is available for the plume exposure pathway for emergency workers and the public. Guidelines for protective actions during an emergency, consistent with Federal guidance, are developed and in place and protective actions for the ingestion exposure pathway appropriate to the locale have been developed. To protect onsite personnel during hostile action and ensure the continued ability to safely shutdown the reactor and perform the functions of the emergency plan a range of protective actions are in place.

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, notification process is established and meets regulatory requirements, provides for prompt communications/announcements to the station personnel and offsite agencies, and assures appropriate protection of personnel.

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. Adds a note to ensure appropriate reviews are completed as required.
2. Is an enhancement to more clearly depict command and control - changes appoint to direct, and delegates making of a PA announcement.
3. Is an enhancement to clarify actions expected.
4. Is an editorial change to Enclosure numbers
5. Is an enhancement to more clearly depict command and control - changes appoint to direct.
6. Is an enhancement to ensure Announcements are earlier in the process
7. Is an enhancement to include phone numbers of offsite agencies in the event of a dam failure
8. Is an enhancement to more clearly depict command and control - delegable task.
9. Is an enhancement to clarify procedure expectations.
10. Is an enhancement to more clearly depict command and control - changes appoint to direct.
11. Is an enhancement to initiate site assembly / accountability earlier in process, removes specific listing of enclosures to minimize chance of changing one procedure without identifying needed change to others
12. Is an enhancement from a drill comment and directs AO's to the OSC.
13. Is an editorial change for enclosures numbers, and an enhancement that added the 1 new enclosures.
- 14 through 23 Generally are editorial renumbering enclosures to put them in order they are used by the procedure.
- 15 Is an enhancement to put announcements into one enclosure.
16. Is an enhancement to match title and actions, clarify actions expected, demonstrate command and control, clarity title of CR NRC Communicator and clearly define who may authorize entry into a 10CFR50.54x situation.
17. Is an enhancement to remove log sheets from the enclosure as these are duplicates to forms provided.
18. Is an editorial renumbering of enclosure
19. Is an editorial renumbering of enclosure and procedure.
20. Is an editorial change to include changes made to immediate actions steps and IAAT steps detailed previously in the procedure.
21. Is an editorial renumbering of enclosure, and deleted an incorrect action that directed return to step 2.13
22. Is an editorial renumbering of enclosure
23. Is an editorial renumbering of enclosure.


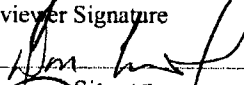
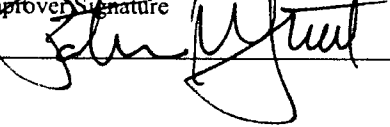
As can be seen, no new assignments were made, the timing of announcements and assembly are enhanced by moving them closer to the beginning of the procedure, and command and control is further enhanced by directing delegable steps to be done as appropriate, enabling the OSM to provide more oversight of the evolution. There has been no reduction in functions being performed, the changes made to timing and timeliness serve to enhance the announcements and assembly functions by putting them earlier in the procedure enabling them to be done sooner. Further there have been no changes to functions and or responsibilities of the OSM as a result of the proposed change. Therefore there is no reduction in effectiveness from 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: 1/13/14
Reviewer Name: Don Crowl	Reviewer Signature: 	Date: 1-13-2014
Approver Name: Pat Street	Approver Signature: 	Date: 1/13/14

RP/0/A/1000/002, Control Room Emergency Coordinator Procedure, Rev 001 Comparison Matrix				
Change #	Document Number / Section	Current Wording	Proposed Wording	Reason for Change
1	Procedure / NOTE	This procedure is an implementing procedure to the Oconee Nuclear Station Emergency Plan and must be forwarded to Emergency Planning within seven (7) working days of approval.	This procedure is an implementing procedure to the Oconee Nuclear Site Emergency Plan and must be:	Enhancement - More clearly sets out the expectations for changing the procedure.
2	Procedure / step 2.5	Appoint Control Room Offsite Communicator(s) and perform <ul style="list-style-type: none"> Notify Offsite... 	Direct Control Room Offsite Communicator to perform... <ul style="list-style-type: none"> Refer to ... 	Enhancement - shows clear command / control and delegation of tasks
3	Procedure / step 2.6	Re-initiate a clean copy of this procedure for the upgraded classification AND stop this procedure.	Start a new clean copy of this procedure for the upgraded classification <u>AND</u> stop working on this copy, noting the time in your log that each new copy started.	Enhancement more clearly details expectations.
4	Procedure step 2.7.7	Refer to Enclosure 4.9	Refer to Enclosure 4.10	Editorial change
5	Procedure / step 2.8	Provide Offsite Communicator with Emergency Notification Form and direct him/her to perform the following using RP/0/A/1000/015A, (Offsite Communications From The Control Room):	Provide the Offsite Communicator with Emergency Notification Form and direct him/her to perform RP/0/A/1000/015A, (Offsite Communications From The Control Room). Verify completion of Notifications of State and County completed within 15 minutes.	Enhancement - cleaned up procedure of instructions contained in another
6	Procedure / step 2.9	NA	Make PA announcement regarding classification (see Enclosure 4.2)	Moved PA announcement to earlier in procedure.
7	Procedure / Step 2.10 ...	NA	<u>AND</u> Ensure that notification...	Editorial- renumbered for format consistency. Added phone numbers as these phone calls must be made quickly
8	Procedure / step 2.13	Activate the Emergency Response Organization (ERO) by performing Enclosure 4.4, (ERO Pager Activation).	Direct activation of the Emergency Response Organization (ERO) by performing Enclosure 4.1, (ERO Pager Activation).	Enhancement - this step is delegable, and helps to ensure the OSM remains near the at the controls area.
9	2.14	Maintain Enclosure 4.1, (OSM Emergency Coordinator Log/Turnover Sheet).	Implement Enclosure 4.5, (OSM Emergency Coordinator Turnover Sheet).	Enhancement - clarified procedure expectation, revised title of enclosure
10	Procedure / step 2.16.1	Appoint a qualified individual	Direct a qualified individual to	Enhancement - shows clear command / control

RP/0/A/1000/002, Control Room Emergency Coordinator Procedure, Rev 001
Comparison Matrix

11	Procedure / step 2.17	NA	2.16 IAAT a Site Assembly needs to be initiated, THEN Initiate Site Assembly per RP/0/A/1000/009, (Procedure For Site Assembly)	Enhancement - initiates site assembly / accountability earlier in process, removes specific listing of enclosures to minimize chance of changing one procedure without identifying needed change to others,
12	Procedure / step 3.2.1 B	NA	B. Direct all available Auxiliary Operators (AOs) to report to the OSC to support damage repair efforts.	Enhancement from drill - direction for NEOs to go to OSC is appropriate.
13	Procedure / Section 4.0	4.1 OSM Emergency Coordinator Log/Turnover Sheet 4.2 Emergency Classification Termination Criteria 4.3 Condition A/ Condition B Response Actions 4.4 ERO Pager Activation 4.5 Emergency Coordinator Parallel Actions 4.6 Radiation Monitoring 4.7 Summary of IAAT Steps 4.8 ERO Pager Activation By Security 4.9 Event Prognosis Definitions 4.10 References	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	Enhancement - Put Enclosures in order they are used in procedure. Added new enclosure number 4.2.
14	Enclosure 4.1	OSM Emergency Coordinator Log/Turnover Sheet	ERO Pager Activation	Enhancement moved from Enclosure 4.4
15	Enclosure 4.2	Emergency Classification and Termination	Plan Public Address Announcements -	Enhancement - moved from Enclosure 4.5 to its own enclosure - now completed earlier in procedure uses same words as before.

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Comparison Matrix

16	Enclosure 4.4	ERO Pager Activation	<p>Emergency Coordinator Parallel Actions</p> <ol style="list-style-type: none"> 1. Emergency Coordinator Parallel Actions. 2. Restart with a clean copy of this enclosure and stop the current copy of the enclosure 3. Direct an SRO to make 4. CR NRC Communicator 5. Removed specific reference to enclosures within another procedure (RP/0/A/1000/009) 6. Updated safety classification of RP/0/A/1000/017 7. ... minimum (anyone more senior than the SRO may approve). 	<p>Enhancement - moved from 4.5 to 4.4 to be in order of use</p> <ol style="list-style-type: none"> 1- Enhancement matches title of enclosure to Actions 2. Enhancement clarifies action 3. Enhancement to show command and control 4. Corrects title 5. Enhancement to prevent potential future configuration control issue. 6 Editorial correction. 7. Enhancement to more clearly define who may authorize.
17	Enclosure 4.5	<p>Emergency Coordinator Parallel Actions</p> <ol style="list-style-type: none"> 1. Emergency Coordinator Parallel Actions. 2. Restart with a clean copy of this enclosure and stop the current copy of the enclosure 3. Direct an SRO to make 4. CR NRC Communicator 5. Removed specific reference to enclosures within another procedure (RP/0/A/1000/009) 6. Updated safety classification of RP/0/A/1000/017 7. ... minimum (anyone more senior than the SRO may approve). 	<p>OSM Emergency Coordinator Turnover Sheet</p> <ul style="list-style-type: none"> • Updated safety classification of RP/0/A/1000/017 • removed log sheets as these are provided 	<p>Enhancement - moved from 4.1 to 4.5 to be in order of use.</p> <ul style="list-style-type: none"> • Editorial correction • Enhancement as log sheets are duplicates of forms provided.
18	Enclosure 4.6	Radiation Monitoring	Emergency Classification Termination Criteria	<p>Enhancement - moved from 4.2 to 4.6 to be in order of use.</p>
19	Enclosure 4.7	<p>Summary of IAAT Steps</p> <ol style="list-style-type: none"> 1 - NA 2 - Emergency Coordinator Assistant's parallel ... 	<p>Radiation Monitoring</p> <ul style="list-style-type: none"> • Updated safety classification of RP/0/A/1000/001 	<p>Enhancement - moved from 4.7 to 4.8 to be in order of use.</p> <ul style="list-style-type: none"> • Editorial correction

Attachment to 50.54q

RP/0/A/1000/002, Control Room Emergency Coordinator Procedure, Rev 001
Comparison Matrix

20	Enclosure 4.8	ERO Pager Activation By Security step 2.13 Return to...	Summary of IAAT Steps 1. Added 2.16 site assembly... 2. Enclosure 4.5 Emergency Coordinator parallel ...	Enhancement - moved from 4.8 to 4.9 to be in order of use. 1. Enhancement to ensure site assembly is initiated when appropriate. 2. Corrects title and number of enclosure.
21	Enclosure 4.9	Event Prognosis Definitions	ERO Pager Activation By Security deleted step 2.13	Enhancement - moved from 4.9 to 4.10 to be in order of use. Step was incorrect.
22	Enclosure 4.10	Reference	Event Prognosis Definitions	Enhancement - moved information from within the body of the procedure for ease of use.
23	Enclosure 4.12	NA	References	Enhancement - moved from 4.10 to 4.12 to be in order of use.