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ONS-2014-142

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November 10, 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 Procedure Revision 2014-024

Please find attached for your use and review copies of the enclosed revision along with the associated supporting documentation and 10 CFR 50.54(q) evaluation. This procedure is an Emergency Plan Implementing Procedure.

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 Preparedness Manager, at 864-873-3124.

By copy of this letter, a copy of this revision is being provided to the NRC, Region II, Atlanta, Georgia.

Sincerely,

Scott L. Batson
Vice President
Oconee Nuclear Station

Attachments:
Emergency Plan Implementing Procedure Revision
10 CFR 50.54(q) Evaluation(s)

Ax45
LRR

U. S. Nuclear Regulatory Commission

November 10, 2014

xc: w/2 copies of attachments

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

w/copy of attachments

Mr. James R. Hall, Project Manager
U. S. Nuclear Regulatory Commission
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11555 Rockville Pike
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(send via E-mail)

w/o attachments

Mr. Eddy Crowe
NRC Senior Resident Inspector
Oconee Nuclear Station

ELL
EC2ZF

October 20, 2014

OCONEE NUCLEAR STATION

SUBJECT: Emergency Plan Implementing Procedures
Volume C Revision 2014-024

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

REMOVE

Cover Sheet Rev. 2014-023

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Pages 1, 2, & 3

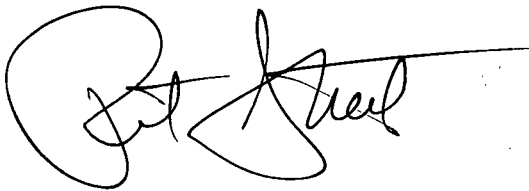
RP/0/A/1000/002 Rev 005

INSERT

Cover Sheet Rev. 2014-024

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Pages 1, 2, & 3

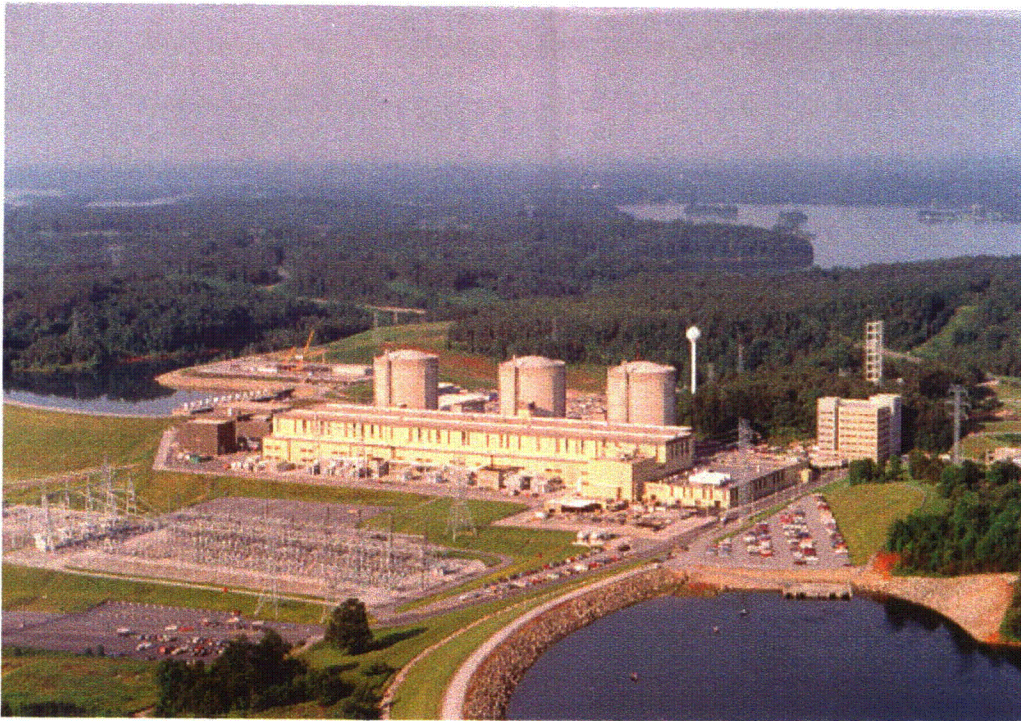
RP/0/A/1000/002 Rev 006

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

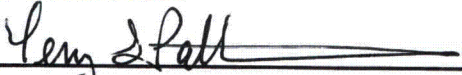
Pat Street
ONS Emergency Planning Manager



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



APPROVED:



Terry L. Patterson
Director Nuclear Org Effectiveness

10-30-14

Date Approved

**VOLUME C
REVISION 2014-024
October 2014**

VOLUME C

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Duke Energy
Oconee Nuclear Station
Control Room Emergency Coordinator Procedure

Procedure No.

RP/0/A/1000/002

Revision No.

006

Electronic Reference No.

OP009A64

PERFORMANCE

This Procedure was printed on 10/13/14 at 14:59:29 from the electronic library as:

(ISSUED) - 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: *10/13/2014*

Enclosure No.: *FULL*



Revision No.: *006*



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

NOTE:

- State and County agencies shall be notified within 15 minutes of E-plan declaration, Classification upgrades, and Protective Action Recommendations.
- For an outside line dial "9" and for long distance dial "1".

_____ 2.1 **IF** an EAL exists, Declare the appropriate Emergency Classification level.

Classification _____ (UE, Alert, SAE, GE)

Time Declared: _____

_____ 2.2 **IF** A Security event is in progress,

THEN GO TO Step 2.4.

- NOTE:**
- For an unusual event classification, or for events with **NO** EAL classifications, activation of ERO personnel is at the discretion of the SM.
 - Qualified Individual can be any person qualified to use ERONS.
 - If a "bridges" or "alternate TSC/OSC" page needs to be sent out, it will be done during the follow-up page.

_____ 2.3 **IF** ERO has **NOT** yet been activated **AND** ERO activation is needed, perform the following:

2.3.1 Circle the applicable initial notification code below.

EAL classification	Notification Codes (see Enclosure 4.11 for descriptions)	
	DRILL	EMERGENCY
None		F1a
NOUE	D1a	E1a
Alert	D2a	E2a
SAE	D3a	E3a
GE	D4a	E4a

2.3.2 **IF** a qualified individual is available to notify the ERO, provide the circled notification code above to a qualified individual and direct them to begin Enclosure 4.10 (Activation of the Emergency Response Organization).

_____ 2.4 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 }

_____ 2.5 **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.

- _____ 2.6 Obtain the applicable Offsite Notification form in the control room and complete as follows:
- _____ 2.6.1 Ensure EAL # as determined by RP/0/A/1000/001 matches Line 4.
- _____ 2.6.2 Line 1 - Mark appropriate box "Drill" or "Actual Event"
- _____ 2.6.3 Line 1 - Enter Message #
- _____ 2.6.4 Line 2 - Mark Initial
- _____ 2.6.5 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.
- _____ 2.6.6 Line 7 - If Line 6 Box B or C is marked, mark Box D. Otherwise mark Box A.
- _____ 2.6.7 Line 8 - Mark "Stable" unless an upgrade or additional PARs are anticipated within an hour.
- Refer to Enclosure 4.8 (Event Prognosis Definitions)
- _____ 2.6.8 Line 10 - Military time and date of declaration (Refer to date/time in Step 2.1)

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 SM.

_____ 2.6.9 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.

_____ 2.6.10 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

_____ 2.6.11 Line 13 - If the SM has no remarks, write "None"

_____ 2.6.12 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.

_____ 2.6.13 Line 17 - SM 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.
 - 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.

_____ 2.7 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.

_____ 2.8 Ensure step 2.3.2 has been completed.

_____ 2.9 Make PA announcement regarding classification (see Enclosure 4.1).

_____ 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 4.2 (Condition A/ Condition B Response Actions) for additional protective actions.

AND After the State (SC) and Counties (Oconee and Pickens) have been notified, **ENSURE** that notification is made to the following:

- ☐ Georgia Emergency Management Agency 404-635-7000 or 7200
- ☐ National Weather Service 864-879-1085 or 800-268-7785.

NOTE: Activation of the ERO is **NOT** required for an Unusual Event Classification.

_____ 2.11 **IF** This is an Unusual Event,

AND The SM/Emergency Coordinator does **NOT** desire that any part of the ERO be activated,

THEN GO TO Step 2.15.

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 2.3. {13}
- ERONS Notification Codes are grouped by EAL. ERONS Emergency Notifications begin on page 1 of Enclosure 4.11. ERONS Drill Notifications begin on page 3 of Enclosure 4.11.
- Activation of the ERO during Condition B is done 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.
- Qualified Individual can be any person qualified to use ERONS.

_____ 2.13 Direct activation of the Emergency Response Organization (ERO) by performing the following:

2.13.1 Determine the appropriate ERONS notification code from Enclosure 4.11 (ERONS Notification Codes and Titles).

2.13.2 Provide the notification code identified above to a qualified individual and direct them to perform Enclosure 4.10 (Activation of the Emergency Response Organization). {8}

_____ 2.14 Implement Enclosure 4.4 (SM Emergency Coordinator Turnover Sheet).

NOTE: Enclosure 4.6 (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 4.6 (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 4.3 (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 4.3 (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 4.5 (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 SM 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 4.4 (SM 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 4.4 (SM 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 4.4 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 Plant Public Address Announcements
- 4.2 Condition A/ Condition B Response Actions
- 4.3 Emergency Coordinator Parallel Actions
- 4.4 SM Emergency Coordinator Turnover Sheet
- 4.5 Emergency Classification Termination Criteria
- 4.6 Radiation Monitoring
- 4.7 Summary of IAAT Steps
- 4.8 Event Prognosis Definitions
- 4.9 References
- 4.10 Activation of the Emergency Response Organization
- 4.11 ERONS Notification Codes and Titles

Enclosure 4.1
Plant Public Address Announcements

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

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.
- **IF** TSC/OSC activation is necessary AND TSC/OSC has not yet been activated
THEN Announce one of the following, as applicable:
"Activate the TSC/OSC
Activate the alternate TSC/OSC

_____ 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.
- **IF** TSC/OSC activation is necessary AND TSC/OSC has not yet been activated
THEN Announce one of the following, as applicable:
Activate the TSC/OSC
Activate the alternate TSC/OSC

1. Condition A Response - Immediate Actions

NOTE: The Hydro Group will notify the Control Room/SM 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 following after the State and Counties are notified:

- ☐ Georgia Emergency Management agency 404-635-7000 or 7200
- ☐ National Weather Service 864-879-1085 or 800-268-7785.

2. Condition A Response - Subsequent Actions

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

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

Condition A/ Condition B Response Actions Page 2 of 3

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

_____ 2.2.1 **IF** Keowee personnel are relocated to the OSC,

THEN Notify Hydro Central at 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 13).

_____ 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 4.3 (Emergency Coordinator Parallel Actions) Step 1.11.

3. Condition B Response - Immediate Actions

- _____ 3.1 **IF** Condition B at Keowee exists,
- THEN** Notify the following after the State and Counties are notified:
- ☐ Hydro Central 704-382-6836
 - ☐ Georgia Emergency Management Agency 404-635-7000 or 7200
 - ☐ National Weather Service 864-879-1085 or 800-268-7785
- _____ 3.2 **GO TO** Enclosure 4.3 (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/A/1000/003A (ERDS Operation).

NOTE: Notifications per AD-LS-ALL-0006 (Notification/Reportability Evaluation) for 10CFR50.72 require **ALL** reportable items that are met or exceeded to be reported in addition to the NRC Event Notification Worksheet and Plant Status Sheet required within 1 hour of the event declaration.

- _____ 1.5 **IAAT** Plant conditions require NRC notification under 10CFR50.72,

 THEN Direct the CR NRC Communicator to provide this notification using the guidance in OMP 1-14 (Notifications).

- _____ 1.6 **IF** The Emergency Response Organization is **NOT** needed to assist with the Unusual Event emergency activities,

AND Personnel accountability is **NOT** desired,

THEN **GO TO** Step 1.8.

_____ 1.7	<u>IAAT</u>	The SM directs that a Site Assembly be initiated,
	<u>THEN</u>	Initiate Site Assembly per RP/0/A/1000/009 (Procedure For Site Assembly).
_____ 1.8	<u>IAAT</u>	Any Area Radiation Monitor is increasing or is in ALARM,
	<u>OR</u>	Steam Line Break has occurred,
	<u>THEN</u>	Contact shift RP to dispatch onsite monitoring teams.
_____ 1.9	<u>IF</u>	This is a General Emergency,
	<u>THEN</u>	Initiate evacuation of all non-essential personnel from the site <u>after</u> personnel accountability has been reached. REFER TO RP/0/A/1000/010 (Procedure for Emergency Evacuation/Relocation of Site Personnel).
_____ 1.10	<u>IAAT</u>	If notified by the Hydro Group that Condition A Imminent or Actual Dam Failure (Keowee or Jocassee),
	<u>OR</u>	Condition B (Keowee) exists,
	<u>THEN</u>	REFER TO Enclosure 4.2 (Condition A/ Condition B Response Actions) for additional PAR and/or response actions.
_____ 1.11	<u>IAAT</u>	Major damage has occurred or is occurring,
	<u>THEN</u>	Initiate RP/0/A/1000/022 (Procedure for Major Site Damage Assessment and Repair) and/or RP/0/A/1000/029 (Fire Brigade Response - OSC).
_____ 1.12	<u>IAAT</u>	A Security Event is in progress,
	<u>THEN</u>	Verify that the 15 minute notification for the Security event has been made to the NRC.
_____ 1.13	<u>IAAT</u>	A hazardous substance has been released,
	<u>THEN</u>	Initiate RP/0/A/1000/017 (Spill Response).

{12}

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/A/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 4.3
Emergency Coordinator Parallel Actions

RP/0/A/1000/002
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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).

SM 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/A/1000/016 (MERT Activation for Medical, Confined Space and High Angle Rescue Emergency)			
RP/0/A/1000/017 (Spill Response)			
RP/0/A/1000/022 (Major Site Damage Assessment and Repair)			
RP/0/A/1000/029 (Fire Brigade Response - OSC)			
RP/0/A/1000/009 (Site Assembly)			
RP/0/A/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 _____ SM _____ Time of Turnover _____

Enclosure 4.5
Emergency Classification Termination
Criteria

RP/0/A/1000/002

Page 1 of 1

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

THEN An emergency condition may be considered resolved when:

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

Date/Time Initial

Enclosure 4.6
Radiation Monitoring

RP/0/A/1000/002
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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 4.7
Summary of IAAT Steps

RP/0/A/1000/002
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IF AT ANY TIME:

Immediate Actions

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

Subsequent Actions

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

Enclosure 4.3 (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 SM directs that a Site Assembly be initiated...
- (1.8) any Area Radiation Monitor is increasing or in ALARM, **OR** a Steam Line Break has occurred,
- (1.10) if notified by the Hydro Group that Condition A, Imminent or Actual Dam Failure (Keowee or Jocassee) **OR** Condition B (Keowee) exists...
- (1.11) major damage has occurred **OR** is occurring...
- (1.12) a Security Event is in progress...
- (1.13) a hazardous substance has been released...
- (1.14) a medical response is required...
- (1.16) plant conditions require a decision to implement 10CFR50.54(x)...

Enclosure 4.8
Event Prognosis Definitions

RP/0/A/1000/002
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The following definitions apply when determining Event Prognosis for completing line #8 on the Emergency Notification Form.

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

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

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

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

Stable: Plant conditions are neither degrading nor improving.

{10}

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

Enclosure 4.10
Activation of the Emergency Response
Organization

RP/0/A/1000/002
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1. Instructions

_____ 1.1 Obtain the notification code(s) from the SM and record below:

Notification Code: _____

_____ 1.2 **IF** a security event is **NOT** in progress **AND** security can be reached at 6002, perform the following:

_____ 1.2.1 Notify Security at extension 6002 to activate ERO.

_____ 1.2.2 Provide Security with the notification code(s) recorded in Step 1.1.

_____ 1.2.3 Inform the Emergency Coordinator that Security has been notified to activate the TSC and OSC.

_____ 1.2.4 Exit this Enclosure.

NOTE: Only one person can be signed onto EverBridge at a time. If a second person logs onto EverBridge, the first person will be logged off.

_____ 1.3 **IF** a security event is in progress **OR** security **CANNOT** be reached at extension 6002, perform the following to activate the ERO:

1.3.1 **IF AT ANY TIME** the following steps **CANNOT** be accomplished, **GO TO** step 1.4.

NOTE: Login and Password can be obtained from the Password Card in the Control Room.

1.3.2 Obtain the Login Username and Password for EverBridge.

NOTE: Everbridge can be accessed by selecting either the EverBridge icon on the desktop, selecting ERONS from the DAE, or entering "manager.everbridge.net" without the quotations into the Internet Explorer address bar.

1.3.3 From a Duke Energy computer, open the EverBridge application.

1.3.4 On the Everbridge login page, enter the username (**NOT** case sensitive) and password (case sensitive) obtained in step 1.3.2 into the corresponding fields.

1.3.5 Click the "Sign-In" button.

**Activation of the Emergency Response
Organization**

- 1.3.6 Select "Proceed" on the "Welcome" screen in order to select the proper notification message.
- 1.3.7 Select the "Notification Templates" tab.
- 1.3.8 **IF AT ANY TIME** a message is sent in error **AND** the message must be retracted, repeat steps 1.3.9 - 1.3.14 with "C1" as the notification code.

NOTE: Steps 1.3.9 - 1.3.14 can be repeated for each code that is required to be sent.

- 1.3.9 Perform one of the following to locate the proper notification:
- A. Type the "notification code" identified in step 1.1 into the search box and select "ENTER."
 - B. Select "Title" to sort Notifications alpha-numerically.
- 1.3.10 **WHEN** the proper notification has been found, select the checkbox of the desired notification number.
- 1.3.11 Select "Send".
- 1.3.12 **WHEN** the box labeled "Include the notification as part of an event?" appears, select the radio button for "No, send as individual notifications."

NOTE: Completion of the following step will cause the ERO notification to be sent.

- 1.3.13 Select "Send".

NOTE: The second verification below is done by selecting 'Active/History' in the EverBridge application, (If a rotating timer icon appears, refresh the screen) and selecting the hyperlinked title of the notification (s) initiated.

- 1.3.14 **IF** either of the following **CANNOT** be verified, notify the Emergency Coordinator and **GO TO** step 1.4.
- ☐ An ERO notification call has been received in the Control Room
 - ☐ EverBridge has names listed under 'Contacts Name' heading in the appropriate archived history.
- 1.3.15 Inform the Emergency Coordinator that ERO has been activated per ERONS.

Enclosure 4.10
Activation of the Emergency Response
Organization

RP/0/A/1000/002

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_____ 1.4 **IF** step 1.3 could **NOT** be completed successfully, perform the following to use the EverBridge Live Operator method to activate ERO:

1.4.1 **IF AT ANY TIME** the following **CANNOT** be completed, **GO TO** step 1.5.

1.4.2 Contact the EverBridge Live Operator by calling one of the following:

- 9-1-877-220-4911
- 9-1-818-230-9797

1.4.3 Note date and time of call initiation:

_____/_____
Date / Time

NOTE: It may be prudent to ask for a repeat-back of the Notification code provided to the EverBridge Live Operator to ensure the proper notification is sent.

1.4.4 Provide the following information to the EverBridge Live Operator when prompted:

Information Requested	Response
EverBridge Organization Name	"Oconee Nuclear Station"
username	"ONSactivation"
city or town of your birth	"Charlotte"
How may the Everbridge Operator help?	"I want to send a priority notification using a Mass Notification Template."
Notification Title	Provide Live Operator with <u>only</u> the code(s) of the notification to be sent. This can be obtained from step 1.1.
Is the broadcast ID desired?	"YES." Record the Broadcast ID: _____

1.4.5 Terminate phone call and record date and time of call completion:

1.4.6 **IF** ERO notification call has **NOT** been received in the Control Room, perform the following:

A. Notify the Emergency Coordinator

B. **GO TO** to step 1.5.

Enclosure 4.10
Activation of the Emergency Response
Organization

RP/0/A/1000/002

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1.4.7 Inform the Emergency Coordinator that ERO has been activated per ERONS.

_____ 1.5 **IF** ERO activation using ERONS is **NOT** successful, perform the following:

_____ 1.5.1 Notify Security to activate ERO using the Nuclear Callout System.

_____ 1.5.2 Notify the SM that ERO activation using ERONS was unsuccessful and Security has been notified to use Nuclear Callout System.

ERONS Notification Codes and Titles

1. General ERONS Notification Codes:

<u>ACTIVATION ERROR</u>		
Notification Code	Title	Description
C1	CANCEL ACTIVATION	To retract any ERONS message sent in error. This notifies the entire ERO.

2. Emergency ERONS Notification Codes:

<u>Notification of Unusual Event (NOUE) - E1</u>		
Notification Code	Title	Description
E1a	ONS Emergency - ERO Activation - NOUE	Activates the TSC, OSC, and EOF.
E1f	ONS Emergency - Security Event - NOUE	Security event in progress. Activate the EOF only. TSC and OSC personnel assemble off-site.
E1g	ONS Emergency - Security Event - Post Attack - NOUE	Security event under control. Activate the TSC and OSC.
E1h	ONS Emergency - Bridges - NOUE	Bridges may be affected. Activate the TSC, OSC, and EOF.
E1i	ONS Emergency - TSC/OSC not available - NOUE	TSC/OSC is <u>NOT</u> available. Activate the alternate TSC/OSC.

<u>ALERT - E2</u>		
Notification Code	Title	Description
E2a	ONS Emergency - ERO Activation - ALERT	Activates the TSC, OSC, and EOF.
E2f	ONS Emergency - Security Event - ALERT	Security event in progress. Activate the EOF only. TSC and OSC personnel assemble off-site.
E2g	ONS Emergency - Security Event - Post Attack - ALERT	Security event under control. Activate the TSC and OSC.
E2h	ONS Emergency - Bridges - ALERT	Bridges may be affected. Activate the TSC, OSC, and EOF.
E2i	ONS Emergency - TSC/OSC not available - ALERT	TSC/OSC is <u>NOT</u> available. Activate the alternate TSC/OSC.

ERONS Notification Codes and Titles

<u>Site Area Emergency (SAE) - E3</u>		
Notification Code	Title	Description
E3a	ONS Emergency - ERO Activation - SAE	Activates the TSC, OSC, and EOF.
E3f	ONS Emergency - Security Event - SAE	Security event in progress. Activate the EOF only. TSC and OSC personnel assemble off-site.
E3g	ONS Emergency - Security Event - Post Attack - SAE	Security event under control. Activate the TSC and OSC.
E3h	ONS Emergency - Bridges - SAE	Bridges may be affected. Activate the TSC, OSC, and EOF.
E3i	ONS Emergency - TSC/OSC not available - SAE	TSC/OSC is <u>NOT</u> available. Activate the alternate TSC/OSC.

<u>General Emergency (GE) - E4</u>		
Notification Code	Title	Description
E4a	ONS Emergency - ERO Activation - GE	Activates the TSC, OSC, and EOF.
E4f	ONS Emergency - Security Event - GE	Security event in progress. Activate the EOF only. TSC and OSC personnel assemble off-site.
E4g	ONS Emergency - Security Event - Post Attack - GE	Security event under control. Activate the TSC and OSC.
E4h	ONS Emergency - Bridges - GE	Bridges may be affected. Activate the TSC, OSC, and EOF.
E4i	ONS Emergency - TSC/OSC unavailable - GE	TSC/OSC is <u>NOT</u> available. Activate the alternate TSC/OSC.

<u>EVENT TERMINATION - E6</u>		
Notification Code	Title	Description
E6a	ONS Emergency - Event Termination	Conditions have improved. the Emergency Response Organization may stand-down. <u>NO</u> further response required.

<u>DISCRETIONARY FACILITY ACTIVATION - F1</u>		
Notification Code	Title	Description
F1a	ONS Facility Activation	Activate the TSC and OSC as a precautionary measure when no EAL applies.

ERONS Notification Codes and Titles

3. Drill ERONS Notifications:

<u>Notification of Unusual Event (NOUE) DRILL - D1</u>		
Notification Code	Title	Description
D1a	ONS Drill - ERO Activation- NOUE	Activates the TSC, OSC, and EOF.
D1f	ONS Drill - Security Event - NOUE	Security event in progress. Activate the EOF only. TSC and OSC personnel assemble off-site.
D1g	ONS Drill - Security Event - Post Attack - NOUE	Security event under control. Activate the TSC and OSC.
D1h	ONS Drill - Bridges - NOUE	Bridges may be affected. Activate the TSC, OSC, and EOF.
D1i	ONS Drill - TSC/OSC unavailable - NOUE	Oconee TSC/OSC is <u>NOT</u> available. Use the ONS Alternate TSC/OSC.

<u>ALERT DRILL - D2</u>		
Notification Code	Title	Description
D2a	ONS Drill - ERO Activation- ALERT	Activates the TSC, OSC, and EOF.
D2f	ONS Drill - Security Event - ALERT	Security event in progress. Activate the EOF only. TSC and OSC personnel assemble off-site.
D2g	ONS Drill - Security Event - Post Attack - ALERT	Security event under control. Activate the TSC and OSC.
D2h	ONS Drill - Bridges - ALERT	Bridges may be affected. Activate the TSC, OSC, and EOF.
D2i	ONS Drill - TSC/OSC unavailable - ALERT	Oconee TSC/OSC is <u>NOT</u> available. Use the ONS Alternate TSC/OSC.

<u>Site Area Emergency (SAE) DRILL - D3</u>		
Notification Code	Title	Description
D3a	ONS Drill - ERO Activation- SAE	Activates the TSC, OSC, and EOF.
D3f	ONS Drill - Security Event - SAE	Security event in progress. Activate the EOF only. TSC and OSC personnel assemble off-site.
D3g	ONS Drill - Security Event - Post Attack - SAE	Security event terminated. Activate the TSC and OSC.
D3h	ONS Drill - Bridges - SAE	Bridges may be affected. Activate the TSC, OSC, and EOF.
D3i	ONS Drill - TSC/OSC unavailable - SAE	Oconee TSC/OSC is <u>NOT</u> available. Use the ONS Alternate TSC/OSC.

ERONS Notification Codes and Titles

General Emergency (GE) DRILL - D4

Notification Code	Title	Description
D4a	ONS Drill - ERO Activation- GE	Activates the TSC, OSC, and EOF.
D4f	ONS Drill - Security Event - GE	Security event in progress. Activate the EOF only. TSC and OSC personnel assemble off-site.
D4g	ONS Drill - Security Event - Post Attack - GE	Security event under control. Activate the TSC and OSC.
D4h	ONS Drill - Bridges - GE	Bridges may be affected. Activate the TSC, OSC, and EOF.
D4i	ONS Drill - TSC/OSC unavailable - GE	Oconee TSC/OSC is <u>NOT</u> available. Use the ONS Alternate TSC/OSC.

STAFF AUGMENTATION DRILL- D6

Notification Code	Title	Description
D6a	ONS Augmentation Drill - TSC & OSC Only	Activate the TSC and OSC.
D6b	ONS Augmentation Drill - All Facilities	Activates the TSC, OSC and EOF.

EVENT TERMINATION - D7

Notification Code	Title	Description
D7a	ONS Drill Termination	Conditions have improved. the Emergency Response Organization may stand-down. <u>NO</u> further response required.

Duke Energy PROCEDURE PROCESS RECORD

(1) ID No. RP/0/A/1000/002Revision No. 006**PREPARATION**

- (2) Station OCONEE NUCLEAR STATION
- (3) Procedure Title Control Room Emergency Coordinator Procedure
- (4) Prepared By* John Kaminski (Signature) [Signature] Date 9/29/2014
- (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* Daniel H. C... (QR)(KI) Date 10/2/14
 Cross-Disciplinary Review By* P. NIX (QR)(KI) NA 10-2-14
 Reactivity Mgmt Review By* [Signature] (QR) NA 10/2/14
 Mgmt Involvement Review By* [Signature] (Ops. Supt.) NA 10/2/14
- (7) Additional Reviews
 Reviewed By* _____ Date _____
 Reviewed By* _____ Date _____
- (8) Approved By* Barbara M. Stagg (Signature) [Signature] Date 10/9/14

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)
see attached compliance matrix

Revision/Change Package Fill-In Form

Rev. 04/23/2012

The purpose of this fill-in form is to provide a location to type in information you want to appear on the various forms needed for Major/Minor Procedure Revisions, and Major/Minor Procedure Changes. After you type in information on this form, it will be electronically transferred to the appropriate locations in the attached forms when you perform Step 3 below.

Step 1- press [F12] (Save As) then save this form using standard file name convention in appropriate LAN storage location.

Step 2- type in basic information in the blanks below:

Note: place cursor in center of brackets before typing.

1. ID No.: RP/0/A/1000/002
2. Revision No.: 006 _
3. Change No.: __ **Note:** if this package is for a change, replace hyphen with a letter.
4. Procedure Title: Control Room Emergency Coordinator Procedure_
5. For changes only, enter procedure sections affected: 1, 2, 3, 4, and Enclosures
6. Prepared By: John Kaminski
7. Preparation Date: 9/29/2014
8. PCR Numbers Included in Revision: ONS- 2014-004910

Step 3- go to Print Preview to update this information in all the attached documents.

Step 4- page down to affected pages and enter any additional information needed.

Step 5- when all information is entered, print package and review for correctness.

Procedure Title: Control Room Emergency Coordinator Procedure

SUMMARY OF CHANGES: (DESCRIPTION AND REASON)

General Changes

Changes made to eliminate reference to old ERO pager system and to implement the ERONS capability.
See attached compliance matrix

PCR Numbers Incorporated

ONS- 2014-004910

Enclosure

APPENDIX C. APPLICABILITY DETERMINATION (Rev. 10)

Page 1 of 2

PART I - ACTIVITY DESCRIPTION**DUKE ENERGY CAROLINAS, LLC SITE****UNIT(S)**☒ Oconee☐ McGuire☐ Catawba☒ Unit 1☒ Unit 2☒ Unit 3

ACTIVITY TITLE/DOCUMENT/REVISION:

**CONTROL ROOM EMERGENCY COORDINATOR
PROCEDURE,****RP/0/A/1000/002 rev 006****PART II - PROCESS REVIEW****For each activity, address all of the questions below. If the answer is "YES" for any portion of the activity, apply the identified process(es) to that portion of the activity. Note: It is not unusual to have more than one process apply to a given activity.**

Will implementation of the above activity require a change to the:

- | | | | |
|--|--|---|---|
| 1. Technical Specifications (TS) or Operating License? | <input checked="" type="checkbox"/> NO | <input type="checkbox"/> YES | If YES, process as a license amendment per NSD 227. |
| 2. Quality Assurance Topical? | <input checked="" type="checkbox"/> NO | <input type="checkbox"/> YES | If YES, seek assistance from Independent Nuclear Oversight. |
| 3. Security Plans?
(See Appendix H) | <input checked="" type="checkbox"/> NO | <input type="checkbox"/> YES | If YES, process per the Nuclear Security Manual. |
| 4. Emergency Plan? | <input type="checkbox"/> NO | <input checked="" type="checkbox"/> YES | If YES, process per the Emergency Planning Functional Area Manual. |
| 5. Inservice Testing Program Plan? | <input checked="" type="checkbox"/> NO | <input type="checkbox"/> YES | If YES, process per site IST Program for ASME code compliance and related facility changes. |
| Inservice Inspection Program Plan? | <input checked="" type="checkbox"/> NO | <input type="checkbox"/> YES | If YES, process per Materials, Metallurgy and Piping Inservice Inspection FAM for ASME code compliance and related facility or procedure changes. |
| 7. Fire Protection Program Plan? | <input checked="" type="checkbox"/> NO | <input type="checkbox"/> YES | If YES, evaluate activity in accordance with NSD 320. |
| 7a -Utilize Appendix E to address Fire Protection Program Plan Impact. | | <input type="checkbox"/> | Check to confirm use of Appendix E Screening Questions. |
| 8. Regulatory Commitments? | <input checked="" type="checkbox"/> NO | <input type="checkbox"/> YES | If YES, process per NSD 214. |
| 9. Code of Federal Regulations? | <input checked="" type="checkbox"/> NO | <input type="checkbox"/> YES | If YES, contact the Regulatory Affairs group. |
| 10. Programs and manuals listed in the Administrative Section of the TS? | <input checked="" type="checkbox"/> NO | <input type="checkbox"/> YES | If YES, contact the Regulatory Affairs group. |

PART IIIa - 10 CFR 72.48 APPLICABILITY

For each activity, address the question below. If the answer to question 11 is "YES," and questions 14 and 17 are answered "NO", then process the activity per NSD 211 - 10 CFR 72.48 does apply.

11. Does the activity involve SSCs, procedures or conduct tests or experiments that support/impact the loading or transport of the canister/cask to the ISFSI, the ISFSI facility, spent fuel cask design?

☒ NO

☐ YES
PART IIIb - 10 CFR 50.59 APPLICABILITY

For each activity, address all of the questions below. If the answer to question 18 is "YES," then 10 CFR 50.59 does not apply. If the answer to questions 18 is "NO," then process the activity per NSD 209 - 10 CFR 50.59 applies.

12. Does the activity involve a procedure, governed by NSD 703 that has been excluded from the 10 CFR 50.59 process per NSD 703 and the exclusion status remains valid?

☒ NO

☐ YES

13. Does the activity involve an administrative procedure governed by NSD 100 or AD-DC-ALL-0201 that does not contain information regarding the operation and control of Structures, Systems and Components?

☒ NO

☐ YES

14. Does the activity involve a type of Engineering Change that NSD 301 excludes from the 10 CFR 50.59 and/or 10 CFR 72.48 Processes? Consult NSD 301 for assistance.

☒ NO

☐ YES

15. Does the activity involve (a) maintenance activities that restore SSCs to their as-designed condition (including activities that implement approved design changes) or (b) temporary alterations supporting maintenance that will be in effect during at-power operations for 90 days or less?

☒ NO

☐ YES

16. Does the activity involve a UFSAR modification that NSD 220 excludes from the 10 CFR 50.59 Process? Consult NSD 220 for assistance.

☒ NO

☐ YES

Does the activity involve NRC and/or Duke Energy Carolinas, LLC approved changes to the licensing basis?

☒ NO

☐ YES

18. Are ALL aspects of the activity bounded by one or more "YES" answers to questions 1 through 17, above?

☐ NO

☒ YES
PART IV - UFSAR REVIEW

19. Does the activity require a modification, deletion, or addition to the UFSAR to satisfy the UFSAR content requirements of 10 CFR 50.34 (b), 10 CFR 50.71 (e), or Regulatory Guide (RG) 1.70? Consult NSD 220 for Assistance.

☒ NO

☐ YES

IF YES, process per NSD 220.

PART V - SIGNOFF

(Print Name)

Darius A. Cerasi

(Sign)

[Signature]

DATE

9/25/14

Applicability Determination Preparer

Duke Energy
PROCEDURE CHANGE PROCESS RECORD

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

Revision No. 006 Change No. _____
Permanent/Restricted to _____

(2) Station: OCONEE NUCLEAR STATION

(3) Procedure Title: Control Room Emergency Coordinator Procedure

(4) Section(s) of Procedure Affected: 1, 2, 3, 4, and Enclosures

(5) Requires NSD 228 Applicability Determination?

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

☐ No (Procedure change with minor changes)

(6) Description of Change: *(Attach additional pages, if necessary.)*

Changes made to eliminate reference to old ERO pager system and to implement the ERONS capability. See attached compliance matrix.

(7) Reason for Change:

Implementation of fleet wide ERO activation model.

(8) Prepared By* John Kaminski (Signature) [Signature] Date 9/29/2014

(9) Reviewed By* Donna A. Casel (QR)(KI) Date 10/2/14

Cross-Disciplinary Review By* A. Nix (QR)(KI) NA one Date 10-2-14

Reactivity Mgmt. Review By* _____ (QR) NA one Date 10/2/14

Mgmt. Involvement Review By* _____ (Ops. Supt.) NA one Date 10/2/14

(10) Additional Reviews

Reviewed By* _____ Date _____

Reviewed By* _____ Date _____

(11) Approved By* Patricia M. Stiles [Signature] Date 10/9/14

* Printed Name and Signature

3.10 10CFR 50.54(q) Evaluations

Activity Description and References: RP/0/A/1000/002, Control Room Emergency Coordinator, Revision 006

BLOCK 1

Revision 006 of RP/0/A/1000/002 consists of changes resulting from a fleet wide initiative to replace the current ERO Notification System which uses pagers to notify the ERO with a new system called "Emergency Response Organization Notification System (ERONS)" which uses cellular telephones or other communication devices to notify the ERO.

The procedure revision is processed under Procedure Change Request #ONS-2014-004910.

In general, this change to RP/0/A/1000/002 consists of replacing instructions for activation of the ERO. Instructions to notify the ERO using pagers have been changed to using cellular telephones and other communication devices via a new notification system called the "Emergency Response Organization Notification System (ERONS)". This change supports a fleet wide initiative to replace the current ERO notification system at all Duke Energy Carolinas (DEC) sites with ERONS, resulting in alignment of ERO notification processes at all Duke Energy nuclear sites.

A new fleet procedure AD-EP-ALL-0301, Activation of the Emergency Response Organization Notification System (ERONS), has been developed which provides instructions for performing notifications to the ONS ERO using ERONS. The Oconee Nuclear Station (ONS) Emergency Plan and other site procedures are being revised to implement this change. Those changes are being screened / evaluated in accordance with 10 CFR 50.54(q) under separate cover.

Please see attached change matrix for Revision 006 of RP/0/A/1000/002 changes to reflect ERONS.

Activity Scope:

BLOCK 1

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

Change Type:

BLOCK 1

- ☐ The change is editorial or typographical
☒ The change is not editorial or typographical

Change Type:

BLOCK 1

- ☐ The change does conform to an activity that has prior approval
☒ The change does not conform to an activity that has prior approval

Planning Standard Impact Determination:

BLOCK 1

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

***Risk Significant Planning Standards**

- ☐ The proposed activity does not impact a Planning Standard

3.10 10CFR 50.54(q) Evaluations

Commitment Impact Determination:

☐ The activity does involve a site specific EP commitment



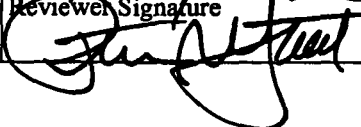
Record the commitment or commitment reference: _____

☒ The activity does not involve a site specific EP commitment

Screening Evaluation Results:

☐ The activity can be implemented without performing a §50.54(q) effectiveness evaluation

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

Preparer Name: John Kaminski	Preparer Signature 	Date: 9/29/14
Reviewer Name: Don Crowl	Preparer Signature 	Date: 9/29/14
Approver Name: Patrick Street	Reviewer Signature 	Date: 10/9/14

§50.54(q) Effectiveness Evaluation Form

Activity Description and References: RP/0/A/1000/002, Control Room Emergency Coordinator, Revision 006

Revision 006 of RP/0/A/1000/002 consists of changes resulting from a fleet wide initiative to replace the current ERO Notification System which uses pagers to notify the ERO with a new system called "Emergency Response Organization Notification System (ERONS)" which uses cellular telephones or other communication devices to notify the ERO.

The procedure revision is processed under Procedure Change Request #ONS-2014-004910.

In general, this change to RP/0/A/1000/002 consists of replacing instructions for activation of the ERO. Instructions to notify the ERO using pagers have been changed to using cellular telephones (and other communication devices) via a new notification system called the "Emergency Response Organization Notification System (ERONS)". This change supports a fleet wide initiative to replace the current ERO notification system at all Duke Energy Carolinas (DEC) sites with ERONS, resulting in alignment of ERO notification processes at all Duke Energy nuclear sites.

A new fleet procedure AD-EP-ALL-0301, Activation of the Emergency Response Organization Notification System (ERONS), has been developed which provides instructions for performing notifications to the ONS ERO using ERONS. The Oconee Nuclear Station (ONS) Emergency Plan and other site procedures are being revised to implement this change. Those changes are being screened / evaluated in accordance with 10 CFR 50.54(q) under separate cover.

Please see attached change matrix for Revision 006 of RP/0/A/1000/002 changes to reflect replacement of ERO pagers with cellular telephones (or other communications devices) for ERO notification via ERONS.

Activity Type:

- ☒ 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:

10 CFR 50.47(b)(1) states: (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.

The applicable emergency planning functions associated with 10 CFR 50.47(b)(1) state:

- Responsibility for emergency response is assigned.
- The response organization has the staff to respond and to augment staff on a continuing basis (i.e. 24/7 support) in accordance with the emergency plan.

10 CFR 50.47(b)(2) states: On-shift facility licensee responsibilities for emergency response are unambiguously defined, adequate staffing to provide initial facility accident response in key functional areas is maintained at all times, timely augmentation of response capabilities is available and the interfaces among various onsite response activities and offsite support and response activities are specified.

The applicable emergency planning functions associated with 10 CFR 50.47(b)(2) state:

- The process ensures that onshift emergency response responsibilities are staffed and assigned.
- The process for timely augmentation of onshift staff is established and maintained.

10 CFR 50.47(b)(5) states: 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.

There is no applicable emergency planning function associated with 10 CFR 50.47(b)(5) for this change.

3.10 10CFR 50.54(q) Evaluations

10 CFR 50.47(b)(6) states: Provisions exist for prompt communications among principal response organizations to emergency personnel and to the public.

The applicable emergency planning functions associated with 10 CFR 50.47(b)(6) state:

- Systems are established for prompt communication among principal emergency response organizations.
- Systems are established for prompt communication to emergency response personnel.

Licensing Basis:

This evaluation included a search of the licensing basis documents for the Oconee Nuclear Station (ONS) for references to the ERO notification system and use of pagers. The search concluded that a review of the ONS Emergency Plan was warranted.

While the ONS Emergency Plan contains several references to use of pagers for ERO notification, there are no details within the Emergency Plan regarding use of the system, other than to indicate that it is the primary system used for prompt notification to the ERO in the event of an emergency. ERONS is replacing the current method of ERO activation at ONS (which involved activation of ERO pagers) via pressing an ERO Activation Panel Test button on notification equipment with the new ERONS computer based method. The current backup methods for ERO notification at ONS, including use of the Nuclear Callout System and notification by the Emergency Planning duty person, remain unchanged.

This review concludes that changes to RP/0/A/1000/002, Control Room Emergency Coordinator, Revision 006 which reflects replacement of the ERO notification system (using pagers) with ERONS, does not affect the licensing basis of the Emergency Plan. These changes support a Duke Energy fleet-wide initiative to upgrade the ERO notification system for notifying members of the ONS ERO and are an overall enhancement to emergency preparedness. These changes support alignment of ERO notification processes at all Duke Energy nuclear plant sites. These changes meet all emergency preparedness requirements based on NRC regulations and requirements.

Compliance Evaluation and Conclusion:

Evaluation:

10 CFR 50.47(b)(1) states: (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.

The applicable emergency planning functions associated with 10 CFR 50.47(b)(1) from Reg Guide 1.219 states:

- Responsibility for emergency response is assigned.
- The response organization has the staff to respond and to augment staff on a continuing basis (i.e. 24/7 support) in accordance with the emergency plan.

The applicable supporting requirement which is described in 10 CFR 50, Appendix E.IV. A states (in part):

The organization for coping with radiological emergencies shall be described, including definition of authorities, responsibilities, and duties of individuals assigned to the licensee's emergency organization and the means for notification of such individuals in the event of an emergency. Specifically, the following shall be included:

1. A description of the normal plant operating organization.
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;

The applicable supporting requirement which is described in 10 CFR 50, Appendix E.C.1 states:

The entire spectrum of emergency conditions that involve the alerting or activating of progressively larger segments of the total emergency organization shall be described. The communication steps to be taken to alert or activate emergency personnel under each class of emergency shall be described. Emergency action levels (based not only on onsite and offsite radiation monitoring information but also on readings from a number of sensors that indicate a potential emergency, such as the pressure in containment and the response of the Emergency Core Cooling System) for notification of offsite agencies shall be described. The existence, but not the details, of a message authentication scheme shall be noted for such agencies. The emergency classes defined shall include: (1) Notification of unusual events, (2) alert, (3) site area emergency, and (4) general emergency. These classes are further discussed in NUREG-0654/FEMA-REP-1.

3.10 10CFR 50.54(q) Evaluations

The applicable informing criteria described in NUREG-0654, Section II. A states (in part):

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.

1d: Each organization shall identify a specific individual by title who shall be in charge of the emergency response.

1e: Each organization shall provide for 24-hour per day emergency response, including 24-hour per day manning of communications links.

2a (in part): Each organization shall specify the functions and responsibilities for major elements and key individuals by title, of emergency response, including the following: Command and Control, Alerting and Notification, Communications, Public Information, Accident Assessment, Public Health and Sanitation, Social Services, Fire and Rescue, Traffic Control, Emergency Medical Protective Response (including authority to request Federal assistance and to initiate other protective actions), and Radiological Exposure Control.

10 CFR 50.47(b)(2) states: On-shift facility licensee responsibilities for emergency response are unambiguously defined, adequate staffing to provide initial facility accident response in key functional areas is maintained at all times, timely augmentation of response capabilities is available and the interfaces among various onsite response activities and offsite support and response activities are specified.

The applicable emergency planning functions associated with 10 CFR 50.47(b)(2) state:

- The process ensures that onshift emergency response responsibilities are staffed and assigned.
- The process for timely augmentation of onshift staff is established and maintained.

The applicable supporting requirement which is described in 10 CFR 50, Appendix E.IV.A.C.1 states (in part): The entire spectrum of emergency conditions that involve the alerting or activating of progressively larger segments of the total emergency organization shall be described.

The applicable informing criteria described in NUREG-0654, Section II. B states (in part):

1. Each licensee shall specify the onsite emergency organization of plant staff personnel for all shifts and its relation to the responsibilities and duties of the normal shift complement.

5. Each licensee shall specify the positions or title and major tasks to be performed by the persons assigned to the functional areas of emergency activity. For emergency situations, specific assignments shall be made for all shifts and for plant staff members, both onsite and away from the site. These assignments shall cover the emergency functions in Table B-1 entitled, "Minimum Staffing Requirements for Nuclear Power Plant Emergencies." The minimum on-shift staffing levels shall be indicated in Table B-1. The licensee must be able to augment on-shift capabilities within a short period after declaration of an emergency. This capability shall be as indicated in Table B-1.

10 CFR 50.47(b)(5) states: 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.

There is no applicable emergency planning function(s) from Reg Guide 1.219 associated with 10 CFR 50.47(b)(5) for this change.

The applicable informing criteria described in NUREG-0654, Section II.E, state (in part):

1. Each organization shall establish procedures which describe mutually agreeable bases for notification of response organizations consistent with the emergency classification scheme set forth in Appendix 1. These procedures shall include means for verification of messages. The specific details of verification need not be included in the plan.

2. Each organization shall establish procedures for alerting, notifying, and mobilizing emergency response personnel.

The informing criteria number 1 is not applicable to this change and criteria 2 is continued with this change.

10 CFR 50.47(b)(6) states: Provisions exist for prompt communications among principal response organizations to emergency personnel and to the public.

The applicable emergency planning functions associated with 10 CFR 50.47(b)(6) state:

- Systems are established for prompt communication among principal emergency response organizations.
- Systems are established for prompt communication to emergency response personnel.

There is no applicable supporting requirement described in 10 CFR 50, Appendix E.

3.10 10CFR 50.54(q) Evaluations

10 CFR 50.47(b)(15) states: Radiological emergency response training is provided to those who may be called on to assist in an emergency."

The applicable emergency planning function associated with 10 CFR 50.47(b)(15) states:

- Training is provided to emergency responders.

The applicable supporting requirement which is described in 10 CFR 50, Appendix E.IV.F states (in part):

1. The program to provide for: (a) The training of employees and exercising, by periodic drills, of radiation emergency plans to ensure that employees of the licensee are familiar with their specific emergency response duties, and (b) The participation in the training and drills by other persons whose assistance may be needed in the event of a radiation emergency shall be described. This shall include a description of specialized initial training and periodic retraining programs to be provided to each of the following categories of emergency personnel: i) Directors and/or coordinators of the plant emergency organization; ii) Personnel responsible for accident assessment, including control room shift personnel; iii) Radiological monitoring teams; iv) Fire control teams (fire brigades); v) Repair and damage control teams; vi) First aid and rescue teams; vii) Medical support personnel; viii) Licensee's headquarters support personnel; ix) Security personnel. In addition, a radiological orientation training program shall be made available to local services personnel; e.g., local emergency services/Civil Defense, local law enforcement personnel, local news media persons.
2. g states "All exercises, drills, and training that provide performance opportunities to develop, maintain, or demonstrate key skills must provide for formal critiques in order to identify weak or deficient areas that need correction. Any weaknesses or deficiencies that are identified in a critique of exercises, drills, or training must be corrected.

The applicable informing criteria described in NUREG-0654, Section II.O states (in part):

1. Each organization shall assure the training of appropriate individuals.
2. The training program for members of the onsite emergency organization shall, besides classroom training, include practical drills in which each individual demonstrates ability to perform his assigned emergency function. During the practical drills, on-the-spot correction of erroneous performance shall be made and a demonstration of the proper performance offered by the instructor.
4. Each organization shall establish a training program for instructing and qualifying personnel who will implement radiological emergency response plans. The specialized initial training and periodic retraining programs (including the scope, nature and frequency) shall be provided in the following categories:
 - a. Directors or coordinators of the response organizations;
 - b. Personnel responsible for transmission of emergency information and instructions.
5. Each organization shall provide for the initial and annual retraining of personnel with emergency response capabilities.

The implementation of ERONS will continue to comply with applicable regulations and commitments by providing multiple-redundant methods of notifying Duke Energy ONS Emergency Response Organization (ERO) personnel of plant emergencies.

Compliance is maintained in the following manner:

1. The Oconee Nuclear Station Emergency Plan, Section A, Assignment of Responsibility (Organization Control) describes the manner of Emergency Response Organization (ERO) activation during all emergency classifications. The adoption of ERONS does not adversely impact this activation, because it directly contacts ERO members via diverse means (home telephone, mobile telephone, text, and email). In this respect, it is a more reliable and versatile means of activation than the activation system that contacts the ERO using only pagers.
2. Either Security or Operations can activate the ERO using ERONS. Both organizations maintain 24-hour per day manning of locations capable of deploying ERONS. ERONS is in use at several nuclear reactor sites for ERO activation and has proven to be a user-friendly and reliable method. Experience has shown that both Security and Operations personnel can quickly learn operations of ERONS with minimal training and a step by step procedure.
3. In accordance with the ONS Emergency Plan, ERONS is used to notify the ERO upon the declaration of an emergency. The purpose of this notification is to augment the on-shift staff within 75 minutes, per Emergency Plan requirements via activating the emergency response facilities. Experience with ERONS at other nuclear reactor sites shows that ERO notification can be initiated quickly and effectively after emergency declaration with

3.10 10CFR 50.54(q) Evaluations

no impairment on the timeliness of ERO activation. Similar time frames (less than 15 minutes has been achieved using ERONS). This is consistent with the current capability of the existing pager system.

4. ERONS will be the principal means of notifying the ERO of the need to respond to an emergency. In addition to the primary internet method for contacting ERO members, notification means (for the ERO) is provided with multiple backup features that allow prompt notification of the ERO regardless of internet failure or degradation. This notification uses diverse methods with which to notify the ERO including texts, telephone calls to cell phones and to home and also emails. In this respect, ERONS is an improvement over the pager notification system.

Note: ERONS is used solely to notify the ONS ERO and is not used for any off-site response notification or activation. Therefore, compatibility with off-site response organization notification systems is not an issue.

This review concludes that Revision 006 of RP/0/A/1000/002, Control Room Emergency Coordinator, which supports replacement of the ERO Notification System with a new system called "Emergency Response Organization Notification System (ERONS)" continues to comply with applicable regulations and commitments.

Conclusion:

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

Reduction in Effectiveness (RIE) Evaluation and Conclusion:

1. Evaluation:

Changes 1-4,14,26,29 were done for clarity, ease of use, and formatting with no change of intent.

Changes 5,8,9,13,16-20,23,24,30, 38-40 are associated with the new ERONS system, and deleting reference to pager panel, including the new enclosures containing the activation instructions, codes and activation of the Nuclear Callout System.

Changes 6,7,10-12,15,21,22,25,27,28,31-37, were editorial corrections, title changes, procedure renumbering.

The changes in this revision do not affect the emergency planning functions associated with 10 CFR 50.47(b)(1), because this change continues to ensure that responsibility for emergency response is assigned; and the response organization has the staff to respond and to augment staff on a continuing basis (i.e.,24/7 support) in accordance with the emergency plan. The change provides for the instructions to use the ERONS system. While activating the system requires incrementally more time, the fact that the system provides for a more reliable and robust means for notifying the ERO via texts, telephone messages, voice messaging and emails, once activated, as well as the ability to retain those messages until acknowledged, more than adequately compensates for the increased time to activate the system. The use and operation of the system is described under separate 50.54q evaluation. These changes do not affect the applicable supporting requirements which are described in 10 CFR 50, Appendix E.IV.A and E.C.1 and continue to meet informing criteria described in NUREG-0654, Section II.A (1.d; 1.e; and 2.a (in part)).

The changes in this revision do not negatively affect the emergency planning functions associated with 10 CFR 50.47(b)(2), because these changes continue to provide for the steps necessary to activate the ERO notification system. The process for timely augmentation of on shift staff by ERO notification and activation is maintained through training of those personnel assigned to activate the system in accordance with the steps provided in this implementing procedure. ERONS uses pre-established event-specific messages (identified in this procedure) designed to activate the necessary level of ERO response. The use of these messages simplify operator actions and minimize error traps. These changes do not affect the applicable supporting requirements which are described in 10 CFR 50, Appendix E.IV.A.C.1 and continue to meet informing criteria described in NUREG-0654, Section II.B (1 and 5).

The changes in this revision do not affect 10 CFR 50.47(b)(5), because these changes continue to ensure capability for notification of emergency personnel by all organizations. These changes continue to meet the intent of informing criteria described in NUREG-0654, Section II.F.1(a-d).

The changes in this revision do not affect the emergency planning functions associated with 10 CFR 50.47(b)(6), because the changes continue to ensure that systems are established for prompt communication among principal emergency response organizations and to emergency response personnel. Testing with ERONS shows that it can contact several hundred individuals on multiple devices almost simultaneously. This capability is a significant improvement over the current activation system that is limited solely to pagers. The use of multiple devices provides for a more reliable and robust means to notify the ERO.

3.10 10CFR 50.54(q) Evaluations

Any minor changes to the time it takes to activate the system are more than compensated for by the improved reliability of that notification. Additionally, by adding the instructions for using the backup means of notification (Nuclear Callout System) enhances the capability to notify the ERO. Prior to this revision, only select personnel had access to this information.

The changes described in this revision do not affect the emergency planning function associated with 10 CFR 50.47(b)(15). However they do support this criteria, because the changes made to RP/0/A/1000/002, will continue to provide for and ensure that training provided to emergency responders, including ERO personnel responsible for activation of ERONS is straight forward, and easy to understand. These changes do not affect the applicable supporting requirement described in 10 CFR 50, Appendix E.IV.F and continue to meet the intent of informing criteria described in NUREG-0654, Section II.O (1, 2, 4, and 5).

The changes described in Revision 006 of RP/0/A/1000/002, Control Room Emergency Coordinator, provide additional assurance that the ERO has the ability and capability to:

- respond to an emergency in a timely manner;
- perform functions in a timely manner;
- effectively identify and take measures to ensure protection of the public health and safety; and
- effectively use response equipment and emergency response procedures.

RP/0/A/1000/002 is an emergency plan implementing procedure that provides instructions for the Control Room Emergency Coordinator for notification of the ERO in response to a classified emergency at ONS. Effective use of this procedure helps ensure emergency response capabilities described in the ONS Emergency Plan are adequately maintained and demonstrated. The changes enhance ERO readiness to support a classified emergency, by providing enhanced means of notification through diverse methods thus enhancing the reliability of the notification, thereby resulting in an improved capability to ensure health and safety of plant personnel and the general public. These changes continue to meet NRC requirements, as described in 10 CFR 50.47(b) and 10 CFR 50, Appendix E.

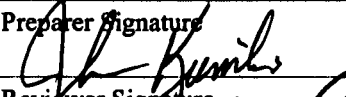
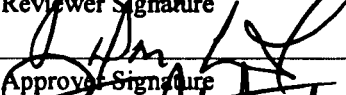

These changes are considered an overall improvement to the ONS Emergency Preparedness Program.

Conclusion:

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

Effectiveness Evaluation Results

- ☒ 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: 9/25/14
Reviewer Name: Don Crowl	Reviewer Signature 	Date: 9/29/14
Approver Name: Pat Street	Approver Signature 	Date: 10/9/14

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Change #	Page #	Current	Proposed	Reason
1.	Section 2 Immediate Actions Page 2 of 10	2.1 IF No EAL exists, AND ERO activation is desired, THEN GO TO Enclosure 4.1 (ERO Pager Activation).	deleted	Moved the conditional to note prior to step 2.3.
2.	Section 2 NOTE Bullet 2 Page 2 of 10	For an outside line dial "9" and for long distance dial "1".	For an outside line, precede the phone number by dialing "9". Follow the "9" with a 1" for long distance calls.	Rewording for clarity
3.	Section 2 2.2 Page 2 of 10	2.2	2.1	2.2 renumbered to 2.1- editorial
4.	Section 2 2.2 Page 2 of 10	addition of a condition,	added IF an EAL exists,... as a new step 2.1	allows the step to be N/A-ed if NO EAL exists, clarity of use
5.	Section 2 new 2.2 page 2 of 10		2.2 IF A Security event is in progress	takes into account security's inability to perform ERONS
6.	Section 2 step 2.3 Page 3 of 10	none	2.3 IF ERO has NOT yet been activated AND ERO activation is needed, perform the following: 2.3.1 Circle the applicable initial notification code below....	SM must determine ERONS code prior to security or operations activating ERO
7.	section 2 step 2.4 NOTE bullet 1 page 3 of 10	OSM	SM	Editorial - title change for shift manager
8.	section 2 step 2.4 NOTE bullet 2	none	Activation of ERO may be desired even if NO EAL exists	formatting - from previous step 2.1.

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Change #	Page #	Current	Proposed	Reason
9.	Section 2 2.4 Page 2 of 10	2.4 IF assistance from ERO personnel is desired/ required: THEN activate ERO pagers from the ERO Pager Activation Panel: For an EMERGENCY press "Test" button, wait 10 seconds, then press button 1 For a DRILL press "Test" button, wait 10 seconds, then press button 3 Make Plant Public Address System announcement to activate TSC and OSC.	2.4 Direct Control Room Offsite Communicator(s) to perform the following...	pager panel has been replaced with ERONS, Enclosure 4.10 was created due to change in primary responsible organization for ERO activation and to provide guidance on ERONS. Deleted prior actions
10.	Section 2 step 2.5 thru 2.9	steps 2.5 thru 2.9	renumbered to 2.4 thru 2.8	as a result of inputting the ERONS system
11.	section 2 note prior to step 2.7.9 2nd bullet page 3 of 10	OSM	renumbered step to 2.6.9 SM	editorial - title change for shift manager
12.	section 2 2.7.11, step 2.7.13 page 5 of 10	OSM	SM	editorial - title change for shift manager
13.	section 2 Note before step 2.8 page 6 of 10	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.	combined into one note with other notes before 2.7	editorial - format only
14.	Section 2 step 2.8 page 67 of 10	Make a PA...	Ensure step 2.3.2 has been completed	Ensure that the ERONS notification has been initiated

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Change #	Page #	Current	Proposed	Reason
15.	section 2 step 2.10 page 5 of 10	<ul style="list-style-type: none"> enclosure 4.2 	enclosure 4.1	Enclosures 4.1 (ERO pager activation) and Enclosure 4.9 (ERO pager activation by security) were deleted due to pager system being replaced by ERONS, subsequent enclosures are renumbered.
16.	section 2 step 2.10 page 6 of 10	<p>. ENSURE that notification is made to the following:</p> <ul style="list-style-type: none"> <input type="checkbox"/> Georgia Emergency Management Agency 404-635-7000 or 7200 <input type="checkbox"/> National Weather Service 864-879-1085 or 800-268-7785. 	<p>2.9, (Changed National Weather Service number from a 200 # to a 800# to match rest of procedure) and statement reworded to: after the State (SC) and Counties (Oconee and Pickens) have been notified, notification is made to the following:</p> <ul style="list-style-type: none"> <input type="checkbox"/> Georgia Emergency Management Agency: 404-635-7000 or 7200 <input type="checkbox"/> The National Weather Service: 864 879 1085 or 800-268-7785 	reword for clarity and ease of use
17.	section 2 step 2.12 page 7 of 10	The OSM/Emergency Coordinator does NOT desire that the EOF and/or TSC be activated,	now step 2.10 The SM/Emergency Coordinator does NOT desire that any part of the ERO be activated,	editorial - title change for shift manager, clarity and ease of use

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Change #	Page #	Current	Proposed	Reason
18.	section 2. Note before 2.13	na	NOTE: · This step is required in addition to action taken in step 2.3. {13} · ERONS Notification Codes are grouped by EAL. ERONS Emergency Notifications begin on page 1 of Enclosure 4.11. ERONS Drill Notifications begin on page 3 of Enclosure 4.11. · Qualified Individual can be any person qualified to use ERONS	Provides note of where ERONS codes are located. Defines qualified individual for clarity.
19.	section 2 step 2.14 page 7 of 10	Direct activation of the Emergency Response Organization (ERO) by performing Enclosure 4.1 (ERO Pager Activation).	Direct activation of the Emergency Response Organization (ERO) by performing the following: 2.12.1 Determine the appropriate ERONS notification code from Enclosure 4.11 (ERONS Notification Codes and Titles). 2.12.2 Provide the notification code identified above to a qualified individual and direct them to perform Enclosure 4.10 (Activation of the Emergency Response Organization).	Enclosures 4.1 (ERO pager activation) and Enclosure 4.9 (ERO pager activation by security) were deleted and replaced by enclosure 4.10, ERONS activation
20.	section 2 step 2.14	4.5 (OSM Emergency Coordinator Turnover Sheet).	Enclosure 4.4 (SM Emergency Coordinator Turnover Sheet)	Enclosures 4.1 (ERO pager activation) and Enclosure 4.9 (ERO pager activation by security) were deleted due to pager system being replaced by ERONS, subsequent enclosures are renumbered.
21.	section 2 NOTE step 2.15 and step 2.15 page 8 of 10	enclosure 4.7 (radiation monitoring)	Enclosure 4.6 (Radiation Monitoring)	Enclosures 4.1 (ERO pager activation) and Enclosure 4.9 (ERO pager activation by security) were deleted due to

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Change #	Page #	Current	Proposed	Reason
				being replaced by ERONS, subsequent enclosures are renumbered.
22.	section 2 step 2.17 page 8 of 10	enclosure 4.4 (emergency coordinator parallel actions)	enclosure 4.3 (emergency coordinator parallel actions)	Enclosures 4.1 (ERO pager activation) and Enclosure 4.9 (ERO pager activation by security) were deleted due to pager system being replaced by ERONS, subsequent enclosures are renumbered.
23.	section 3 step 3.1 page 8 of 10	enclosure 4.6 (Emergency Classification Termination Criteria)	enclosure 4.5 (Emergency Classification Termination Criteria)	Enclosures 4.1 (ERO pager activation) and Enclosure 4.9 (ERO pager activation by security) were deleted due to pager system being replaced by ERONS, subsequent enclosures are renumbered.

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Change #	Page #	Current	Proposed	Reason
24.	section 3 step 3.2 and 3.2.1 page 9 of 10	OSM Enclosure 4.5 (OSM Emergency Coordinator Turnover Sheet)	SM Enclosure 4.4 (SM Emergency Coordinator Turnover Sheet)	editorial - title change for shift manager Enclosures 4.1 (ERO pager activation) and Enclosure 4.9 (ERO pager activation by security) were deleted due to pager system being replaced by ERONS, subsequent enclosures are renumbered.
25.	section 3 step 3.2.2 page 10 of 10	when control room Emergency Coordinator verification of Notification turnover information from EOF director is complete and the EOF is activated...	WHEN and AND were bolded, underlined and capitalized per procedure writer's manual	editorial - format change to adhere to procedure writer's manual
26.	section 4 page 10 of 10	Enclosure 4.1, Enclosure 4.9	Deleted. added enclosure 4.10 and 4.11,	Deleted enclosures due to Pager system replaced with ERONS ERO activation notifications enclosure added (4.10) ERONS codes added (4.11)
27.	enclosure 4.1	Enclosure 4.1 ERO activation by Pager	Replaced by previous Enclosure 4.2, PA Announcement Added for a drill and for an emergency: IF TSC/OSC activation is necessary AND TSC/OSC has not yet been activated THEN Announce the following, as applicable: Activate the TSC/OSC Activate the alternate TSC/OSC	paggers system replaced with ERONS, guidance in new enclosure 4.10. Added clarity to announcement for activating the TSC/OSC

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Change #	Page #	Current	Proposed	Reason
28.	enclosure 4.2 (was 4.3) note before step 1.1	OSM	SM	editorial - Shift manager title change
29.	Enclosure 4.2 (was 4.3) step 1.2	THEN Notify the Georgia Emergency Management agency 404-635-7000 or 7200 and National Weather Service 864-879-1085 or 800-268- 7785 after the State and Counties are notified.	Step 1.2 THEN statement reworded to: THEN after the State (SC) and Counties (Oconee and Pickens) have been notified, Notify the following: <input type="checkbox"/> Georgia Emergency Management Agency: 404-635- 7000 or 7200 <input type="checkbox"/> The National Weather Service: 864 879 1085 or 800- 268-7785.	clarity and ease of use
30.	enclosure 4.2 (was 4.3) step 2.3	page 6	page 13	editorial - correction
31.	enclosure 4.2 (was 4.3) step 2.8	Enclosure 4.4	Enclosure 4.3	renumbering
32.	enclosure 4.2 (was 4.3) step 3.1	Notify Hydro Central 704-382- 6836 and the Georgia Emergency Management Agency 404-635- 7000 or 7200 and National Weather Service 864-879-1085 or 800-268- 7785 after the State and Counties are notified.	Notify the following after the State and Counties are notified: • Hydro Central 704-382- 6836 • Georgia Emergency Management Agency 404-635- 7000 or 7200 • National Weather Service 864-879-1085 or 800-268-7785	clarity and ease of use

Attachment to 50.54q

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Change #	Page #	Current	Proposed	Reason
40.	enclosure 4.7 (was 4.8)	enclosure 4.4 step 1.17	enclosure 4.3 step 1.16	renumbering enclosures reference corrected to appropriate step.
41.	enclosure 4.10 -new		(generated to provide guidance to activate ERO) ALL NEW	new guidance on ERO activation
42.	enclosure 4.11 -new		(generated to provide ERONS code for SM to determine notifications to be sent out) ALL NEW	new ERO activation process