Copy of Emergency Plan Implementing Procedures

Duke Energy Standard Procedure for CNS, MNS & ONS **Standard Procedure For Corporate Communications Response To The Emergency Operations Facility (Applies to Catawba/McGuire/Oconee)** **Reference Use**	Procedure No. **SR/0/A/2000/001** Revision No. **001** Electronic Reference No. **SHR00066**

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Standard Procedure For Corporate Communications Response To The Emergency Operations Facility

1. Purpose

Provides responsibilities and actions for corporate communications emergency response organization. This procedure applies to events that require activation of the common EOF to support events at Catawba, McGuire, and/or Oconee Nuclear Stations.

2. Definitions

2.1 Emergency Release: An unplanned, quantifiable radiological release to the environment during an emergency event. The release does **NOT** have to be related to the declared emergency. {AD-EP-ALL-0002} Refer to procedure SH/0/B/2005/001, Emergency Response Offsite Dose Projections, for specific indications of an emergency release.

2.2 Degrading: Plant conditions involve at least **ONE** of the following:

Plant parameters (e.g., 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 (e.g., 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.

2.3 Improving: Plant conditions involve at least **ONE** of the following:

Plant parameters (e.g., 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 (e.g., wind, ice/snow, ground tremors hazardous/toxic/radioactive material leak, fire, security events) 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.

2.4 Stable: Plant conditions are neither degrading nor improving.

Standard Procedure For Corporate Communications Response To The Emergency Operations Facility

3. Procedure

NOTES:
- This procedure and the position specific enclosures are **NOT** intended to be followed in a serial step-by-step sequence.
- Instructions and guidance steps are to be implemented as applicable for the specific needs of the event.
- Checkboxes at left of steps in the enclosures are for procedure place keeping (☑).

3.1 Establish EOF corporate communications emergency response:

3.1.1 **WHEN** on-site media center has been relocated to Charlotte/Issaqueena Trail media center,

OR

IF needed to support news conferences in the Charlotte media center, provide News Manager and Public Spokesperson.

3.1.2 **WHEN** EOF activated, provide Technical Liaison and Public Information Coordinator.

3.2 Perform the applicable actions for the event using instructions and guidance in the following enclosures:

Position Title	Enclosure
News Manager	6.1 News Manager Activation Checklist
Public Spokesperson	6.2 Public Spokesperson Activation Checklist
Public Information Coordinator	6.3 Public Information Coordinator Activation Checklist
Technical Liaison	6.4 Technical Liaison Activation Checklist

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4. References

4.1 Catawba Nuclear Station Emergency Plan

4.2 McGuire Nuclear Station Emergency Plan

4.3 Oconee Nuclear Station Emergency Plan

5. Records

5.1 All logs, forms and records completed as the result of implementing this procedure during an actual declared event **SHALL** be retained as permanent plant records. Nuclear Generation Record Retention Rule Number 421734, "Procedures-Technical Completed."

5.2 All checklists, logs and forms completed as the result of implementing this procedure **SHALL** be collected at the end of the event and provided to the site Emergency Preparedness Manager.

6. Enclosures

6.1 News Manager Activation Checklist

6.2 Public Spokesperson Activation Checklist

6.3 Public Information Coordinator Activation Checklist

6.4 Technical Liaison Activation Checklist

1. News Manager Activation Checklist

☐ 1.1 Sign in on corporate communications EOF staffing board.

☐ 1.2 Don position badge (located in top drawer of corporate communications' file cabinet).

☐ 1.3 Coordinate collection of information with Technical Liaison.

☐ 1.4 Prepare Public Spokesperson for news conferences:

- Review news conference form (located in corporate communications' file cabinet).
- Verify technical information (logs) and updates have been provided by the Technical Liaison.
- Provide copies of all news releases/bulleted updates.
- Review Guidelines for Developing Nuclear Talking Points.
- Develop messages and talking points based on current conditions and issues/rumors which need to be addressed.
- IF injuries/fatalities are involved, review corporate guideline "Responding to Serious Injuries or Fatalities" (located on the Joint Information Center drive, \\charf01\ccr_jic\ procedures-guidelines folder) or on the EP Planning and Procedures SharePoint (https:nuc.duke-energy.com/sites/eppp/default.aspx) with Public Spokesperson PRIOR to news conferences/briefings.
- Refer to prepared initial event messages located in "Nuclear Messages" folder in Nuclear folder on the Joint Information Center drive to quickly address media after event classification/upgrade.

☐ 1.5 Provide Spokesperson's talking points/message block to Public Information Coordinator and the Public Information Manager or Media Coordinator in the Joint Information Center PRIOR to news conferences/briefings to allow this information to be incorporated into news releases/updates.

☐ 1.6 (McGuire & Catawba only) Contact Public Information Manager:

- Determine time for pre-news conference briefing with state/county/federal Public Information Officers (PIOs).
- Determine time for news conference.
- Determine visual aids needed for news conference.
- Identify issues and rumors from media, customers, and social media to be addressed.

NOTE: (Oconee only) The News Manager in the Oconee Joint Information Center must coordinate with the Public Information Manager in the Charlotte Joint Information Center to plan for news conferences at the Issaqueena Trail media center. **IF** the Charlotte media center will be opened, the Charlotte News Manager should be involved in these discussions.

NOTE:
- During smaller or informal news briefings, the Public Spokesperson should speak from the podium in the media center to allow videotaping and recording.
- **IF** conducting a phone interview, the use of a conference phone or phone with a second line will allow the news manager to listen in.

☐ 1.7 Escort and assist Public Spokesperson during all news briefings, news conferences and interviews.

☐ 1.8 Prepare for news conferences with state and county Public Information Officers (PIOs):

- Verify status of rumors and messages with Public Information Manager.
- Determine appropriate person/agency to address the rumors during the news conference.
- Conduct pre-conference briefing with state and county PIOs.
- Complete news conference agenda form (located in corporate communications' file cabinet) during the pre-news conference briefing.
- Review appropriate station slide deck in the nuclear visuals folder on the Joint Information Center drive (\\charf01\ccr_jic) or EP Planning and Procedures SharePoint and select visuals for news conference.

NOTE: Suggested guidelines are provided on the news conference agenda form for opening and closing each session.

☐ 1.9 Prepare for news conference:

- Ensure all people at speakers' table have a name card or title card.
- Ensure all people at speakers' table have a seat.
  - **IF** needed, obtain additional seats.
- Ensure PIO spokespersons' cell phones/pagers are silenced.
- Ensure a Media Liaison in the media center is on JIC/EOF conference bridge (2-8080 or 9-1-866-385-2663, conferee code (b)(6)) to inform you of major changes in plant status or classification level.

☐ 1.10 Perform news conference moderator/facilitator function by using information on news conference agenda form.

NOTE:	Do **NOT** share specific upgrade information unless you are certain state and county agencies have been notified.

☐ 1.11 **IF AT ANY TIME** a change in emergency classification occurs while a news conference is being held, stop the news conference using words shown on the agenda form.

☐ 1.12 Contact NRC representatives in EOF to update them on communication activities.

☐ 1.13 Provide information in EOF Briefings concerning status of news releases and press conferences, rumors being addressed, an internal and external notifications made. Refer to SR/0/A/2000/003, Activation of the Emergency Operations Facility, Enclosure 6.24, EOF Briefing Guideline.

☐ 1.14 Document key decisions, calls, and contacts using EOF Position Log sheets or notepad (located in corporate communications' file cabinet).

☐ 1.15 Complete turnover sheet for next shift and conduct turnover by reviewing current status, outstanding issues, items for follow up, etc.

☐ 1.16 Verify all checklists and information sheets have been properly completed/signed and leave paperwork for the Corporate Communications Emergency Communications Planner.

2. Sign Off

Completed By: _____ Date: _____

1. Public Spokesperson Activation Checklist

☐ 1.1 Sign in on corporate communications EOF staffing board.

☐ 1.2 Don position badge (located in top drawer of corporate communications' file cabinet).

☐ 1.3 Contact key support personnel:

1.3.1 News Manager

1.3.2 Technical Liaison

1.3.3 Public Information Coordinator

NOTE: The Technical Liaison can assist in obtaining information as needed.

☐ 1.4 Review TSC/EOF Facility Log, news releases and information appropriate to event.

☐ 1.5 Request Technical Liaison make you aware of any significant change in plant status.

NOTE: The Public Spokesperson is responsible for approving news releases/updates/messages for all locations/events. If the Spokesperson is not available, the EOF Director/Assistant EOF Director will approve them. These roles are responsible for verifying accurate information is released whether their facility is operational or activated. News releases need to be reviewed promptly to support timely notification to the public.

☐ 1.6 Review and approve news releases/bulleted updates.

☐ 1.7 Maintain contact with Public Spokesperson at visitor's center or ONS Joint Information Center (JIC) (if applicable) to obtain information provided to media from the plant.

☐ 1.8 **IF** other Duke Energy nuclear units are affected, ensure appropriate information has been coordinated and incorporated into your information and similar messages are being shared by Spokespersons at other affected locations.

☐ 1.9 Prepare for news conference:

1.9.1 Review all news releases/bulleted updates.

1.9.2 Review current copies of EOF log sheets/information.

1.9.3 Review all documented escalated rumor information (from media, customer service center, social media, etc.) about plant status and misinformation revealed by media queries and prepare to address these issues in pre-conference briefings.

1.9.4 Request News Manager arrange for visual aids (if appropriate) for news conference to assist the public in understanding plant operations.

NOTE:

- Do **NOT** speculate during the news conference. Information should relate to plant status and plant recovery.
- Do **NOT** discuss public protective actions and state/county response.
- Do **NOT** provide information related to the location of off-site assembly points.
- Do **NOT** make reference to projected dose or rad data from the Emergency Notification Form during a news conference. Any reference to dose should be based on actual dose at the site boundary, and **MUST** be quantified. A comparison or number **MUST** be provided.

1.9.5 Consult with Public Information Manager in JIC to obtain most current information for rumors, status of news releases, etc.

1.9.6 Provide brief update to state and county PIOs at pre-news conference briefing.

☐ 1.10 **IF** requested, brief key internal and external stakeholders:

- Duke Energy Board of Directors
- Governors of North Carolina and/or South Carolina
- Enterprise Crisis Operations Center

☐ 1.11 Document key decisions, calls, and contacts using EOF Position Log Sheets or notepad (located in corporate communications' file cabinet).

☐ 1.12 Complete turnover sheet for next shift and conduct turnover by reviewing current status, outstanding issues, items for follow up, etc.

☐ 1.13 Verify that all of your checklists and information sheets have been properly completed/signed and leave paperwork for corporate communications emergency communications planner.

2. Sign Off

Completed By: _____ Date: _____

1. Public Information Coordinator Activation Checklist

☐ 1.1 Sign in on corporate communications EOF staffing board.

☐ 1.2 Don position badge (located in top drawer of corporate communications' file cabinet).

NOTE:	Emergency Planning Functional Area Manual Section 3.15 provides details for logging on to WebEOC®. Logon information may also be found in the Public Information Coordinator notebook.

☐ 1.3 Obtain copies emergency notification forms (ENF) from **ONE** of the following:

- EOF Offsite Agency Communicator
- WebEOC
- Joint Information Center (JIC)

NOTE:	It is imperative that the bridge line be accessed quickly.

☐ 1.4 **IF** the "normal" headset is not working, search quickly for an alternative: another cellular phone with headset, mobile belt pack unit which uses batteries, stationary headset, or standard desk phone.

☐ 1.5 Access JIC media bridge line (2-8080 or 9-1-866-385-2663, conferee code [(b)(6)]).

☐ 1.6 **IF** additional computers are needed to support public affairs EOF response, contact JIC Admin & Logistics Manager (2-0548) and request additional computers.

NOTE:	1. The Public Information Coordinator and one Technical Liaison should be located in the Data Coordinator room. 2. The EOF Data Coordinator can assist in correcting computer problems.

☐ 1.7 **IF** a laptop computer is **NOT** available or the printer in the Data Coordinator room is **NOT** working properly, relocate with the EOF Technical Liaison to the news group desk in the director's area until the equipment issue can be resolved.

☐ 1.8 Logon laptop using your LAN ID and password.

☐ 1.9 Align printer path to EOF Director Area printer:
\\MNSP1\EC1EOF124

☐ **1.10** **WHEN** computer and printer are operational, access JIC drive.

NOTE:	Directions for accessing JIC drive (charf01/ccr_jic) and EP Planning and Procedures SharePoint are in Joint Information Center (JIC) Reference Manual, located in corporate communications' file cabinet.

☐ 1.11 Access JIC drive and print initial news release prepared by site community relations/media relations duty person.

☐ 1.12 Request EOF Services Admin/Commissary make copies of initial news release and distribute copies to EOF responders, including the EOF log keeper.

☐ 1.13 Access e-mail and maintain open path for emails to NRC and Charlotte JIC.

NOTE:
- News releases/updates are to provide as much information as clearly as possible. They should anticipate questions and related issues and provide answers.
- The first news release in an event is a full news release. All subsequent "releases" are bulleted news updates. All news releases are numbered sequentially, beginning with the first full news release.

☐ 1.14 Prepare news releases and bulleted updates by working with News Manager, Technical Liaison, and Public Spokesperson, addressing, as appropriate:

Changes in event classification	Radiological releases
Current plant conditions	Dispatch of field monitoring teams
Visible or audible events such as fires and noises	Hazardous substance release
Nuclear insurance (if the public has been evacuated)	Any offsite response such as fire truck or ambulance
Employee information (e.g., injuries, personnel accountability, and site evacuation)	Rumors (dispel) from media, customers, social media, etc.
Sirens sounding (verify for news release/updates)	

☐ 1.15 **IF** event involves multiple crises (e.g., nuclear and high water, dam failure, power outages, etc.), refer to appropriate message folders on JIC share drive for additional reference materials.

☐ 1.16 Have Technical Liaison verify technical information provided in news releases.

☐ 1.17 **IF** event is security-related, coordinate with Spokesperson or EOF Director to ensure on-site incident command center or security reviews news release/updates.

☐ 1.18 Provide copy of news release/bulleted update to Public Spokesperson (or EOF Director, if Spokesperson not available) for review and approval prior to releasing to JIC for distribution or posting to the web.

☐ 1.19 **WHEN** Spokesperson (or EOF Director) has reviewed news release/bulleted update:

- Notify JIC that news release/bulleted update is ready for review by the public information manager and distribution if no changes are required.
- E-mail a "courtesy review" copy of news release/bulleted update (marked as Draft for Review) to NRC using one of the following email addresses: rdh1@nrc.gov or joey.ledford@nrc.gov).

☐ 1.20 **WHEN** public information manager concurs, enter time on news release and save final approved version in a file named "Final" plus name and number of release (e.g., Final CNS NR3, Final 02-04-04 9am Ice Storm) to eliminate confusion with previous draft versions.

☐ 1.21 Ensure Media Coordinator knows name and location of file.

☐ 1.22 Coordinate with EOF Services Admin/Commissary to ensure all news releases and bulleted updates are copied and distributed within EOF:

☐ 1.22.1 Ensure EOF Log Recorder receives copy of all news releases to record news release times in EOF log.

☐ 1.22.2 Ensure copy is put in master EOF news release folder.

☐ 1.22.3 (Oconee only) **WHEN** news releases are approved, ensure releases/updates are also distributed to ONS JIC by contacting Distribution Coordinator (9-1-864-624-4954) or ONS News Manager (9-1-864-624-4362).

☐ 1.23 Document key decisions, calls, and contacts not included in news releases and updates using ERO Facility Log sheets.

- ☐ 1.24 **IF** a Public Spokesperson is needed for Charlotte media center prior to visitor center evacuation, refer to appropriate steps in News Manager Checklist to prepare Public Spokesperson for news conference.
- ☐ 1.25 Retain copies of all news releases/bulleted updates prepared in EOF for Corporate Communications Emergency Communications Planner.
- ☐ 1.26 Complete turnover sheet for next shift and conduct turnover by reviewing current status, outstanding issues, items for follow up, etc.
- ☐ 1.27 Ensure that a copy of each news release/bulleted update is available prior to deleting files.
- ☐ 1.28 Delete **ALL** news releases/bulleted updates developed for the event from JIC drive after event is terminated.
- ☐ 1.29 Verify **ALL** checklists and information sheets have been properly completed/signed and leave paperwork for Corporate Communications Emergency Communications Planner.

2. Sign Off

Completed By: _____ Date: _____

1. Technical Liaison Activation Checklist

NOTE:	Technical Liaisons must coordinate closely and share information with one another to ensure consistent information is given to all parties internal and external to EOF.

☐ 1.1 Sign in on corporate communications EOF staffing board.

☐ 1.2 Don position badge (located in top drawer of corporate communications' file cabinet).

☐ **1.3** **IF** more than one Technical Liaison is assigned to EOF, determine who will:

- support Public Information Coordinator
- support Public Spokesperson
- man Joint Information Center (JIC)/EOF conference bridge
- man ONS JIC conference bridge (ONS event only)

and

Ensure information is shared **NOT** only with other Technical Liaisons, but also with other EOF and Oconee Joint Information Center positions, as needed.

NOTE:	• Instructions for using the wireless phone/headsets are located near the headsets. • It is imperative that bridge lines be accessed quickly. • The moderator for this line is the JIC regional communications coordinator.

☐ 1.4 **IF** "normal" headset is **NOT** working, use alternative: another cellular phone with headset, mobile belt pack unit which uses batteries, stationary headset, or a standard desk phone, and ask for assistance in getting mobile headset to work.

☐ 1.5 Access JIC/EOF conference bridge using wireless headset/mobile phone:

- ☐ 1.5.1 Dial Duke Conference System at 2-8080 (toll free 9-1-866-385-2663)
- ☐ 1.5.2 Enter conference code (b)(6)
- ☐ 1.5.3 **IF** moderator has **NOT** accessed the bridge line, call JIC Emergency Planner at 2-0614.

☐ 1.6 **WHEN** using the JIC bridge line:

- Identify yourself and your location.
- Take turns speaking (do not interrupt).
- Confirm receipt of information.
- Repeat back to ensure important/sensitive information is received/understood.
- Direct long discussions to a separate phone line to ensure all parties have access to the bridge and maintain bridge integrity.
- Do **NOT** depress "Hold" button (this will lock the system to those currently on line).

NOTE:	If the event involves Oconee, one Charlotte EOF Technical Liaison must become the primary contact for the Oconee JIC Technical Liaison. This is the primary communications path for the ONS JIC to gather and validate information about the event.

☐ 1.7 (Oconee only) Access Oconee JIC/EOF conference bridge:

- ☐ 1.7.1 Dial 2-8080 (toll free 9-1-866-385-2663)
- ☐ 1.7.2 Enter moderator code (b)(6)
- ☐ 1.7.3 Coordinate use of this line with Oconee JIC Liaison.

NOTE:	1. State and County Liaisons must respond to their assigned locations for Site Area Emergency or higher classification. For an Unusual Event or Alert, they will only respond if requested by the State or County. 2. State/County Liaison assignments are located in your notebook.

☐ 1.8 **WHEN** State/County Liaisons contact you, provide event status, updates, and requests for response from EOF Director or Emergency Planner.

NOTE:	Emergency Planning Functional Area Manual Section 3.15 provides details for logging on to WebEOC®. Directions may also be found in the EOF Technical Liaison notebook.

☐ 1.9 Access WebEOC for additional plant information, clarification, facility logs and Emergency Notification Forms (ENF).

☐ 1.10 Gather technical information on event and document on EOF log sheets.

☐ 1.11 Review document "Questions Corporate Communications May Ask."

☐ 1.12 Maintain "rumor/question/issue log" to keep all technical liaisons apprised of issues.

☐ 1.13 Support the Public Spokesperson as directed by the Public Spokesperson or News Manager.

☐ 1.14 Assist public information coordinator to understand information on Emergency Notification Forms (ENF) and logs.

☐ 1.15 Provide logs, information, and list of significant events to Public Spokesperson as requested.

NOTE: Before information about classification changes is shared with the JIC or any person outside the EOF, it must have already been provided to the state(s) and counties. THIS IS MANDATORY.

☐ 1.16 Update regional communications coordinator on JIC bridge as conditions change, particularly concerning emergency classifications.

☐ 1.17 Verify sounding of sirens with State Liaison in EOF or with State/County EOC Liaison and share this information with JIC Regional Communicator Coordinator.

☐ 1.18 Request assistance from EOF Rad Assessment Manager or designee in obtaining Site Boundary dose information.

☐ 1.19 (Oconee only) Provide this information to ONS Technical Liaisons.

☐ 1.20 Use dose comparison tip sheet and accumulated dose at Site Boundary information to identify proper dose comparisons for news releases/bulleted updates.

NOTE: Discussions relating to dose are always based on actual dose at site boundary. Do **NOT** use projected dose information or rad data from the ENF.

☐ 1.21 Provide dose comparison information to Public Information Coordinator.

☐ 1.22 Monitor and update radiological release information.

☐ 1.23 **IF** requested to determine whether Field Monitoring Teams are in the field, consult the EOF Rad Assessment Manager to obtain this information.

☐ 1.24 Assist Regional Communications Coordinator and State/County EOC Liaisons by obtaining information to dispel rumors:

- Obtain answers to all requests without prioritizing or judging merit.
- **IF** you **CANNOT** get questions answered in a timely manner, obtain assistance from emergency planners or JIC emergency planner.

NOTE: During news conferences this can be done using the JIC/EOF conference bridge (2-8080 or 9-1-866-385-2663 (toll-free) conferee code (b)(6)).

☐ 1.25 Notify Public Spokesperson immediately of any significant changes, such as changes in emergency classifications.

☐ 1.26 Provide information to JIC concerning community issues, concerns and situational updates.

☐ 1.27 Provide information in EOF Briefings concerning rumors being addressed. Refer to SR/0/A/2000/003, Activation of the Emergency Operations Facility, Enclosure 6.24 EOF Briefing Guideline.

☐ 1.28 Conduct turnover for next shift as needed by reviewing current status, outstanding issues, items for follow up, etc.

☐ 1.29 Verify **ALL** checklists and information sheets have been properly completed/signed and leave paperwork for Corporate Communications Emergency Communications Planner.

2. Sign Off

Completed By: _____ Date: _____

Duke Energy Standard Procedure for CNS, MNS & ONS **Activation of the Emergency Operations Facility** **Reference Use**	Procedure No. **SR/0/A/2000/003** Revision No. **004** Electronic Reference No. **SHR0005P**

PERFORMANCE

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Activation of the Emergency Operations Facility

1. PURPOSE

1.1 This procedure describes the emergency responsibilities and duties of the Emergency Operations Facility Emergency Response Organization (ERO) members.

2. DEFINITIONS

NOTE:	The EOF must be operational using 75 minutes as a goal for the minimum staff to be in place following declaration of an Alert or higher classification. Turnover should occur with the TSC at a time that will not decrease the effectiveness of communications with the offsite agencies.

2.1 Operational: The Emergency Response Facility (e.g., Technical Support Center, Operations Support Center, Emergency Operations Facility) is staffed, ready to receive turnover and ready to perform assigned emergency response functions.

2.2 Activated: The Emergency Response Facility (e.g., Technical Support Center, Operations Support Center, Emergency Operations Facility) has accepted turnover and has direction and control of assigned emergency response functions.

NOTE:	The following definition is applicable to the Emergency Notification Form Line 6.

2.3 Emergency Release: An unplanned, quantifiable radiological release to the environment during an emergency event. {AD-EP-ALL-0002}

NOTE:	The following definitions are applicable to the Emergency Notification Form, Line 8.

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

Plant parameters (e.g., 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 (e.g., 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.

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

Plant parameters (e.g., 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 (e.g., wind, ice/snow, ground tremors hazardous/toxic/radioactive material leak, fire, security events) 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.

2.6 Stable: Plant conditions are neither degrading nor improving.

3. PROCEDURE

NOTES:

- This procedure and the position specific enclosures are not intended to be followed in a serial step-by-step sequence.
- Instructions and guidance steps are to be implemented as applicable for the specific needs of the event.
- Use hard copy (paper) forms or electronic equivalents to complete all forms.
- References to "Status Boards" may refer to physical displays mounted in the facility or electronic displays either projected, displayed on large monitors or on personal computer monitors.

3.1 General instructions for all ERO members.

3.1.1 Ensure appropriate checklist, logs and forms are completed.

3.1.2 Provide critical information to appropriate personnel upon receipt rather than waiting for a time out or roundtable discussion.

3.1.3 Use "Attention in the EOF" to announce critical information in the facility.

NOTE {IER L1-13-10}:

- The Emergency Response Organization structure is scalable and flexible, based on the size, complexity, and the specifics of the hazard environment created by the emergency event. Additional functional elements (e.g., ERO positions) can be established to enhance the management and coordination of the event.
  - When the emergency event's complexity increases, then the ERO can expand, as additional functional responsibilities are needed.
  - When the complexity decreases, then the ERO can contract, when those additional functional responsibilities are no longer needed.
- The makeup and structure of the EOF will be determined by the EOF Director.
- EOF staffing may be required for extended periods of time (e.g., greater than 10 days for BDBEEs, ELAP, etc.).

3.1.4 **IF** additional personnel are needed to support the emergency or for 24-hour coverage, refer to the following for telephone numbers:

- ERO Member Contact Information notebook on the EOF Director's Area bookshelf (home, office and cell phone numbers).
- Duke Energy Enterprise Phone Book (office and cell phone numbers).
- Emergency Response Organization (ERO) database by contacting the EOF Emergency Planner.

3.1.5 **IF** equipment problems occur, contact the following:

- Computer – EOF Data Coordinator
- Communications systems and other facility equipment – EOF Services Manager

NOTE: When using the OAC to trend plant data for decision purposes, please note that reducing the trend screen overall size can cause the plotted data to be suspect upon restoration to full size. It is recommended that trend plots be minimized using the standard windows button (the button in the top right that has the underbar). The software code is designed to refresh the trend screens upon restoration to full size from a minimized state. A second method is to have the OAC redraw the trend after restoring the trend screen to full size.

3.2 **IF** access to SDS data is desired, login to system as follows:

3.2.1 From DAE main screen, select Search DAE tab.
3.2.2 Type SDS in Search box and press Enter.
3.2.3 Select **Catawba OAC SDS, McGuire OAC SDS,** or **Oconee OAC SDS** as applicable.
3.2.4 Select Run Application.
3.2.5 Logon with LAN ID and Password as follows:

NAM\UserID
Password

3.2.6 Select the desired OAC to access by checking the box and then clicking the Start button. You can start multiple sessions if desired.

CNS

- **C1 RT PRI**
- **C2 RT PRI**
- **C1 RT BAC**
- **C2 RT BAC**
- **Simulator**
- **Spare Simulator**
- **Drill Simulator**

MNS

- **M1 RTS PRI**
- **M1 RTS BAC**
- **M2 RTS PRI**
- **M2 RTS BAC**
- **Simulator**
- **Sim Backup**

ONS

- **O1 OAC**
- **O2 OAC**
- **O3 OAC**
- **KHU OAC**
- **Simulator A**
- **Simulator B**

3.2.7 Access emergency response displays as follows:

Catawba/McGuire

Enter GD (space)"Group Display Name" in the white box at the upper right portion of the screen.

Catawba Specific

Group Display Name	Group Display Description
ERDS1	ERDS Group 1
ERDS2	ERDS Group 2
EROCONT	Selected values associated with containment.
EROCORE1	Incore temperature values
EROCORE2	Additional incore temperature values
EROCORE3	Additional incore temperature values
EROINJCT	Selected letdown/charging values
EROPLEAK	Selected primary to containment leakage values
EROSLEAK	Selected primary to secondary leakage values
EROPRIM	Selected primary system values
ERORD5	Selected Dose Assessment Points
ERORXG	Selected Value for Reactor Engineer
EROSAMG	Selected SAMG Values
EROSECND	Selected secondary system values
MET	Met Tower Points

McGuire Specific

Group Display Name	Group Display Description
ERO-1	Selected plant parameters
EROCONT	Emergency Response Containment
EROCORE	Emergency Response Incore
EROINJCT	Emergency Response Injection
EROPRIM	Emergency Response Primary
ERORD5	Selected Dose Assessment Points
EROSECND	Emergency Response Secondary. {9} {10}
WEATHER	Weather Data

Oconee

Enter applicable Turn On code in the white box at the upper right portion of the screen.

Oconee Specific	
Turn On Code Name	Turn On Code Description
EROMENU	Menu Access for Oconee Data Screens
EROPRI	Selected Primary System values
EROSEC	Selected Secondary System values
EROCONT	Selected Containment Condition values
EROAUX	Selected Radiation Monitor values
EROAREA	Selected Area Radiation Monitor values
EROPROC	Selected Process Radiation Monitor values
EROENV	Selected values for Dose Assessment and Field Monitoring use
EROECCS	Selected ECCS values
ERDSMENU	Menu Access for Oconee ERDS Data

3.3 The Emergency Plant Status application has also been established for Oconee emergency response use. This application is available from DAE.

3.3.1 To launch the Emergency Plant Status application, from DAE select *Search DAE* and type in *Emergency Plant Status.*

3.3.2 Select the *Emergency Plant Status - ONS*

3.3.3 Select Run Application

3.3.4 Enter your password and verify domain as NAM.

3.4 <u>IF</u> EOF facility in Energy Center is unavailable, establish Alternate EOF at designated alternate location {IER L1-13-10}:

- Catawba Nuclear Station event - McGuire Administration Building per Enclosure 6.25
- McGuire Nuclear Station event - Catawba Administration Building per Enclosure 6.26
- Oconee Nuclear Station event - Catawba Administration Building per Enclosure 6.26

3.5 Perform the applicable actions for the event using instructions and guidance in the following enclosures:

ERO Position Title	Enclosure
EOF Director/Assistant EOF Director	6.1 EOF Director/Assistant EOF Director Checklist
Radiological Assessment Manager	6.6 Radiological Assessment Manager Checklist
EOF Dose Assessor	6.7 EOF Dose Assessor Checklist
Field Monitoring Coordinator	6.8 Field Monitoring Coordinator Checklist
Radio Operator	6.9 Radio Operator Checklist
EOF Offsite Agency Communicator	6.10 EOF Offsite Agency Communicator Checklist
EOF Services Administration/Commissary	6.11 EOF Services Administration/Commissary Checklist {71}
Accident Assessment Manager	6.12 Accident Assessment Manager Checklist
Accident Assessment Interface	6.13 Accident Assessment Interface Checklist
Operations Interface Checklist	6.14 Operations Interface Checklist {44}
Reactor Physics	6.15 Reactor Physics Checklist
EOF Emergency Planner	6.16 EOF Emergency Planner Checklist
EOF Log Recorder	6.17 EOF Log Recorder Checklist
EOF Data Coordinator	6.18 EOF Data Coordinator Checklist
EOF Services Manager	6.19 EOF Services Manager Checklist

4. REFERENCES

4.1 Catawba Nuclear Station (CNS) Emergency Plan

4.2 McGuire Nuclear Station (MNS) Emergency Plan

4.3 Oconee Nuclear Station (ONS) Emergency Plan

5. RECORDS

5.1 All logs, forms and records completed as the result of implementing this procedure during an actual declared event shall be retained as permanent plant records. Nuclear Generation Record Retention Rule Number 421734, "Procedures-Technical Completed."

5.2 All checklists, logs and forms completed as the result of implementing this procedure shall be collected at the end of the event and provided to the site Emergency Preparedness Manager.

6. Enclosures

6.1 EOF Director/Assistant EOF Director Checklist
6.2 Catawba Offsite Protective Actions
6.3 McGuire Offsite Protective Actions
6.4 Oconee Offsite Protective Actions
6.5 Emergency Classification Downgrade/Termination
6.6 Radiological Assessment Manager Checklist
6.7 EOF Dose Assessor Checklist
6.8 Field Monitoring Coordinator Checklist
6.9 Radio Operator Checklist
6.10 EOF Offsite Agency Communicator Checklist
6.11 EOF Services Administration/Commissary Checklist {71}
6.12 Accident Assessment Manager Checklist
6.13 Accident Assessment Interface Checklist
6.14 Operations Interface Checklist {44}
6.15 Reactor Physics Checklist
6.16 EOF Emergency Planner Checklist
6.17 EOF Log Recorder Checklist
6.18 EOF Data Coordinator Checklist
6.19 EOF Services Manager Checklist
6.20 Establishing Communications Links Between McGuire SAMG Evaluators {11}
6.21 Oconee Recovery Guidelines
6.22 Keowee Hydro Dam/Dikes - Condition A/B Descriptions
6.23 EOF Evacuation Checklist
6.24 EOF Briefing Guideline
6.25 Setup of Catawba Alternate EOF in McGuire Admin Bldg. {66, 67, 68}

6.26 Setup of McGuire or Oconee Alternate EOF in Catawba Admin Bldg. {66, 67, 68}
6.27 NRC Response Team Briefing
6.28 Commitments for SR/0/B/2000/003

INITIAL

NOTE:	Steps in this checklist may be performed in any order appropriate to the specific event conditions or they may be omitted if not applicable.

_____ **IF** reporting to EOF outside your normal work hours, complete a Fitness for Duty Questionnaire.

_____ Don position badge.

_____ Sign in on EOF staffing board.

NOTE:	The EOF Log Recorder will maintain the official log for the EOF Director/Assistant EOF Director. The EOF Director/Assistant EOF Director may maintain an additional log if desired.

_____ Establish log of activities sufficient to conduct turnover for on-coming shift.

_____ Establish communications with Emergency Coordinator or Assistant Emergency Coordinator in affected site's TSC:

- Use affected site's EOF Director to Emergency Coordinator Ringdown phone (Catawba and McGuire only)

  OR
- Catawba TSC, 9-803-701-5870

  OR
- McGuire TSC, 9-980-875-4950

  OR
- Oconee TSC, 9-1-864-873-3921

NOTE:	EOF access is controlled through the use of a monitored card reader process.

_____ Verify Energy Center Building Security personnel are monitoring the EOF entrance card reader.

INITIALS _____ PRINTED NAME _____ (EOF Director)

INITIALS _____ PRINTED NAME _____ (Asst. EOF Director)

NOTE: 1. **IF** the emergency situation prevents activating the TSC within 75 minutes of declaration, Control Room will:

- turn over responsibility for classification and state and county notification to EOF.
- maintain responsibility for NRC Event Notification until released by NRC Communicator in TSC.
- maintain responsibility for continuous phone communications to the NRC until relieved by the NRC Communicator in TSC.

2. **IF** TSC remains unavailable and EOF cannot take responsibility for classification and state and county notification, Control Room will maintain these responsibilities until one of the facilities is capable of turnover.

_____ **IF** emergency situation prevents activating TSC within 75 minutes of declaration, contact affected Site's Control Room:

Person Notified/Date/Time

- ☐ Catawba Control Room, 9-803-701-5164_____/_____
- ☐ McGuire Control Room, 9-980-875-4138_____/_____
- ☐ Oconee Unit 1 and 2 Control Room, 9-1-864-873-2159_____/_____
- ☐ Oconee Unit 3 Control Room, 9-1-864-873-2160_____/_____

_____ Verify EOF minimum staffing positions are prepared to assume their EOF duties prior to declaring the EOF operational:

_____ EOF Director
_____ Accident Assessment Manager
_____ Radiological Assessment Manager
_____ Off-Site Agency Communicator
_____ Off-Site Agency Communicator.

OR

IF Less than the above listed minimum EOF positions are filled,

AND

The 75-minute EOF operational time requirement is near,

AND

An extra person(s) is available whom the EOF Director believes is capable of filling a missing position(s) based on the training, experience and skills required by the ERO training program - ETQS 7111.0, Emergency Response Training

AND

An appropriate log entry is made. {64}

_____ Request Offsite Agency Communicator monitor EOF Fax 704-382-1825. {13}

NOTE:	For all drills, messages should be preceded with "This is a drill. This is a drill."

_____ Announce over EOF public address system:

"Anyone who is reporting to this facility outside of your normal work hours must complete a Fitness for the Duty Form. If you have consumed alcohol within the past five (5) hours or believe your work quality may be compromised due to fatigue {69}, sickness, or other potentially impairing conditions {72}, notify either the EOF Director, Assistant EOF Director, or the appropriate lead in your functional area."

_____ Declare EOF operational. EOF operational time: _____.

NOTE:	For all drills, messages should be preceded with "This is a drill. This is a drill."

_____ Announce over EOF public address system:

"Attention all EOF personnel. This is _____ (EOF Director's Name) and as of _____ hours,

the EOF is operational. Each EOF functional area should perform a Take a Minute in its work area."

_____ Notify Emergency Coordinator or Assistant Emergency Coordinator that the EOF is:

- Operational
- Gathering plant status information
- Ready to receive turnover at the Emergency Coordinator's convenience.

_____ Review definitions in Section 2 of this procedure.

NOTE:	The following step may be accomplished by conducting a Time Out or by verifying the level of readiness with the individuals in the positions.

_____ Verify the following positions, at a minimum, are ready to activate and prepared to perform the next offsite agency notification.

_____ Accident Assessment Manager
_____ Radiological Assessment Manager
_____ Lead Off-Site Agency Communicator

NOTE:	The Emergency Coordinator or Assistant Emergency Coordinator should fax the Emergency Coordinator Turnover Checklist to the EOF. The "Emergency Coordinator Turnover Checklist" is provided on page 13 of this enclosure.

_____ **IF** a classification change occurs during turnover, suspend turnover until CR OR TSC declares and transmits notification to offsite agencies. {12}

_____ Receive turnover from Emergency Coordinator or Assistant Emergency Coordinator utilizing the "Emergency Coordinator Turnover Checklist" or equivalent.

_____ Prepare or delegate to Assistant EOF Director preparations for briefing NRC by completing job aid in Enclosure 6.27 {8}

NOTE: The EOF Director is responsible for determining Emergency Classifications, approving Protective Action Recommendations, and approving Offsite Agency Emergency Notification Forms after the EOF is activated. These responsibilities remain with the EOF Director and shall not be delegated.

_____ Inform Emergency Coordinator that EOF is ready to activate.

NOTE: For all drills, messages should be preceded with "This is a drill. This is a drill."

_____ Announce over the EOF public address system:

"Attention all EOF personnel. The EOF was activated at _____ hours. This is _____. I am the EOF Director and have taken responsibility for emergency management from the Emergency Coordinator in the Technical Support Center. At this time, the EOF has command and control for emergency classification, offsite notifications, protective action recommendations, field monitoring, and offsite agency interface. The current emergency classification is _____. The following is a summary of the plant status _____ _____.

Additional information will be provided to you as conditions change. The next offsite agency notification shall be transmitted by _____ hours. The EOF staff shall prepare for a time-out and a roundtable discussion at _____ hours."

_____ Review current emergency classification with EOF staff and verify it meets criteria in:

- Catawba RP/0/A/5000/001
  OR
- McGuire RP/0/A/5700/000
  OR
- Oconee RP/0/A/1000/001.

NOTE:
1. The first message from the EOF should include EOF activation time on Line 13.
2. **IF** data changes during review of the emergency notification form, it is a good practice to require the EOF staff to do a "clean sweep" through the form prior to approval. {52}

_____ Notify Offsite Agency Communicator to make emergency notifications according to the following schedule:

Initial Notifications {39}

1. Initial notifications to the State(s) and counties must be made within 15 minutes of the event declaration time using the Emergency Notification form (ENF).

2. For an upgrade in classification prior to or while transmitting an initial message:
   -The notification for the lesser emergency classification must be made within 15 minutes of the lesser classification declaration time.
   -The agencies must be informed that an upgrade in classification will be coming.
   -The upgraded classification message must be transmitted within 15 minutes of the upgraded classification declaration time.

Follow-up Notifications

1. Follow-up notifications to the State(s) and Counties must be made according to the following schedule:

Catawba	McGuire	Oconee
-For NOUE, ALERT, SAE, or GE, every hour until the emergency is terminated.	-For NOUE, every 4 hours until the emergency is terminated. -For ALERT, SAE, or GE, every hour until the emergency is terminated.	-For NOUE, a follow-up is not required. -For ALERT, SAE, or GE, every 60 minutes until the emergency is terminated.

OR

Catawba	McGuire	Oconee
-If there is any significant change to the situation (make notification as soon as possible).	-If there is any significant change to the situation (make notification as soon as possible).	-If there is any significant change to the situation (make notification as the change occurs). See NOTE* below for examples of changes.

OR

Catawba	McGuire	Oconee
-As agreed upon with an Emergency Management official from each individual agency. Documentation shall be maintained for any agreed upon schedule change. -The interval shall not be greater than 4 hours to any agency.	-As agreed upon with an Emergency Management official from each individual agency. Documentation shall be maintained for any agreed upon schedule change. -The interval for ALERT, SAE, or GE shall not be greater than 2 hours to any agency.	-Required every 60 minutes from the notification time on Line 2 for ALERT, SAE, or GE. -This frequency may be changed at the request of offsite agencies.

*NOTE (Oconee): Examples of significant plant changes include: evacuation/relocation of site personnel, fires onsite, MERT activation and/or injured personnel transported offsite, chemical spills, explosions, Condition "A" or "B" for Keowee Hydro Project Dams/Dikes, or any event that would cause or require offsite agency response.

2. If a follow-up is due and an upgrade to a higher classification is declared, there is no need to complete the follow-up ENF. In this case, the offsite agencies must be notified that the pending follow-up is being superseded by an upgrade to a higher classification and information will be provided.

3. Initial messages in the General Emergency classification that involve an upgrade in PARs must be communicated to the offsite agencies as soon as possible and within 15 minutes.{79}

_____ **IF AT ANY TIME** Site Area Emergency is declared, consult Accident Assessment Manager and Radiological Assessment Manager to determine potential zones for protective action recommendations.

_____ **IF AT ANY TIME** General Emergency is declared, EOF Director shall IMMEDIATELY (within 15 minutes) make Protective Action Recommendations to offsite agencies on Emergency Notification Form (ENF) using: {57}

- ☐ Enclosure 6.2 - Catawba Offsite Protective Actions
- ☐ Enclosure 6.3 - McGuire Offsite Protective Actions
- ☐ Enclosure 6.4 - Oconee Offsite Protective Action

_____ **IF** changes to Protective Action Recommendations are approved by the EOF Director, ensure changes are transmitted to offsite agencies within 15 minutes.

CAUTION: If a zone has been accurately selected for evacuation, it shall remain selected. {27} {30}

_____ Evaluate specific plant conditions, offsite dose projections, field monitoring team data, and determine need to update Protective Action Recommendations.

_____ Review dose projections with Radiological Assessment Manager to determine if Protective Action Recommendations are required beyond the 10-mile EPZ.

_____ **IF** Protective Action Recommendations are required beyond 10 miles, notify the states and counties to consider sheltering/evacuation of general population beyond 10-mile EPZ.

NOTE: Descriptions of Keowee Hydro Dam/Dike Condition A and B are provided in Enclosure 6.22.

_____ **IF** Condition A, Dam Failure (Keowee or Jocassee) exists, make Protective Action Recommendations to Oconee County and Pickens County for imminent/actual dam failure on Emergency Notification Form Line 5B (Evacuate) and Line 5E (Other):

Line 5B *Move residents living downstream of the Keowee Hydro Project dams to higher ground.*

Line 5E *Prohibit traffic flow across bridges identified on your inundation maps until the danger has passed.*

_____ Communicate, or delegate to the Assistant EOF Director the responsibility to communicate, plant status to County Directors of Emergency Management (CDEM), State Liaisons or State Directors of Emergency Management (SDEM):

- EOF State Liaisons communicate information from EOF Director to County/State representatives using the CNS/MNS Decision Line **OR** ONS Decision Line.

NOTE: If using Decision Line or the EOF/Assistant EOF Director telephone, individual State and/or County dial codes and numbers can be obtained from the appropriate site's Emergency Telephone Directory. {7}

- Use Decision Line **OR** EOF Director/Assistant EOF Director telephone to contact appropriate states/counties.

Catawba Site Specific

_____ York CDEM _____

_____ Mecklenburg CDEM _____

_____ Gaston CDEM _____

_____ NC SDEM _____

_____ SC SDEM _____

McGuire Site Specific

_____ Mecklenburg CDEM _____

_____ Gaston CDEM _____

_____ Lincoln CDEM _____

_____ Iredell CDEM _____

_____ Catawba CDEM _____

_____ Cabarrus CDEM _____

_____ NC SDEM _____

Oconee Site Specific

_____ Oconee County CDEM _____

_____ Pickens County CDEM _____

_____ SC SDEM _____

_____ **IF** Protective Action Recommendations have been provided to the States and Counties, request protective action decision information from the SDEPs **AND** CDEPs:
Zones Evacuated: _____

Zones Sheltered: _____

Information Received from: _____

_____

_____ Inform Emergency Coordinator **OR** Assistant Emergency Coordinator of SDEPs and CDEPs protective action decisions and other offsite conditions.

NOTE: Wireless mikes are available for use during round tables/timeouts. {38}

_____ Perform the following steps as needed throughout the event:

- Conduct a time-out and hold a roundtable discussion approximately every hour, coordinated with the TSC, with the EOF staff using Enclosure 6.24 to discuss:
  - Emergency Classification
  - Protective Action Recommendations
  - Emergency Notification Form status
  - Offsite dose projections
  - Mitigation strategies
  - Termination criteria as defined in Enclosure 6.5.

- Ensure roundtables/time-outs enable EOF members to know what is going on, what to anticipate, and understand focus and priorities.

- Announce to the EOF the emergency classification, plant status, and priorities via the EOF public address system following EOF time-outs.

- Emergency Coordinator or Assistant Emergency Coordinator updates may be broadcast on EOF public address system.

- Advise Emergency Coordinator or Assistant Emergency Coordinator of:
  - All aspects of the emergency situation, including alternate strategies outside of procedures as plant conditions dictate
  - Emergency Classification changes
  - Protective Action Recommendations changes
  - Mitigation strategies
  - Contingency plans.

NOTE:
1. 10CFR50.54(x) states that a licensee may take reasonable action that departs from a license condition or technical specification in an emergency, when this action is immediately needed to protect the health and safety of the public and no action consistent with license conditions or technical specifications that can provide adequate or equivalent protection is immediately apparent. Ultimate responsibility for plant response in an emergency resides in the highest authority in the chain of command of the facility licensee available to make a decision about the response. The on duty OSM should be consulted and his concurrence obtained before invoking 10CFR50.54(x). {48}
2. Examples of potential 10CFR50.54(x) action items include: {40}
   - Deviation from an Emergency Procedure.
   - Rerouting system piping to temporarily restore system flow.
   - Re-alignment of electrical power systems outside of procedural guidance.
   - Using mitigation strategies not established by the SAMG guidelines.
3. IF the TSC is activated, the TSC Emergency Coordinator makes the decision to invoke 10CFR50.54(x). {48}

- WHEN restoring power in a LOOP event, have the risk significance of power restoration assessed for risk potential by Accident Assessment personnel. {42}
- Authorize emergency worker extensions if the radiation exposure doses are expected to exceed the blanket dose extension limits authorized by the Radiation Protection Manager using:
  - Catawba RP/0/A/5000/018
  - McGuire RP/0/A/5700/020
  - Oconee RP/0/B/1000/011.

NOTE: The Emergency Action Level descriptions on Line 4 of the Emergency Notification Form have been pre-screened.

- IF the event involves a security threat, consult the job aid, "Nuclear Security Approved Messages for Security Related Events/Issues," in the EOF Director's notebook for guidance in developing remarks for Line 13 of the Emergency Notification Form. {47}

NOTE: Personnel without badge access will need to be escorted into the EOF by the Assistant EOF Director, EOF Emergency Planner, EOF Services Manager, or their Mentor. {61}

- Approve personnel with training deficiencies prior to their participation as EOF staff members. This approval shall be documented in the EOF Log.
- Document personnel escorted into the EOF in the EOF log. {73}
- Turn over EOF Director duties to the Assistant EOF Director prior to leaving the EOF Director's Area.

- **IF** necessary to relieve Duke Energy personnel, request environmental surveillance support personnel from DOE Radiological Assessment Plan by contacting DOE - Savannah River Site. {53}

- Periodically review the staffing levels in the EOF to ensure adequate resources are in place to deal with response/recovery, and direct the EOF Services Manager to coordinate with the appropriate department, agency, or companies. {25}

- **IF** events affect more than one nuclear site, refer to the multi-site event staffing chart in the Oconee Emergency Plan, Figure B-11

- **IF** a beyond design basis external event (BDBEE) or extended loss of AC power (ELAP) event impacts multiple units at a single site, evaluate the need for unit-specific responses (e.g., SAMG, EDMG, FSG, etc.) and unit-specific response teams. {IER L-1-10}

NOTE:	The job aid, "Questions Corporate Communications may ask (based on initiating event)," is available in the EOF Director's notebook for guidance.

- Provide information to Corporate Communications for news releases.

- **IF** EOF needs to be evacuated, refer to EOF Evacuation Checklist in Enclosure 6.23. {54}

_____ Verify EOF Emergency Planner completes "EOF 24-Hour Staffing Log" in Enclosure 6.16.

_____ **IF** needed, conduct turnover for on-coming shift.

_____ Assist TSC Emergency Coordinator or Assistant TSC Emergency Coordinator as a Decision Maker upon entry into Severe Accident Management Guidelines (SAMG). (Catawba and McGuire) {11}

_____ Refer to Enclosure 6.5 (Emergency Classification Downgrade/Termination Criteria) for guidance to downgrade or terminate an emergency event.

NOTE:	The offsite Recovery Organization will stay at the EOF and work with the counties and states if radiological conditions exist beyond the site boundary. The On-Site Recovery Organization will be established by the Emergency Coordinator.

_____ **IF** needed, establish Recovery Organization:

- ☐ Catawba RP/0/A/5000/025
- ☐ McGuire RP/0/A/5700/024
- ☐ Oconee RP/0/B/1000/027 and guidance in Enclosure 6.21.

Terminate the emergency event in accordance with applicable procedure:

_____ Notification of Unusual Event
Catawba - RP/0/A/5000/002
McGuire - RP/0/A/5700/001

_____ Alert
Catawba - RP/0/A/5000/003
McGuire - RP/0/A/5700/002

_____ Site Area Emergency
Catawba - RP/0/A/5000/004
McGuire - RP/0/A/5700/003

_____ General Emergency
Catawba - RP/0/A/5000/005
McGuire - RP/0/A/5700/004.

NOTE:	During declared emergencies, Duke Energy does not need to meet Fatigue Rule Work Hour Controls. Once the declared emergency or the unannounced drill has been terminated, **ALL HOURS worked during the declared emergency will be included in future work hour calculations, including the determination of minimum breaks between shifts.** {69}

_____ Announce the following:

"Covered Workers need to ensure that all hours worked during an augmentation drill or a declared emergency are entered into EMPCenter prior to leaving the site. Supervisors should consider the need for to initiate a waiver in EmpCenter per NSD-200 Section 200.8." {69}

_____ Conduct a critique following termination of drill or actual event.

_____ Provide all completed paperwork to Emergency Preparedness following termination of a drill or actual event.

Close out an Oconee emergency event as listed below:

_____ **IF** an event meets termination criteria for General Emergency in Enclosure 6.5, Emergency Classification Downgrade/Termination, inform NRC Site Team Director (STD) and SDEM that termination criteria have been met.

- Secure agreement from the two directors to terminate the event.
- Document names and time decision made below.

	Name	Telephone Number	Time
SDEM	_____	9-1-803-737-8500	_____
NRCSTD	_____	(In person in EOF)	_____

- Request lead Offsite Agency Communicator to complete Termination Message and transmit it in accordance with SR/0/A/2000/004 (Notification to State and Counties from the Emergency Operations Facility) and terminate the emergency.

_____ **IF** terminating from an Unusual Event, Alert, or Site Area Emergency,

- Request lead Offsite Agency Communicator to complete Termination Message and transmit it in accordance with SR/0/A/2000/004 (Notification to State and Counties from the Emergency Operations Facility) and terminate the emergency.
- Notify the following agencies:

	Name	Telephone Number
SDEM	_____	9-1-803-737-8500

OR, **IF** the SEOC has not been activated, the County Emergency Management Directors (CEMD)

	Name	Telephone Number
Oconee CDEM	_____	9-1-864-638-4200
Pickens CDEM	_____	9-1-864-898-5943

_____ **IF** terminating from an emergency involving dam failure (Keowee or Jocassee),

- Discuss termination with Hydro Central (Refer to Section 6 of the Oconee Emergency Telephone Directory, Keowee Hydro Project Dam/Dike Notification).

_____ Request Oconee Emergency Preparedness to provide a copy of the Licensee Event Report (LER) to state and county agencies at the time it is sent to the NRC.

( )CATAWBA ( )MCGUIRE ( )OCONEE

UNIT(S) AFFECTED: {8} ( ) Unit 1 ( ) Unit 2 ( ) Unit 3

GENERAL

	POWER LEVEL	REACTOR COOLANT TEMPERATURE	REACTOR COOLANT PRESSURE
DATE:_____ TIME:_____	U-1_____	_____	_____
	U-2_____	_____	_____
	U-3_____	_____	_____

EMERGENCY CLASSIFICATION

NOUE DECLARED AT: _____ TSC ACTIVATED AT: _____

ALERT DECLARED AT: _____ EOF ACTIVATED AT: _____

SAE DECLARED AT: _____

G.E. DECLARED AT: _____

REASON FOR EMER CLASS: _____

SITE ASSEMBLY SITE EVACUATION

	YES	NO	TIME	LOCATION OR COMMENTS
SITE ASSEMBLY				
SITE EVAC. (NON-ESSEN.)				
SITE EVAC. (ESSENTIAL)				
OTHER OFFSITE AGENCY INVOLVEMENT				
MEDICAL				
FIRE				
POLICE/SHERIFF				

RADIOLOGICAL

	NUMBER ASSEM.	NUMBER DEPLOYED
FIELD MON. TEAMS		

	ZONES EVACUATED	ZONES SHELTERED	KI (General Public)
OFFSITE PARS			Yes ( ) No ( )

RELEASE IN PROGRESS YES ( ) NO ( )

RELEASE PATHWAY _____

CONTAINMENT PRESSURE _____ PSIG

WIND DIRECTION _____ WIND SPEED _____

OFFSITE COMMUNICATIONS

	NUMBER	TIME
LAST MESSAGE SENT:		
NEXT MESSAGE DUE:		

NOTE: EOF COMMUNICATION CHECKS SHOULD BE COMPLETED PRIOR TO ACTIVATING THE EOF.

OTHER NOTES RELATED TO THE ACCIDENT/EVENT/PLANT EQUIPMENT FAILED OR OUT OF SERVICE

_____

Job Aid {8}

	CATAWBA/McGUIRE	OCONEE	AVAILABLE	NOT AVAILABLE	COMMENTS
SG HEAT REMOVAL	AFW (CA) TRAIN A	EFDW TRAIN A			
	AFW (CA) TRAIN B	EFDW TRAIN B			
	TD AFW TRAIN	TDEFDW			
ECCS	NV TRAIN A	HPI TRAIN A			
	NV TRAIN B	HPI TRAIN B			
	NI TRAIN A				
	NI TRAIN B				
	ND TRAIN A	LPIP TRAIN A			
	ND TRAIN B	LPIP TRAIN B			
	STANDBY MU WATER PMP				
COOLING WATER	KC TRAIN A	UNIT 1 CC			
	KC TRAIN B	UNIT 2 CC			
		UNIT 3 CC			
	RN TRAIN A	UNIT 1 & 2 LPSW			
	RN TRAIN B	UNIT 3 LPSW			
POWER SYSTEMS	BUSLINE A	MAIN FEEDER BUS			
	BUSLINE B	STANDBY BUS			
	DG A	KEOWEE 1			
	DG B	KEOWEE 2			
	SATA	CT4			
	SATB	CT5			
	TRAIN A DC POWER	DC POWER			
	TRAIN B DC POWER				
	SSF DG	SSF DG			
CONTAINMENT	CONT. SPRAY TRAIN A	RBS TRAIN A			
	CONT. SPRAY TRAIN B	RBS TRAIN B			
	H^2 IGNITERS TRAIN A				
	H^2 IGNITERS TRAIN B				
	CONT. AIR RETURN FANS TRAIN A	A RBCU			
	CONT. AIR RETURN FANS TRAIN B	B RBCU			
		C RBCU			
	CONT. ISOL. TRAIN A	ES 1&2			
	CONT. ISOL. TRAIN B	ES 5&6			

Note: This form is not required for TSC/EOF Turnover. It is made available as a job aid only and can be used for other activities (e.g., Briefing the NRC).

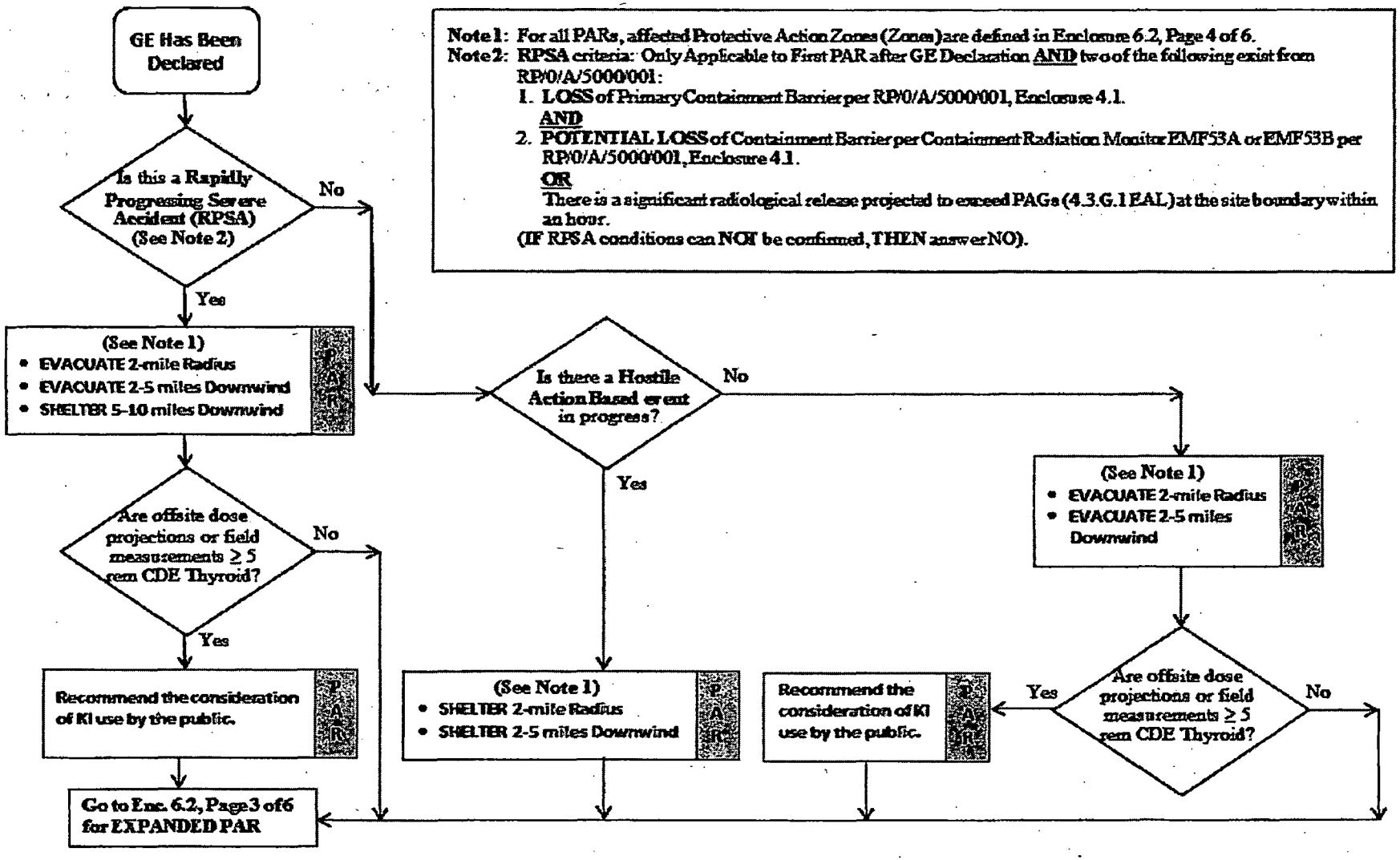
Protective Action Guides

Note: Protective Action Recommendations (PARs) for the public apply during a General Emergency, and include sheltering, evacuation and consideration of KI use. PARs are based on plant conditions independent of projected dose, and can also be based on projected dose. Protective Action Guides (PAGs) are levels of radiation dose at which prompt protective actions should be initiated and are based on EPA-400-R-92-001, Manual of Protective Action Guides and Protective Actions for Nuclear Incidents. The projected dose PARs specified in this enclosure are based on the PAGs listed below. The PAG for KI is taken from Potassium Iodide as a Thyroid Blocking Agent in Radiation Emergencies, FDA Guidance, November 2001 and Guidance for Industry, KI in Radiation Emergencies, Questions and Answers, FDA, December 2002. {23}

PROTECTIVE ACTION GUIDES (PAGs) (Projected Dose or Field Measurements)	
Total Effective Dose Equivalent (TEDE)	Committed Dose Equivalent (CDE) Thyroid
≥ 1 Rem	≥ 5 Rem

INITIALS _____ PRINTED NAME _____

Catawba Offsite Protective Actions Flowchart - INITIAL PAR



Note 1: For all PARs, affected Protective Action Zones (Zones) are defined in Enclosure 6.2, Page 4 of 6.

Note 2: RPSA criteria: Only Applicable to First PAR after GE Declaration **AND** two of the following exist from RP/0/A/5000/001:

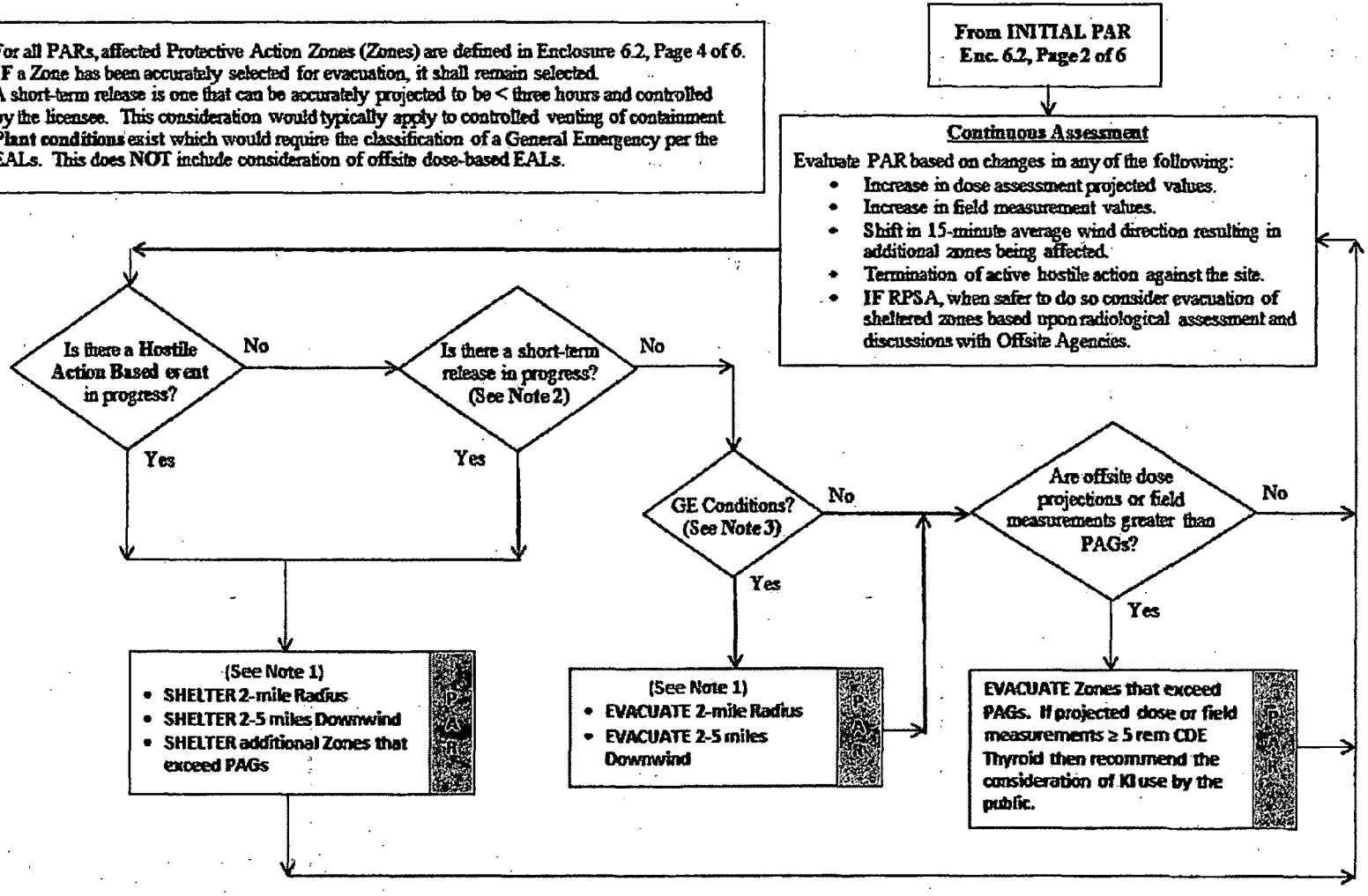
1. LOSS of Primary Containment Barrier per RP/0/A/5000/001, Enclosure 4.1.
   AND
2. POTENTIAL LOSS of Containment Barrier per Containment Radiation Monitor EMF53A or EMF53B per RP/0/A/5000/001, Enclosure 4.1.
   OR
   There is a significant radiological release projected to exceed PAGs (4.3.G.1 EAL) at the site boundary within an hour.

(IF RPSA conditions can NOT be confirmed, THEN answer NO).

Enclosure 6.2

Catawba Offsite Protective Actions Flowchart - EXPANDED PAR

Note 1: For all PARs, affected Protective Action Zones (Zones) are defined in Enclosure 6.2, Page 4 of 6. IF a Zone has been accurately selected for evacuation, it shall remain selected.
Note 2: A short-term release is one that can be accurately projected to be < three hours and controlled by the licensee. This consideration would typically apply to controlled venting of containment.
Note 3: Plant conditions exist which would require the classification of a General Emergency per the EALs. This does NOT include consideration of offsite dose-based EALs.



INITIAL

CAUTION: A short term release is any release that can be projected to be 3 hours or less in duration. An example would be a "puff release". A controlled release is one that can be started and stopped at the licensee's discretion, such as the venting of Containment for pressure control. **IF** a release is short term **AND** controlled, sheltering in lieu of evacuation should be considered. {36}

NOTE: {5} 1. If necessary, obtain needed data from one of the following sources in order of sequence:
A. Catawba SDS (Group Display "ERORD5")
B. Duke Energy Meteorologist (2-0139, 3-7896, **OR** 2-4316)
C. National Weather Service in Greer, S.C. (9-1-864-879-1085, 9-1-800-268-7785 **OR** Decision Line 15) {55}
2. OAC/SDS wind direction can be displayed as greater than 360 degrees. To arrive at wind direction for table below, subtract 360 from wind direction indications greater than 360 degrees.

—— **IF AT ANY TIME** a General Emergency is declared, make immediate PROTECTIVE ACTION RECOMMENDATIONS (PARs) within 15 minutes to be entered on Line 5 of the Emergency Notification Form (ENF). Determine the PARs based on the 15-minute average upper wind direction (OAC point C1P0250) as below:

Protective Action Zones			
Wind Direction	2-Mile Radius	2-5 Miles Downwind	5-10 Miles Downwind
348.75 - 11.25	A0	B1, C1, D1	B2, C2, D2
11.26 - 33.75	A0	C1, D1	C2, D2
33.76 - 56.25	A0	C1, D1, E1	C2, D2, E2
56.26 - 78.75	A0	C1, D1, E1, F1	C2, D2, E2, F2
78.76 - 101.25	A0	C1, D1, E1, F1	D2, E2, F2
101.26 - 123.75	A0	D1, E1, F1	D2, E2, F2, F3
123.76 - 146.25	A0	E1, F1	E2, F2, F3
146.26 - 168.75	A0	A1, E1, F1	A2, E2, F2, F3
168.76 - 191.25	A0	A1, E1, F1	A2, F2, F3
191.26 - 213.75	A0	A1, B1, E1, F1	A2, A3, B2, F2, F3
213.76 - 236.25	A0	A1, B1, F1	A2, A3, B2, F2, F3
236.26 - 258.75	A0	A1, B1, F1	A2, A3, B2, F3
258.76 - 281.25	A0	A1, B1, C1	A2, A3, B2, C2
281.26 - 303.75	A0	A1, B1, C1	A2, A3, B2, C2
303.76 - 326.25	A0	B1, C1	A3, B2, C2
326.26 - 348.74	A0	B1, C1, D1	B2, C2, D2

NOTE: IF changes to the initial Protective Action Recommendations are recommended, these changes must be transmitted to the offsite agencies within 15 minutes.

CAUTION: IF a zone has been accurately selected for evacuation, it shall remain selected. {27}, {30}

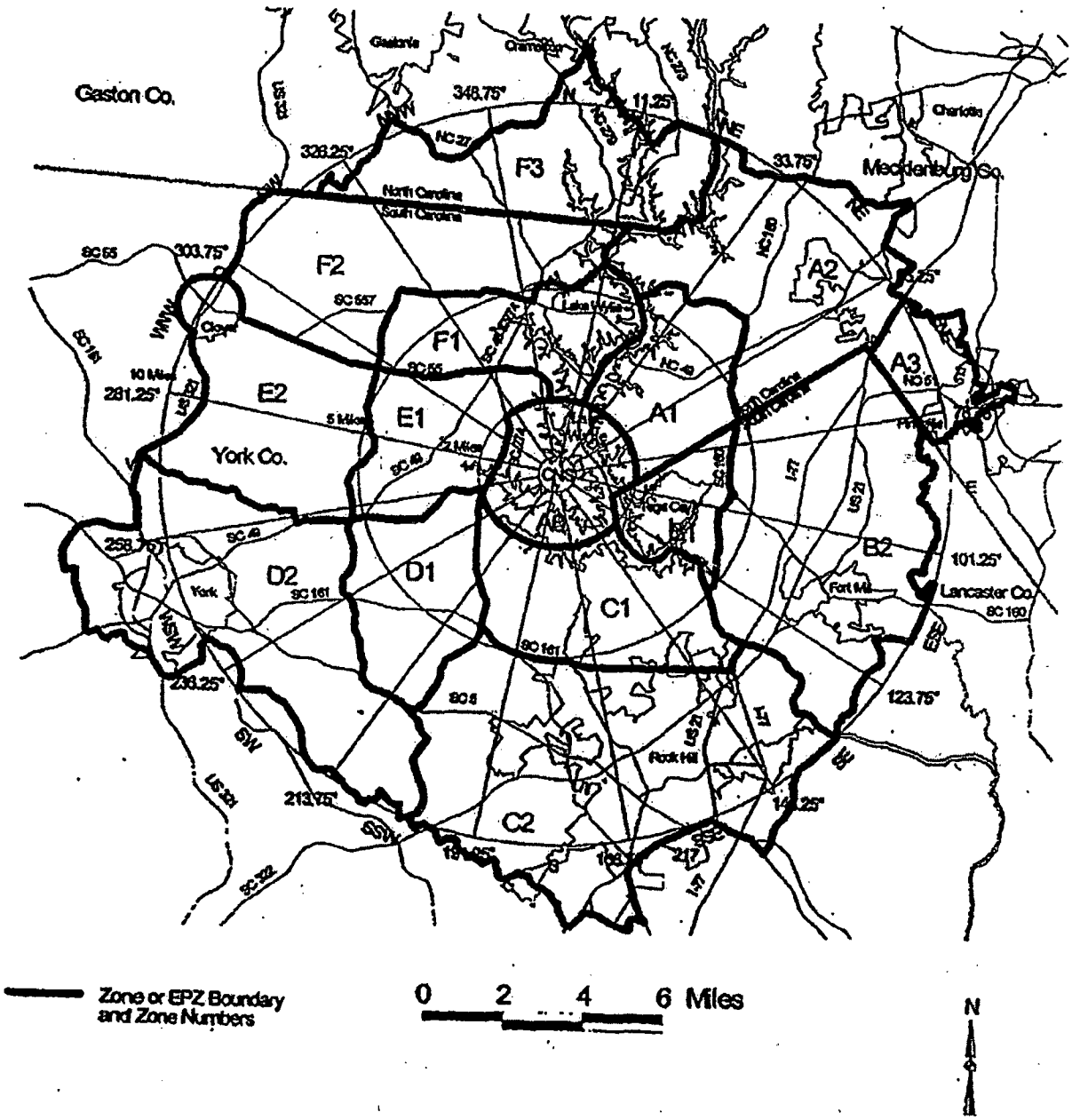
_____ IF dose projections indicate that CDE Thyroid dose will be ≥ 5 Rem, recommend KI use by the General Public in accordance with State Plans and Policy. {23}

_____ Evaluate specific plant conditions, offsite dose projections, wind direction, field monitoring team data, and assess the need to update Protective Action Recommendations made to the states and counties in the previous notification throughout the event.

_____ Review dose projections with the Radiological Assessment Manager to determine if Protective Action Recommendations are required beyond the 10-mile EPZ.

_____ IF Protective Action Recommendations are required beyond 10 miles, notify states and counties to consider sheltering/evacuating general population located beyond the affected 10-mile EPZ.

Catawba Protective Action Zones - 10-mile EPZ
(2 and 5-mile Radius, inner circles)



Protective Action Guides

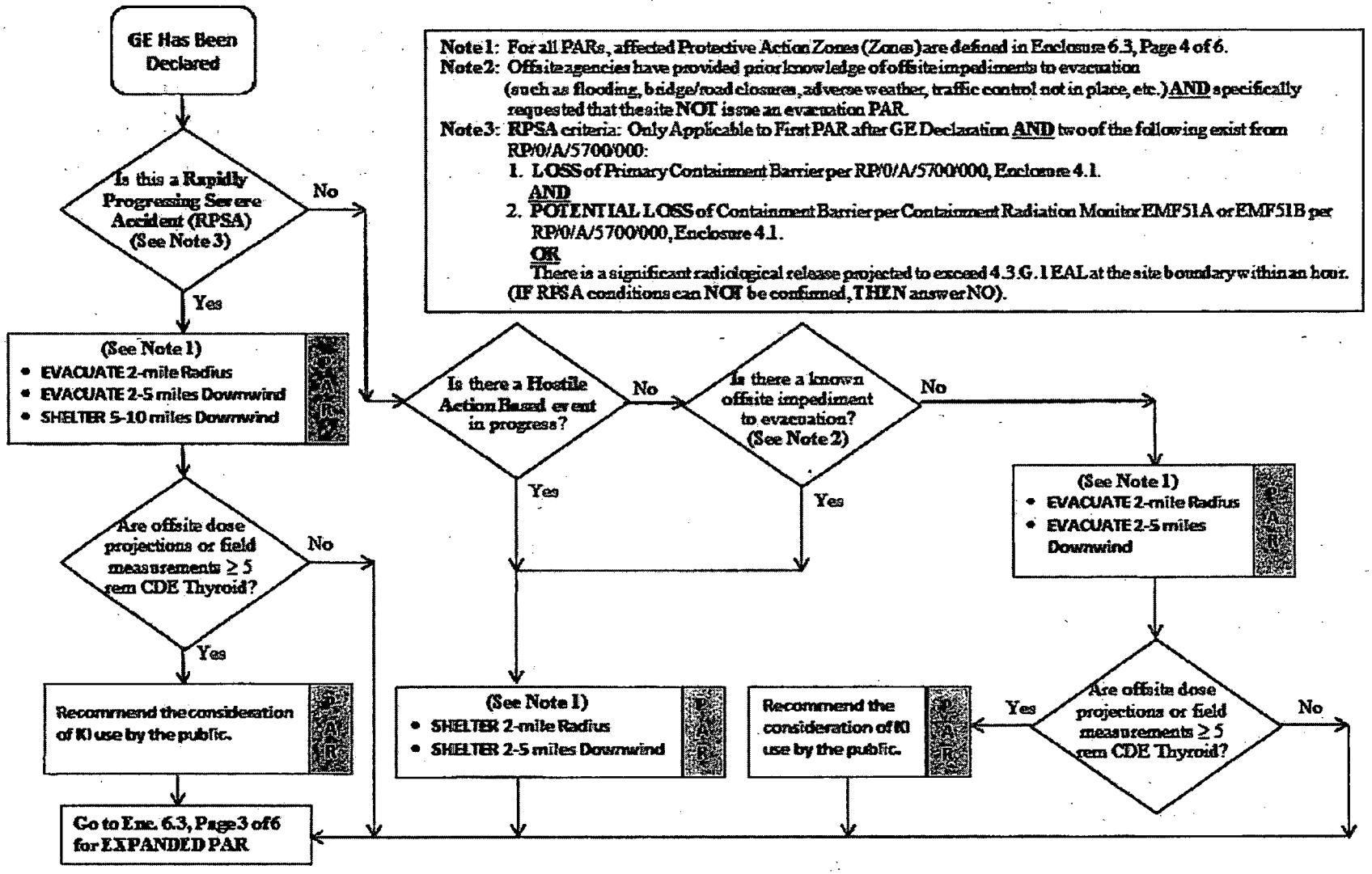
Note: Protective Action Recommendations (PARs) for the public apply during a General Emergency, and include sheltering, evacuation and consideration of KI use. PARs are based on plant conditions independent of projected dose, and can also be based on projected dose. Protective Action Guides (PAGs) are levels of radiation dose at which prompt protective actions should be initiated and are based on EPA-400-R-92-001, Manual of Protective Action Guides and Protective Actions for Nuclear Incidents. The projected dose PARs specified in this enclosure are based on the PAGs listed below. The PAG for KI is taken from Potassium Iodide as a Thyroid Blocking Agent in Radiation Emergencies, FDA Guidance, November 2001 and Guidance for Industry, KI in Radiation Emergencies, Questions and Answers, FDA, December 2002. {23}

PROTECTIVE ACTION GUIDES (PAGs) (Projected Dose or Field Measurements)	
Total Effective Dose Equivalent (TEDE)	Committed Dose Equivalent (CDE) Thyroid
≥ 1 Rem	≥ 5 Rem

INITIALS _____ PRINTED NAME _____

Enclosure 6.3

McGuire Offsite Protective Actions Flowchart - INITIAL PAR



Note 1: For all PARs, affected Protective Action Zones (Zones) are defined in Enclosure 6.3, Page 4 of 6.

Note 2: Offsite agencies have provided prior knowledge of offsite impediments to evacuation (such as flooding, bridge/road closures, adverse weather, traffic control not in place, etc.) **AND** specifically requested that the site **NOT** issue an evacuation PAR.

Note 3: RPSA criteria: Only Applicable to First PAR after GE Declaration **AND** two of the following exist from RP/0/A/5700/000:

1. LOSS of Primary Containment Barrier per RP/0/A/5700/000, Enclosure 4.1.
   AND
2. POTENTIAL LOSS of Containment Barrier per Containment Radiation Monitor EMF51A or EMF51B per RP/0/A/5700/000, Enclosure 4.1.
   OR
   There is a significant radiological release projected to exceed 4.3.G.1 EAL at the site boundary within an hour.

(IF RPSA conditions can NOT be confirmed, THEN answer NO).

Enclosure 6.3

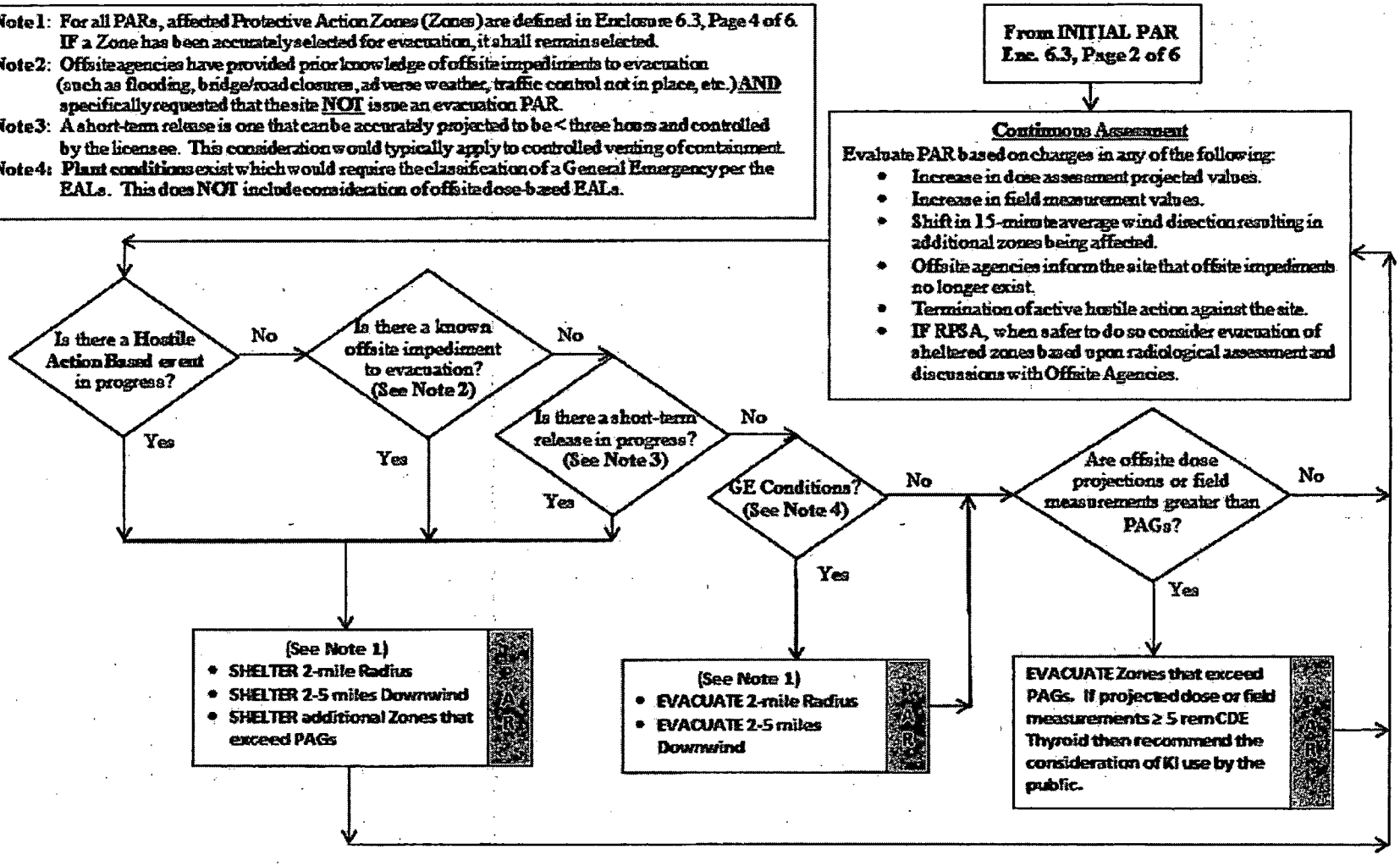
McGuire Offsite Protective Actions Flowchart - EXPANDED PAR

Note 1: For all PARs, affected Protective Action Zones (Zones) are defined in Enclosure 6.3, Page 4 of 6. IF a Zone has been accurately selected for evacuation, it shall remain selected.

Note 2: Offsite agencies have provided prior knowledge of offsite impediments to evacuation (such as flooding, bridge/road closures, adverse weather, traffic control not in place, etc.) **AND** specifically requested that the site **NOT** issue an evacuation PAR.

Note 3: A short-term release is one that can be accurately projected to be < three hours and controlled by the licensee. This consideration would typically apply to controlled venting of containment.

Note 4: Plant conditions exist which would require the classification of a General Emergency per the EALs. This does NOT include consideration of offsite dose-based EALs.



INITIAL

CAUTION: A short term release is any release that can be projected to be 3 hours or less in duration. An example would be a "puff release". A controlled release is one that can be started and stopped at the licensee's discretion, such as the venting of Containment for pressure control. **IF** a release is short term **AND** controlled, sheltering in lieu of evacuation should be considered. {36}

NOTE: {5} If necessary, obtain needed data from one of the following sources in order of sequence:

A. McGuire SDS (Group Display "ERORD5")
B. Duke Energy Meteorologist (2-0139, 3-7896, **OR** 2-4316)
C. National Weather Service in Greer, S.C. (9-1-864-879-1085, 9-1-800-268-7785 **OR** Decision Line 15) {55}

—— **IF AT ANY TIME** a General Emergency is declared, make immediate PROTECTIVE ACTION RECOMMENDATIONS (PARs) within 15 minutes to be entered on Line 5 of the Emergency Notification Form (ENF). Determine the PARs based on the 15-minute average upper wind direction (OAC point M1P0847) as below:

Protective Action Zones

Wind Direction	2-Mile Radius	2-5 Miles Downwind	5-10 Miles Downwind
0.1 - 22.5	B,C,L,M	D,O,R	E,F,S
22.6 – 45.0	B,C,L,M	D,O,R	E,Q,S
45.1 – 67.5	B,C,L,M	D,N,O,R	E,P,Q,S
67.6 – 90.0	B,C,L,M	D,N,O,R	P,Q,S
90.1 – 112.5	B,C,L,M	N,O,R	K,P,Q,S
112.6 – 135.0	B,C,L,M	A,N,O,R	I,K,P,Q,S
135.1 – 157.5	B,C,L,M	A,N,O	I,K,P,Q
157.6 – 180.0	B,C,L,M	A,N	H,I,J,K,P
180.1 – 202.5	B,C,L,M	A,N	G,H,I,J,K,P
202.6 – 225.0	B,C,L,M	A,D,N	G,H,I,J,K,P
225.1 – 247.5	B,C,L,M	A,D	F,G,H,I,J
247.6 – 270.0	B,C,L,M	A,D	F,G,H,I,J
270.1 – 292.5	B,C,L,M	A,D	E,F,G,H,J
292.6 – 315.0	B,C,L,M	A,D,R	E,F,G
315.1 – 337.5	B,C,L,M	D,R	E,F,G,S
337.6 – 360.0	B,C,L,M	D,R,O	E,F,S

NOTE: IF changes to the initial Protective Action Recommendations are recommended, these changes must be transmitted to the offsite agencies within 15 minutes.

CAUTION: IF a zone has been accurately selected for evacuation, it shall remain selected. {27}, {30}

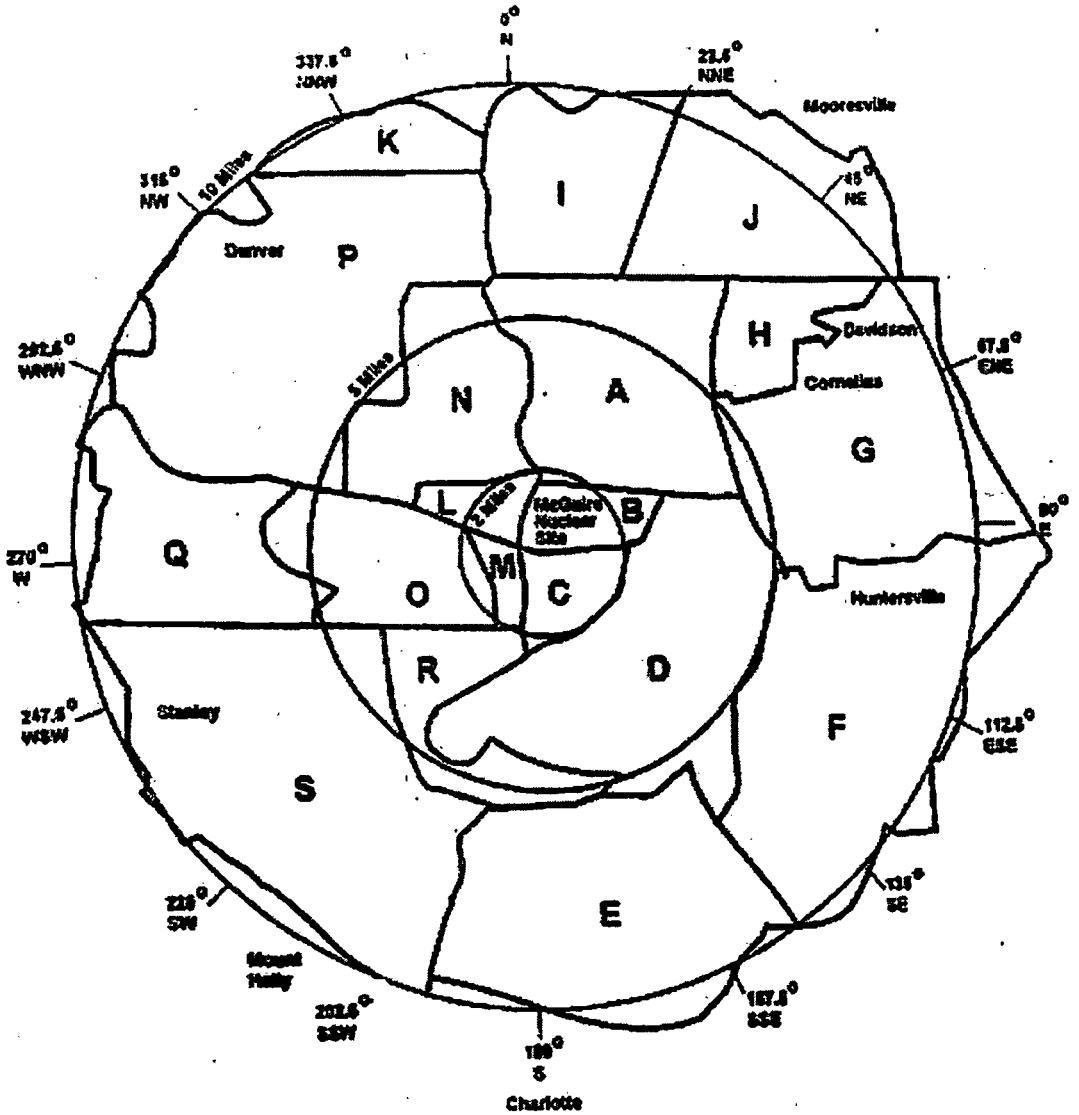
_____ IF dose projections indicate that CDE Thyroid dose will be ≥ 5 Rem, recommend KI use by the General Public in accordance with State Plans and Policy. {23}

_____ Evaluate specific plant conditions, offsite dose projections, wind direction, field monitoring team data, and assess the need to update Protective Action Recommendations made to the states and counties in the previous notification throughout the event.

_____ Review dose projections with the Radiological Assessment Manager to determine if Protective Action Recommendations are required beyond the 10-mile EPZ.

_____ IF Protective Action Recommendations are required beyond 10 miles, notify states and counties to consider sheltering/evacuating general population located beyond the affected 10-mile EPZ.

McGuire Protective Action Zones - 10-mile EPZ
(2 and 5-mile radius, inner circles)



Enclosure 6.4

Oconee Offsite Protective Actions

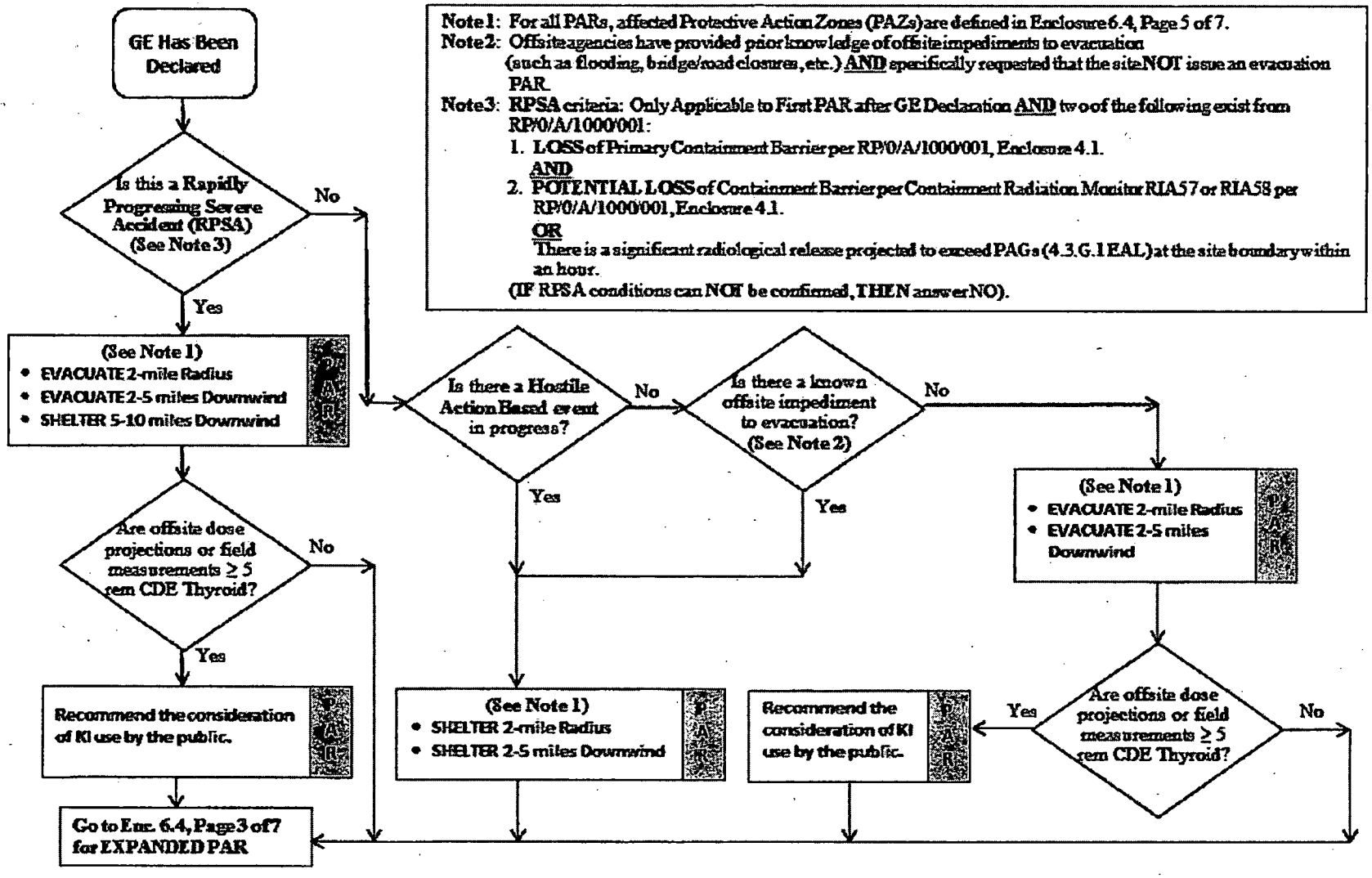
Protective Action Guides

Note:	Protective Action Recommendations (PARs) for the public apply during a General Emergency, and include sheltering, evacuation and consideration of KI use. PARs are based on plant conditions independent of projected dose, and can also be based on projected dose. Protective Action Guides (PAGs) are levels of radiation dose at which prompt protective actions should be initiated and are based on EPA-400-R-92-001, Manual of Protective Action Guides and Protective Actions for Nuclear Incidents. The projected dose PARs specified in this enclosure are based on the PAGs listed below. The PAG for KI is taken from Potassium Iodide as a Thyroid Blocking Agent in Radiation Emergencies, FDA Guidance, November 2001 and Guidance for Industry, KI in Radiation Emergencies, Questions and Answers, FDA, December 2002. {23}

PROTECTIVE ACTION GUIDES (PAGs) (Projected Dose or Field Measurements)	
Total Effective Dose Equivalent (TEDE)	Committed Dose Equivalent (CDE) Thyroid
≥ 1 Rem	≥ 5 Rem

INITIALS _____ PRINTED NAME _____

Oconee Offsite Protective Actions Flowchart - INITIAL PAR



Note 1: For all PARs, affected Protective Action Zones (PAZs) are defined in Enclosure 6.4, Page 5 of 7.

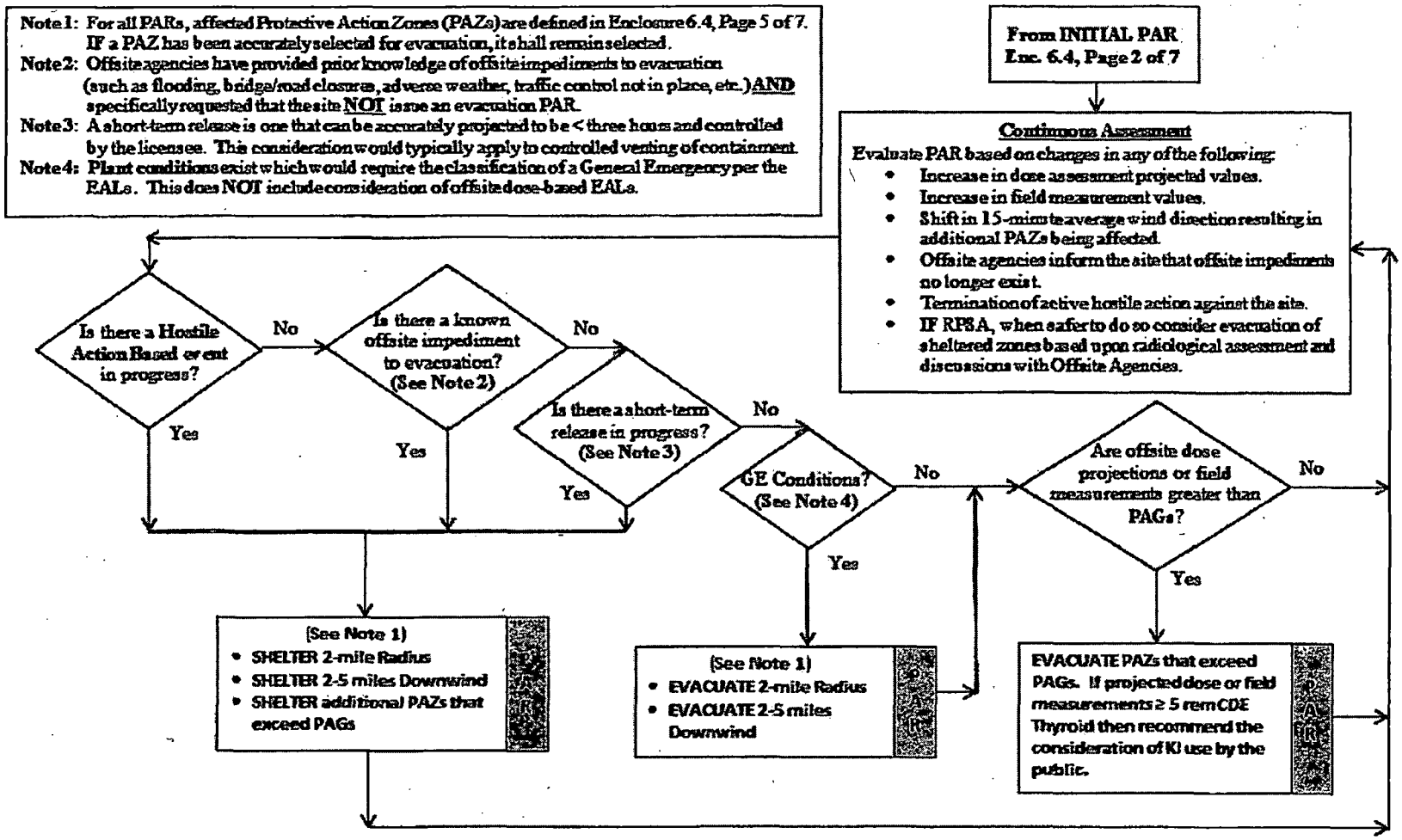
Note 2: Offsite agencies have provided prior knowledge of offsite impediments to evacuation (such as flooding, bridge/road closures, etc.) AND specifically requested that the site NOT issue an evacuation PAR.

Note 3: RPSA criteria: Only Applicable to First PAR after GE Declaration AND two of the following exist from RP/0/A/1000/001:

1. LOSS of Primary Containment Barrier per RP/0/A/1000/001, Enclosure 4.1.
   AND
2. POTENTIAL LOSS of Containment Barrier per Containment Radiation Monitor RIA57 or RIA58 per RP/0/A/1000/001, Enclosure 4.1.
   OR
   There is a significant radiological release projected to exceed PAGs (4.3.G.1 EAL) at the site boundary within an hour.

(IF RPSA conditions can NOT be confirmed, THEN answer NO).

Oconee Offsite Protective Actions Flowchart - EXPANDED PAR



INITIAL

CAUTION: A short term release is any release that can be projected to be 3 hours or less in duration. An example would be a "puff release". A controlled release is one that can be started and stopped at the licensee's discretion, such as the venting of Containment for pressure control. **IF** a release is short term **AND** controlled, sheltering in lieu of evacuation should be considered. {36}

NOTE: {5} If necessary, obtain needed data from one of the following sources in order of sequence:
A. Oconee SDS (Turn On Code "EROENV")
B. Duke Energy Meteorologist (2-0139, 3-7896, **OR** 2-4316)
C. National Weather Service in Greer, S.C. (9-1-864-879-1085 **OR** 9-1-800-268-7785)

___ **IF AT ANY TIME** a General Emergency is declared, make immediate PROTECTIVE ACTION RECOMMENDATIONS (PARs) within 15 minutes to be entered on Line 5 of the Emergency Notification Form (ENF). Determine the meteorological parameters to use based on the 15-minute average wind direction (SDS "EROENV" screen) as determined from the following chart below:

Time of Day Conditions	Met Parameter	First Priority	Second Priority	Third Priority	Fourth Priority
1000 - 1600	Wind Direction	60M reading	10M reading	River Tower	NWS
1600 – 1000 and River Wind between 210° and 360° or 0° and 70°	Wind Direction	60M reading	10M reading	River Tower	NWS
1600 – 1000 and River Wind between 70° and 210°	Wind Direction	River Tower	60M reading	NWS	

_____ Determine affected zones from chart below based on the 15-minute average wind direction as determined in previous step:

Wind Direction	Protective Action Zones 0-2 miles;	2-5 miles;	5-10 miles
14.1°-27°	A0,	C1, D1, E1,	C2, D2, E2
27.1°-42°	A0,	C1, D1, E1,	D2, E2
42.1°-66°	A0,	D1, E1,	D2, E2
66.1°-85°	A0,	D1, E1,	D2, E2, F2
85.1°-104°	A0,	D1, E1, F1,	D2, E2, F2
104.1°-129°	A0,	E1, F1,	E2, F2
129.1°-156°	A0,	A1, E1, F1,	A2, E2, F2
156.1°-175°	A0,	A1, E1, F1,	A2, F2
175.1°-181°	A0,	A1, F1,	A2, F2
181.1°-219°	A0,	A1, B1, F1,	A2, B2, F2
219.1°-255°	A0,	A1, B1,	A2, B2,
255.1°-271°	A0,	A1, B1, C1,	A2, B2, C2
271.1°-297°	A0,	B1, C1,	B2, C2
297.1°-312°	A0,	B1, C1,	B2, C2, D2
312.1°-345°	A0,	B1, C1, D1,	B2, C2, D2
345.1°-14°	A0,	C1, D1,	C2, D2

NOTE: IF changes to the initial Protective Action Recommendations are recommended, these changes must be transmitted to the offsite agencies within 15 minutes.

CAUTION: IF a zone has been accurately selected for evacuation, it shall remain selected. {27}, {30}

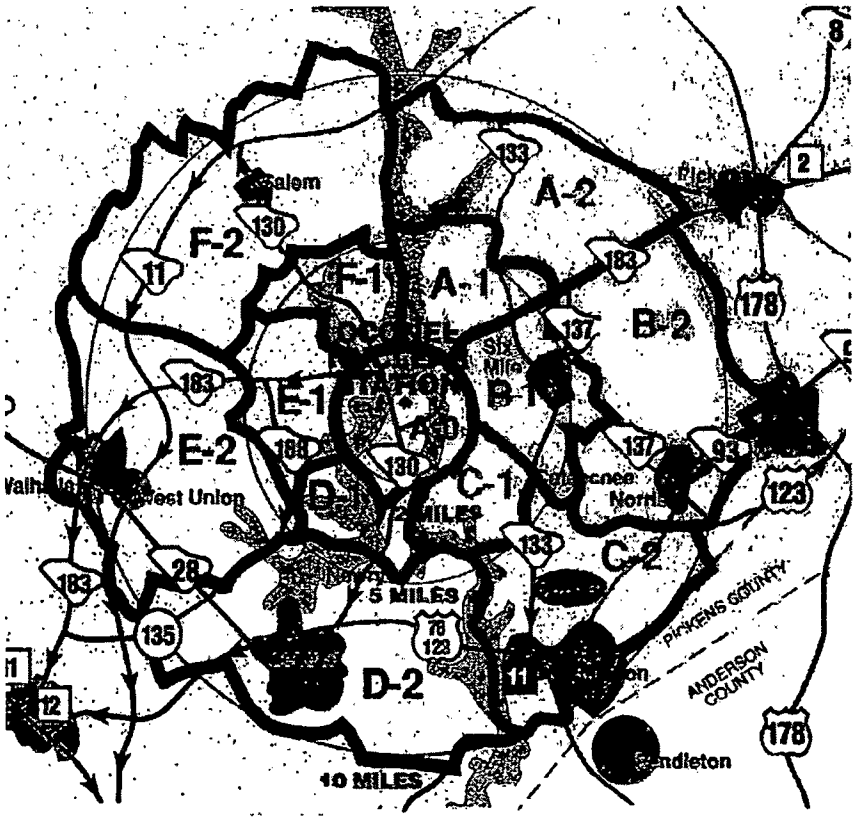
_____ IF dose projections indicate that CDE Thyroid dose will be ≥ 5 Rem, recommend KI use by the General Public in accordance with State Plans and Policy. {23}

_____ Evaluate specific plant conditions, offsite dose projections, wind direction, field monitoring team data, and assess the need to update Protective Action Recommendations made to the states and counties in the previous notification throughout the event.

_____ Review dose projections with the Radiological Assessment Manager to determine if Protective Action Recommendations are required beyond the 10-mile EPZ.

_____ IF Protective Action Recommendations are required beyond 10 miles, notify states and counties to consider sheltering/evacuating general population located beyond the affected 10-mile EPZ.

Oconee Protective Action Zones - 10-Mile EPZ
(2 and 5-mile radius, inner circles)

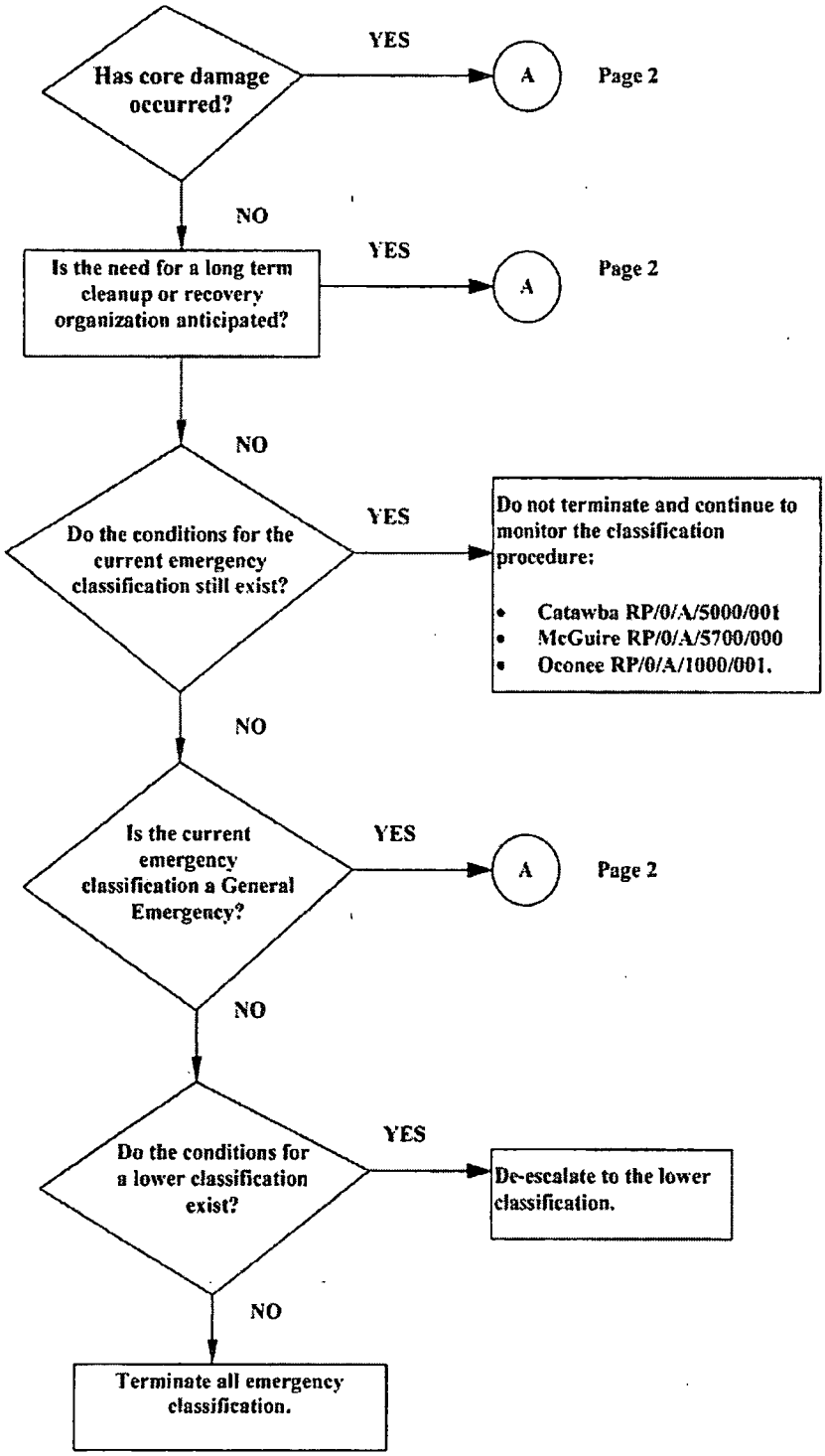


Radius From Site (miles)	Pickens County Zones	Oconee County Zones
0-2	A0	A0
2-5	A-1, B-1, C-1	D-1, E-1, F-1
5-10	A-2, B-2, C-2	D-2, E-2, F-2

Enclosure 6.5

Emergency Classification Downgrade/Termination Criteria

INITIAL



INITIALS _____ PRINTED NAME _____

Enclosure 6.5

Emergency Classification Downgrade/Termination Criteria

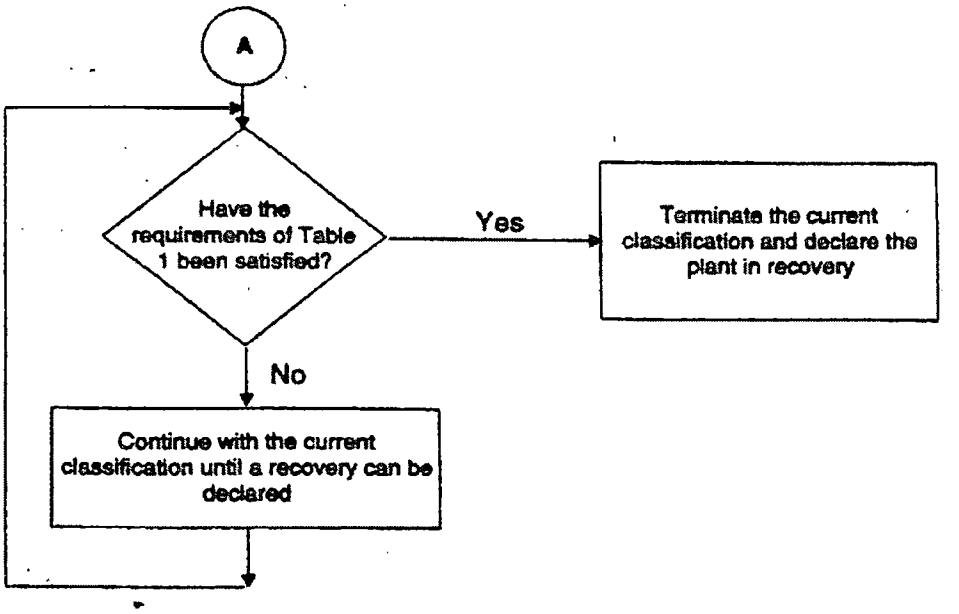


Table 1

_____Security threat has been contained.

_____No new evacuation or sheltering protective actions are anticipated.

_____Containment pressure is being maintained less than design pressure.

_____Containment hydrogen levels are less than 9% and stable or decreasing.

_____Decay heat rejection to the ultimate heat sink has been established and is stable. This is indicated by either of the following (circle one):

- Decay heat removal is considered stable if supported by redundancy or diversity

  - Examples of a satisfactory state include:

    - 2 trains of systems for sump recirculation.
    - 2 trains of Decay Heat Removal (DHR)
    - 1 train of DHR and the ability to cool with the steam generators.
    - steam generator cooling with 2 trains of feed capability.

OR

- Decay heat removal is considered stable if no additional fission product barrier challenges would be expected for at least 2 hours following interruption of core cooling.

(continued on next page)

_____The risks from recriticality are acceptably low.

_____Radiation Protection is monitoring access to radiologically hazardous areas.

_____Offsite conditions do not limit plant access.

_____The Public Information Coordinator, NRC officials, and State representatives have been consulted to determine the effects of termination on their activities.

_____The recovery organization is ready to assume control of recovery operations:

- Catawba - RP/0/B/5000/025
- McGuire - RP/0/A/5700/024
- Oconee - RP/0/A/1000/027

Enclosure 6.6

Radiological Assessment Manager Checklist

INITIAL

NOTE:	Steps in this checklist may be performed in any order appropriate to the specific event conditions or they may be omitted if not applicable.

_____ **IF** reporting to EOF outside your normal work hours, complete a Fitness for Duty Questionnaire.

_____ Don position badge.

_____ Sign in on the EOF staffing board.

_____ Obtain copy of AD-EP-ALL-0202, Emergency Response Offsite Dose Assessment. {56}

_____ **IF** Field Monitoring teams have been dispatched, ensure FMC has established communication with Field Monitoring teams. {18}

_____ Notify EOF Director that Radiological Assessment Manager (RAM) position is operational.

_____ Ensure all Radiation Protection personnel reporting to the EOF sign in on staffing board.

_____ Ensure that EOF Dose Assessors are kept informed of pertinent plant information including, but not limited to:

1) Time of TSC activation
2) Time of EOF activation
3) Time of reactor trip
4) Status of safety injection
5) Status of onsite radiological conditions
6) Time next emergency notification message is due. {15}

_____ Establish log of activities sufficient to conduct turnover for on-coming shift.

_____ Communicate to EOF Director:

1) Any release in progress, including dose rates (especially at the site boundary)
2) Field Team status/data
3) On-site radiological concerns
4) Need to request the site pull a reactor coolant sample for Dose Equivalent Iodine to support emergency classification

INITIALS _____ PRINTED NAME _____

_____ Review Criteria in "Classification of Emergency" procedure for emergency classification changes and discuss with Accident Assessment personnel plant conditions including power failures, valve closures, etc.

Catawba RP/0/A/5000/001
OR
McGuire RP/0/A/5700/000
OR
Oconee RP/0/A/1000/001.

NOTE:

- Microsoft Office Communicator is an acceptable communications method.
- Oconee TSC Dose Assessment Liaison, 9-1-864-873-4902.
- Catawba/McGuire, Dose Assessment Bridge, 9-980-875-4980.

_____ Establish communications with dose assessment personnel at TSC. Compare information, projections and strategies with TSC. {4, 60}

NOTE: Descriptions of Keowee Hydro Dam/Dike Condition A and B are provided in Enclosure 6.22. {58}

_____ **IF** Condition A, Dam Failure (Keowee or Jocassee) exists, make the following Protective Action Recommendations to Oconee County and Pickens County for imminent/actual dam failure and include on the Emergency Notification Form on Line 5B (Evacuate) and Line 5E (Other):

Line 5B *Move residents living downstream of the Keowee Hydro Project dams to higher ground.*

Line 5E *Prohibit traffic flow across bridges identified on your inundation maps until the danger has passed.*

NOTE:	Enclosure 6.2 (for CNS), Enclosure 6.3 (for MNS), and Enclosure 6.4 (for ONS) provide guidance for PARs and KI protective action recommendations.

_____ **IF** General Emergency is declared, provide PAR information on Line 5 of the Emergency Notification Form:

CAUTION:	**IF** a zone has been accurately selected for evacuation, it shall remain selected. {27}, {30}

- Zones for Evacuation
- Zones for Sheltering
- Use of KI for General Public. {23}
- Other PARs.

_____ Determine, with input from the Accident Assessment Manager (AAM), Protective Actions using

- ☐ Enclosure 6.2, Catawba Offsite Protective Actions
- ☐ Enclosure 6.3, McGuire Offsite Protective Actions
- ☐ Enclosure 6.4, Oconee Offsite Protective Actions

_____ Review dose projections and determine if Protective Action Recommendations are required beyond 10-mile EPZ.

NOTE:	**IF** changes to the initial Protective Action Recommendations, including KI, are recommended to and approved by the EOF Director, these changes shall be transmitted to the offsite agencies within 15 minutes and the reason for the Protective Action Recommendation change be reported on Line 13 of the ENF {46}.

_____ Provide EOF Director Protective Action Recommendations.

_____ Evaluate Emergency Release Status:

- None - no release of radioactivity generated by the event and no release expected.
- Is Occurring - radioactivity generated during an event that is currently being released through any defined accident pathway, as indicated by **ANY** of the following:

McGuire/Catawba

- EMF-38, 39, 40, 51 (MNS), 53 (CNS) containment monitor reading(s) indicate an increase **AND** containment pressure is greater than 0.3 psig
- EMF-38, 39, 40, 51 (MNS), 53 (CNS) containment monitor reading(s) indicate an increase **AND** a known leak path exists from containment
- EMF-36 unit vent monitor reading or other alternate means indicates steam generator tube leakage
- EMF-33 CSAE exhaust monitor reading or other alternate means indicates steam generator tube leakage
- A known unmonitored release path exists **AND** radioactive material exists
- Alternate method of release determination
- Field Monitoring Team results.

Oconee

- RIA-47, 48, 49, 49A, 57 or 58 containment monitor reading(s) indicate an increase **AND** containment pressure is greater than 1 psig
- RIA-47, 48, 49, 49A, 57 or 58 containment monitor reading(s) indicate an increase **AND** a known leak path exists from containment
- RIA-45 or 46 unit vent monitor reading(s) indicate an increase in activity
- RIA-40 CSAE exhaust monitor reading or other alternate means indicates steam generator tube leakage
- A known unmonitored release path exists, **AND** radioactive material exists
- Alternate method of release determination
- Field Monitoring Team results.

- Has Occurred - any radioactivity released to the environment during a declared emergency event, but has been stopped.

_____ Provide Emergency Release Status input for Line 6 of ENF.

_____ Evaluate **AND** provide Emergency Release Significance for ENF Line 7:

- **IF** no release in progress, Not Applicable.
- **IF** release significance is known, Within Normal Operating Limits **OR** Above Normal Operating Limits.
- **IF** release significance is unknown, Under Evaluation.

_____ Provide on ENF Line 9:

- Wind Direction
- Wind Speed
- Precipitation Type
- Stability Class.

NOTE: Emergency Release data are not required for initial Emergency Notification Forms **OR** notifications of changes in Protective Action Recommendations.{79}

_____ Provide on ENF Line 14:

- Release Characterization (Type, C (Ground) and Units, B (Ci/sec))
- Magnitude (Ci/Sec Release rates from Dose Assessment Report)
- Form **AND** start and/or stop time, as appropriate.

_____ Provide Projection Parameters on ENF Line 15:

- Projection period (forecast period in hours) from Dose Assessment Report.
- Estimated Release Duration by adding forecast period and time elapsed since release began.
- Date and time projection was performed.

_____ Provide Projected Dose information on ENF Line 16, by entering "Forecast Data" from Dose Assessment Report.

_____ Assist Public Affairs and/or Public Spokesperson with dose comparisons based on computer model or field data.

NOTE: **IF** necessary to relieve Duke Energy personnel, environmental surveillance support personnel from the DOE Radiological Assistance Plan may be requested by the Radiological Assessment Manager through the EOF Director. {53}

_____ **IF** needed, conduct turnover for on-coming shift.

_____ Provide all completed paperwork to Emergency Preparedness upon deactivation of EOF.

INITIAL

NOTE:	Steps in this checklist may be performed in any order appropriate to the specific event conditions or they may be omitted if not applicable.

_____ **IF** reporting to EOF outside your normal work hours, complete a Fitness for Duty Questionnaire.

_____ Don position badge.

_____ Obtain copy of AD-EP-ALL-0202, Emergency Response Offsite Dose Assessment.

_____ Initiate log of activities sufficient to conduct a turnover for on-coming shift.

_____ Acquire necessary dose assessment and plant status information.

_____ **IF** data acquisition programs are unavailable, request SDS data from TSC or instrument readings from Control Room (EMF and Met data).

NOTE:	Be aware of the effects of loss of power on critical EMFs (Catawba and McGuire) or RIAs (Oconee).

_____ Verify operability and validity of EMFs (Catawba and McGuire) or RIAs (Oconee) through the TSC.

_____ **IF** Catawba or McGuire event is in progress, verify effluent discharge alignment with Shift Lab, Radiation Protection Manager (TSC), or Dose Assessors (TSC) as necessary.

_____ **IF** Oconee event is in progress, verify effluent discharge alignment with TSC Dose Assessment Liaison (gas tank), RP Manager (gas tank or liquid releases), or Chemistry Manager in the OSC (liquid releases).

INITIALS _____ PRINTED NAME _____

NOTE:

- Microsoft Office Communicator is an acceptable communications method.
- Oconee, TSC Dose Assessment Liaison, 9-1-864-873-3705.
- Catawba/McGuire, Dose Assessment Bridge, 9-980-875-4980.

_____ Establish communications with dose assessment personnel at TSC. Compare information, projections and strategies with TSC.

_____ Obtain Dose Assessor turnover from TSC:

1. Release in progress: No:_____ Yes:_____

   Is occurring____ Has occurred____ Time____

   Normal Operating Limits: Below_____Above_____

2. Recommended Protective Actions:

   [A] No Recommended Protective Actions

   [B] Evacuate_____

   [C] Shelter-In-Place_____

   [D] Other_____

3. Additional pertinent information necessary to continue monitoring of release and dose assessment calculations.

Turnover complete date/time:_____

_____ Verify operability of Health Physics Network (HPN) phone by placing a call to the NRC using the number listed on HPN phone.

NOTE:

1. The NRC Regional Office will request activation of the HPN phone through Emergency Notification System (ENS) telephone if desired.

2. Information that may be requested over the HPN line could include, but is not limited to the following:

   - Is there any change to the classification of the event? If so, what is the reason?
   - Have toxic or radiological releases occurred or been projected (including changes in the release rate)?
   - If so, what are the actual or currently projected onsite and offsite releases, and what is the basis for this assessment?
   - What are the health effects or consequences to onsite and offsite people?
   - How many onsite or offsite people are being or will be affected and to what extent?
   - Is the event under control? When was control established, or what is the planned action to bring the event under control?
   - What mitigative actions are currently underway or planned?
   - What onsite protective measures have been taken or are planned?
   - What offsite protective actions are being considered or have been recommended to state and local officials?
   - What are the current meteorological conditions?
   - What are the dose and dose rate readings onsite and offsite? {16}

_____ **IF** requested during a drill or actual event, activate HPN phone by calling NRC using number listed on HPN phone.

_____ Analyze source-term data, formulate source-term mitigation strategies, and provide information to Radiological Assessment Manager, EOF Staff, and TSC Dose Assessors as required.

_____ Perform dose projections as appropriate to plant conditions.

_____ Interact with Field Monitoring Coordinator to compare off-site dose projections to actual field readings.

NOTE:	Emergency Release data are not required for initial Emergency Notification Forms **OR** notifications of changes in Protective Action Recommendations. {79}

_____ Evaluate dose projections and provide protective action recommendations to Radiological Assessment Manager and EOF Director.

_____ **IF** SAMGs are implemented **AND** offsite releases approach or exceed 100mRem TEDE or 500mRem Thyroid CDE, notify EOF SAMG Evaluator (in Accident Assessment Area). (Applicable to Catawba and McGuire). {22}

_____ **IF** SAMGs are implemented **AND** offsite releases approach or exceed 1Rem TEDE or 5 Rem Thyroid CDE, notify EOF SAMG Evaluator (in Accident Assessment Area). (Applicable to Catawba and McGuire). {14}

_____ **IF** needed, conduct turnover for on-coming shift.

_____ Restore equipment to "Ready Status" and notify appropriate personnel of conditions that would cause a less than operational status.

_____ Provide all completed paperwork to Emergency Preparedness upon deactivation of EOF.

Enclosure 6.8

Field Monitoring Coordinator Checklist

INITIAL

NOTE:	Steps in this checklist may be performed in any order appropriate to the specific event conditions or they may be omitted if not applicable.

_____ **IF** reporting to EOF outside your normal work hours, complete a Fitness for Duty Questionnaire.

_____ Don position badge.

_____ Sign in on EOF staffing board.

NOTE:	Field Teams may be directed by the EOF Field Monitoring Coordinator (FMC) prior to activation of the EOF.

_____ Obtain copy of SH/0/B/2005/002, Protocol for the Field Monitoring Coordinator During Emergency Conditions.

_____ Establish log of activities sufficient enough to conduct a turnover for on-coming shift.

NOTE:	1.	For drill or exercise met data, choose appropriate site simulator SDS resource.
	2.	For real time met data, choose the SDS resource for a specific site and unit.

_____ Refer to Procedure Step 3.2 to access SDS.

INITIALS _____ PRINTED NAME _____

_____ **WHEN** EOF Radio Operator has established communications with field monitoring teams, notify TSC Dose Assessors and provide direction to field monitoring teams. {19}

Catawba Specific

Perform duties as described in the following:

- HP/0/B/1009/004, "Environmental Monitoring for Emergency Conditions Within the Ten Mile Radius of CNS"
- HP/0/B/1009/019, "Emergency Radio System Operation, Maintenance, & Communication".

_____ **IF** needed, conduct turnover for on-coming shift.

_____ Restore equipment to "Ready Status" and notify appropriate personnel of conditions that would cause a less than operational status.

_____ Provide all completed procedures and copies of logs to EOF Emergency Planner upon deactivation of EOF.

Enclosure 6.9

Radio Operator Checklist

INITIAL

NOTE:	Steps in this checklist may be performed in any order appropriate to the specific event conditions or they may be omitted if not applicable.

_____ **IF** reporting to EOF outside your normal work hours, complete a Fitness for Duty Questionnaire.

_____ Don position badge.

_____ Sign in on EOF staffing board.

_____ Establish log of activities sufficient to conduct turnover for on-coming shift.

_____ Obtain copy of SH/0/B/2005/002 (Protocol for the Field Monitoring Coordinator During Emergency Conditions), Enclosure 5.3 (Field Monitoring Survey data Sheet) and Enclosure 5.4 (Meteorological Update for Field Monitoring Teams). {6}

_____ Establish contact with Field Teams.

_____ Communicate instructions from Field Monitoring Coordinator to Field Teams.

_____ Conduct turnover for on-coming shift, if needed.

_____ Provide all completed paperwork to Emergency Preparedness upon deactivation of EOF.

INITIALS _____ PRINTED NAME _____

Enclosure 6.10

EOF Offsite Agency Communicator Checklist

INITIAL

NOTE:	Steps in this checklist may be performed in any order appropriate to the specific event conditions or they may be omitted if not applicable.

_____ **IF** reporting to EOF outside your normal work hours, complete a Fitness for Duty Questionnaire.

_____ Don position badge.

_____ Sign in on EOF staffing board.

_____ Establish log of activities sufficient to conduct turnover for on-coming shift.

_____ Notify INPO for an Alert, Site Area Emergency, General Emergency, or any event expected to require significant industry support, including the name of the affected site(s) and a name and phone number to call for additional information at one of the following numbers: {70} {IER L1-13-10} {81}

- 9-1-800-321-0614 (Drills Only)
- 9-1-404-290-3977 (INPO Emergency Director)
- 9-1-404-290-3980 (INPO Assistant Emergency Director)

_____ **IF** requested:

- Provide INPO Emergency Director with a brief description of the nature of the event.
- Identify any equipment or support needed from INPO.
- Respond when contacted for periodic updates.

_____ Perform duties as described in procedure SR/0/A/2000/004 (Notification to States and Counties from the Emergency Operations Facility).

_____ Ensure emergency notification times are satisfied.

_____ Conduct turnover for on-coming shift, if needed.

_____ Provide all completed paperwork to Emergency Preparedness upon deactivation of EOF.

INITIALS _____ PRINTED NAME _____

Enclosure 6.11

EOF Services Administration/Commissary Checklist {71}

NOTE: Steps in this checklist may be performed in any order appropriate to the specific event conditions or they may be omitted if not applicable.

INITIAL

_____ **IF** reporting to EOF outside your normal work hours, complete a Fitness for Duty Questionnaire.

_____ Don position badge.

_____ Sign in on White Marker Board in EOF Services Area.

_____ Establish log of activities sufficient to conduct turnover for on-coming shift.

_____ Ensure that the EOF Services Area is set up.

_____ Provide administrative office support and supplies, such as:

- Office supplies and equipment
- Secretarial/clerical services
- Copy center/fax services

NOTE: Personnel without badge access will need to be escorted into the EOF by the Assistant EOF Director, EOF Emergency Planner, EOF Services Manager, or their Mentor. {61}

_____ Provide for personal needs of ERO, such as:

- Food and beverage
- Air travel, hotel, and car rental arrangements
- Tables and chairs
- Tents
- Portable toilets
- Trash receptacles

_____ **IF** requested, provide in-house craft resources.

_____ **IF** needed, contact additional personnel for support.

_____ Provide all completed paperwork to Emergency Preparedness upon deactivation of EOF.

INITIALS _____ PRINTED NAME _____

EOF FACILITY POST-EVENT CHECKLIST

_____ Secure the EOF Services Area.

_____ Restock office supplies.

_____ IF needed,

- Ensure return of relocated office equipment.
- Notify hotels/motels of release of rooms.
- Assist personnel needing transportation home.
- Notify vendors to pick up furniture and equipment not needed for recovery.

_____ Notify vendors to discontinue food services to EOF.

ACTION LIST FOR CHANGING FROM EMERGENCY TO RECOVERY MODE

_____ Replenish supplies.

_____ Determine additional space requirements.

_____ Prepare weekly work schedules.

_____ Determine hotel/motel accommodations and travel requirements and contact Travel Services for securing these requirements.

_____ Notify food vendors to arrange shift operations to support recovery efforts for meals and breaks (snacks) with times and locations for serving.

_____ Notify chairs and table suppliers for appropriate needs and quantities.

_____ Notify tent suppliers for appropriate needs and quantities.

_____ Notify portable toilet suppliers for appropriate needs and quantities.

_____ Notify trash receptacle suppliers for appropriate needs and quantities.

_____ Establish shift coverage of commissary personnel to support total recovery efforts.

Enclosure 6.12

Accident Assessment Manager Checklist

INITIAL

NOTE:	Steps in this checklist may be performed in any order appropriate to the specific event conditions or they may be omitted if not applicable.

_____ **IF** reporting to EOF outside your normal work hours, complete a Fitness for Duty Questionnaire.

_____ Don position badge.

_____ Sign in on EOF staffing board.

_____ Establish log of activities sufficient to conduct turnover for on-coming shift.

_____ **IF** needed to support emergency, request staffing by Reactor Physics.

_____ Obtain copy of applicable "Classification of Emergency" procedure.

- Catawba: RP/0/A/5000/001
- McGuire: RP/0/A/5700/000
- Oconee: RP/0/A/1000/001

_____ **IF** Oconee is affected, obtain copy of "Oconee Nuclear Site Emergency Action Level Description Guidelines" Manual.

_____ Ensure PC is on and displaying plant status.

_____ Post changes in Fission Product Barrier status on the Fission Product Barrier Status Board in the EOF Director's Area.

_____ Provide I/C number and description for ENF Line 4 to Offsite Agency Communicators.

NOTE:	Definitions for ENF Line 8 are in Steps 2.4, 2.5, and 2.6 in the body of this procedure.

_____ Provide Event Prognosis for ENF Line 8 to Offsite Agency Communicators. {1} {7}

_____ Provide appropriate information for ENF Line 10 to Offsite Agency Communicator.

INITIALS _____ PRINTED NAME _____

NOTE:	The Affected Unit on Line 11 is tied to the I/C on Line 4. Examples may not be all inclusive of events that may affect all units.

_____ Provide Affected Unit(s) for ENF Line 11 to Offsite Agency Communicators:

- Evaluate the following for classification for both units (CNS and MNS) or all three units (ONS). {28} {29}
  - Security event
  - Seismic event
  - Tornado on site
  - Hurricane force winds on site
  - Loss of both switch yards
  - Fire in SSF
  - Fire affecting shared safety related equipment
  - Condition A for Keowee Hydro Project Dam/Dike (ONS).
- **IF** event at Catawba or McGuire affects both units equally, check All. {28} {29}
- **IF** event at Oconee affects more than one unit equally, check All.
- **IF** event only affects one (1) unit **OR** one unit has a higher classification, check appropriate unit. {28} {29}

_____ Provide Unit Status for ENF Line 12 to Offsite Agency Communicators.

_____ **IF** an upgrade in classification occurs, notify Offsite Agency Communicator.

_____ Coordinate the following functions:

- Accident Assessment Interface
- Operations Interface
- Reactor Physics (as needed)

_____ Prepare for EOF Briefings using Enclosure 6.24 (EOF Briefing Guideline).

_____ Assist TSC Emergency Coordinator as requested upon entry into Severe Accident Management Guidelines (SAMGs) (Catawba and McGuire).

_____ Conduct turnover for on-coming shift, if needed.

_____ Provide all completed paperwork to Emergency Preparedness upon deactivation of EOF.

Enclosure 6.13

Accident Assessment Interface Checklist

INITIAL

NOTE:	Steps in this checklist may be performed in any order appropriate to the specific event conditions or they may be omitted if not applicable.

_____ **IF** reporting to EOF outside your normal work hours, complete a Fitness for Duty Questionnaire.

_____ Don position badge.

_____ Make Accident Assessment Manager aware this position is staffed.

_____ Establish log of activities sufficient enough to conduct turnover for on-coming shift.

_____ Ensure PCs are on and displaying affected station and unit plant status.

NOTE: Communications are established after the beep.

_____ Establish bridge line for Operations Loop for affected station:

- ☐ Catawba: 9-803-701-3994
- ☐ McGuire: 9-980-875-4500
- ☐ Oconee: 9-1-864-873-4908

_____ **IF** needed for McGuire, establish communications link with Engineering Manager, 9-980-875-4954.

_____ **IF** Oconee event, establish communications with Operations Interface, 9-1-864-873-3696.

_____ Obtain copy of Classification of Emergency procedure for affected station.

- ☐ Catawba: RP/0/A/5000/001
- ☐ McGuire: RP/0/A/5700/000
- ☐ Oconee: RP/0/A/1000/001

INITIALS _____ PRINTED NAME _____

_____ Obtain copy of Core Damage Assessment procedure for affected station.

- ☐ Catawba: RP/0/A/5000/015
- ☐ McGuire: RP/0/A/5700/019
- ☐ Oconee: RP/0/B/1000/018.

_____ Gather plant status information using Accident Assessment Initial Information Request Form on page 4 or 5 of this enclosure.

_____ **IF AT ANY TIME** General Emergency is declared, **RECOMMEND IMMEDIATELY** to Accident Assessment Manager **AND** RAM protective actions using:

- ☐ Enclosure 6.2 - Catawba Offsite Protective Actions
- ☐ Enclosure 6.3 - McGuire Offsite Protective Actions
- ☐ Enclosure 6.4 - Oconee Offsite Protective Actions

_____ Perform the following steps as needed throughout event:

_____ **IF** condition warrants, determine analysis of reactor core and containment conditions in regard to:

- Core sub-cooling
- Decay heat generation
- Heat removal capabilities (core and containment)
- Fission product release potential (core and containment).

_____ **IF** condition warrants, provide:

- Estimates of core uncovery times
- Interpretations of reactor water level data.

_____ Monitor status of Emergency Operations Procedures (EOPs) and discuss with Accident Assessment Manager.

_____ Confer with Radiological Assessment group in EOF.

_____ Consult with Operations Interface on anticipated course of events.

_____ Update status board in Accident Assessment room.

_____ Confer with Accident Assessment Manager on the following:

- Anticipated course of events
- Diagnosis of the accident and mitigation strategies
- Analysis of core and containment
- Core damage and fission product release potential
- Background information of system design
- Emergency classifications.

_____ Support Engineering Manager in TSC in accident and mitigation strategies.

_____ Assist TSC as an evaluator upon entry into Severe Accident Management Guidelines (SAMG) (as requested).

_____ **IF** McGuire has entered SAMG, **REFER TO** Enclosure 6.20 (Establishing Communications Links between McGuire SAMG Evaluators).

_____ Conduct turnover for on-coming shift, if needed.

_____ Provide all completed paperwork to Emergency Preparedness upon deactivation of EOF.

Catawba or McGuire Initial Information Request

Initial Information Request	Results
Emergency Classification Status	
EAL Declaration Chronology	
Protective Actions Status	
Reactor/Turbine Status	
Power Level	
Time of Trip & On What Signal	
Any Abnormal Response	
NC Pump Status	
Core Cooling Status (subcooled margin/ RVLIS/natural circulation)	
Orange or Red CSFs Alarms Received	
Safety Injection	
When Actuated & on What Signal	
NV, NI, ND, Ice Condenser Status	
Feedwater	
CF and CA Status	
Main Steam	
Isolation Status	
SMSV, SM PORV, SB Status	
Electric Power	
600V, 4160V, D/G Status	
Containment	
Isolation Status	
NS and VX Status	
Security/Fire/Flooding/HAZMAT/Other Hazards	
Plant Conditions Status	
Off-site Releases	
Status	

Oconee Initial Information Request

Initial Information Request	Results
Emergency Classification Status	
EAL Declaration Chronology	
Protective Actions Status	
Reactor/Turbine Status	
Power Level	
Time of Trip & On What Signal	
Any Abnormal Response	
Reactor Coolant Pump Status	
Core Cooling Status (subcooled margin/ RVLIS/natural circulation)	
Safety Injection	
When Actuated & on What Signal	
HPI, LPI Status	
Feedwater	
Feedwater and Emergency Feedwater Status	
Main Steam	
Isolation Status	
MSSV Status	
Electric Power	
600V, 4160V, Keowee, Lee Status	
Containment	
Isolation Status	
RBS, RBCU Status	
Security/Fire/Flooding/HAZMAT/Other Hazards	
Plant Conditions Status (Keowee Hydro Dam status)	
Off-site Releases	
Status	

Enclosure 6.14

Operations Interface Checklist

INITIAL

NOTE:	This enclosure does not apply to Oconee.

NOTE:	Steps in this checklist may be performed in any order appropriate to the specific event conditions or they may be omitted if not applicable.

_____ **IF** reporting to EOF outside your normal work hours, complete a Fitness for Duty Questionnaire.

_____ Don position badge.

_____ Sign in on EOF staffing board.

_____ Establish log of activities sufficient to conduct turnover for on-coming shift.

_____ Perform following steps as needed throughout event:

_____ Provide communications interface between Accident Assessment Group and TSC Operations Group.

_____ Advise Accident Assessment Group on the following:

- Emergency Operations Procedures (EOPs)
- Diagnosis of accident and mitigation strategies
- Emergency classification.

_____ Advise TSC of anticipated course of events.

_____ Conduct turnover for on-coming shift, if needed.

_____ Provide all completed paperwork to Emergency Preparedness upon deactivation of EOF.

INITIALS _____ PRINTED NAME _____

Enclosure 6.15

Reactor Physics Checklist

INITIAL

NOTE:	Steps in this checklist may be performed in any order appropriate to the specific event conditions or they may be omitted if not applicable.

_____ **IF** reporting to EOF outside your normal work hours, complete a Fitness for Duty Questionnaire.

_____ Don position badge.

_____ Sign in on EOF staffing board.

_____ Establish log of activities sufficient to conduct turnover for on-coming shift.

_____ Obtain any applicable nuclear design calculations from Nuclear Engineering office area.

_____ Establish communications with TSC Reactor Engineer.

_____ **IF** conditions warrant, determine analysis of reactor core and fuel with respect to:

- Reactor Physics parameters
- Core subcriticality.

_____ Provide Accident Assessment Manager with information concerning any abnormal core conditions.

_____ Conduct turnover for on-coming shift, if needed.

_____ Provide all completed paperwork to Emergency Preparedness upon deactivation of EOF.

INITIALS _____ PRINTED NAME _____

INITIAL

NOTE:	Steps in this checklist may be performed in any order appropriate to the specific event conditions or they may be omitted if not applicable.

_____ **IF** reporting to EOF outside your normal work hours, complete a Fitness for Duty Questionnaire.

_____ Don position badge.

_____ Sign in on EOF staffing board.

_____ Establish log of activities sufficient to conduct turnover for on-coming shift.

_____ Log in to Emergency Planner computer.

_____ (MNS and CNS only) Obtain Emergency Planner wireless phone and headset from Emergency Planner Desk area and access EP bridge line, 9-803-701-4010.

NOTE:	Have on hand all emergency notification forms (ENFs) transmitted to state and local agencies up to this time. Be prepared to answer questions concerning information on the ENFs as well as any other information requested by ECOC Director when called back. {21}

_____ Contact the Enterprise Crisis Operations Center (ECOC) Director by email at ECOCDirectors@duke-energy.com **OR** by phoning the Enterprise Security Console at 2-8851 or 9-1-800-943-7584, ask them to contact the ECOC Director about the EOF activation, and provide your call back number.{IER L1-13-10}{77}

NOTE:	Personnel without badge access will need to be escorted into the EOF by the Assistant EOF Director, EOF Emergency Planner, EOF Services Manager, or their Mentor. {61}

_____ Support EOF Director with the following:

- _____ Provide escorted access to EOF for personnel without badge access. {61}
- _____ Document names of personnel escorted in log. {73}
- _____ Complete EOF Director Checklist items as requested.
- _____ Clarify Emergency Plan and Emergency Plan Implementing Procedure information.
- _____ Interface with federal, state and local agencies.

_____ Assist Off-Site Agency Communicators in preparation of emergency notifications.

INITIALS _____ PRINTED NAME _____

_____ **IF** a security event at MNS requires assembling MNS TSC/OSC ERO at EOF, complete "MNS Security Event, TSC/OSC Assembled at EOF Checklist," page 10 of 12 of this enclosure.

_____ **IF** a Beyond Design Basis External Event (BDBEE) or Extended Loss of Offsite AC Power (ELAP) event at MNS requires assembling TSC/OSC ERO at the EOF, complete "MNS BDBEE/ELAP, TSC/OSC Assembled at EOF Checklist," page 10 of 12 of this enclosure. {76}

_____ **IF** a security event at CNS requires assembling the duty CNS TSC ERO at the EOF, complete "CNS Security Event, TSC ERO Assembled at EOF Checklist," page 11 of 12 of this enclosure. {41}

NOTE: 1. EOF Duty Roster is available on DAE using Nuclear Generation Duty Roster application. EOF information is under General Office location. {51}

2. Consider hours previously worked prior to ERO activation in determining shift turnover schedules for 24-hour staffing. {69}

_____ Complete 24-Hour Staffing Log for each EOF position, pages 3 through 8 of this enclosure.

_____ Ensure that 24-hour staffing plans are established and maintained for all EOF positions for the duration of the entire emergency. {IER L1-13-10}

_____ **IF** EPZ roadblocks have been established, prepare for emergency worker re-entry using page 12 of this enclosure.

_____ Verify Public Affairs personnel have considered 24-hour staffing by calling the JIC Admin. Manager at 2-0548.

_____ Record EOF Exercise/Drill/Event Duke Energy employee participation as follows:

- ☐ **IF** scheduled drill, activate eRoster program and scan **OR** enter Duke Energy employee ID number.
- ☐ **IF** not a scheduled drill **OR** scanner-inoperable, request participants sign Exercise/Drill/Event/Training Attendance Sheet. {61}

_____ Request Duke Energy participants sign EOF Drill/Event Participation form (EP FAM 3.19 Attachment 29). {61}

_____ Conduct turnover for on-coming shift, if needed.

_____ Upon deactivation of the EOF, forward a copy of the EOF Drill/Event Participation form (EP FAM 3.19 Attachment 29) to each DEC site's Emergency Preparedness Manager.

_____ Upon deactivation of EOF, collect all completed paperwork and forward to appropriate Emergency Preparedness Manager.

_____ Upon deactivation of EOF, complete "EOF Post Event Checklist," page 9 of this enclosure.

EOF DIRECTOR AREA

24-HOUR POSITION EOF STAFFING LOG {33}

	Primary		Relief	
Position	**Name**	***Shift Schedule**	**Name**	***Shift Schedule**
EOF Director				
Assistant EOF Director				
EOF Log Recorder				
EOF Emergency Planner				
Radiological Assessment Manager				
Accident Assessment Manager				

* List hours of coverage: i.e., 0800-2000, or 8am -8pm.

DOSE ASSESSMENT AREA

24-HOUR POSITION EOF STAFFING LOG

	Primary		Relief	
Position	**Name**	***Shift Schedule**	**Name**	***Shift Schedule**
EOF Dose Assessor				
EOF Dose Assessor				
EOF Dose Assessor				
EOF Dose Assessor (HPN)				
Field Monitoring Coordinator				
Radio Operator				

* List hours of coverage: i.e., 0800-2000, or 8am -8pm.

ACCIDENT ASSESSMENT AREA

24-HOUR POSITION EOF STAFFING LOG

	Primary		Relief	
Position	**Name**	***Shift Schedule**	**Name**	***Shift Schedule**
Accident Assessment Interface				
Reactor Physics (As Needed)				
Operations Interface (MNS and CNS only)				

* List hours of coverage: i.e., 0800-2000, or 8am -8pm.

OFFSITE AGENCY COMMUNICATOR

24-HOUR POSITION EOF STAFFING LOG

	Primary		Relief	
Position	**Name**	***Shift Schedule**	**Name**	***Shift Schedule**
Lead EOF Off-Site Agency Communicator				
EOF Off-Site Agency Communicator				
EOF Off-Site Agency Communicator				

* List hours of coverage: i.e., 0800-2000, or 8am -8pm.

EOF SERVICES AREA

24-HOUR POSITION EOF STAFFING LOG

	Primary		Relief	
Position	**Name**	***Shift Schedule**	**Name**	***Shift Schedule**
EOF Services Manager				
EOF Services Admin/Commissary				
EOF Data Coordinator				

* List hours of coverage: i.e., 0800-2000, or 8am -8pm.

Enclosure 6.16

Emergency Planner
Non-Duke Energy Participants
24-Hour Position EOF Staffing Log

Name (Please Print)	Representing Agency

EOF FACILITY POST EVENT CHECKLIST

_____ Obtain copy of TSC/EOF Log Printout.

_____ Retrieve:
- Completed Procedures
- Notes
- Log Sheets

_____ Turn off:

- Video monitors
- Projectors

NOTE:	EOF Services completes Enclosures 13.4 and 13.5 from procedure ST/0/A/4600/086.

_____ Complete applicable enclosures of ST/0/A/4600/086 to replenish procedure inventories
_____ Clean tables off
_____ Put all trash in containers
_____ Erase status boards
_____ Verify all Fax machines have paper supply replenished
_____ Verify all printers have paper supply replenished.
_____ Verify cordless phones are left in cradles to be charged.

Replenish Position Specific Notebooks (1 copy of procedure body and minimum 3 copies of applicable enclosures, checklists and log sheets):

_____ EOF Director (also include minimum 3 copies each of Enclosure 6.2, 6.3 and 6.4)
_____ Radiological Assessment Manager (also include minimum 3 copies each of Enclosures 6.2, 6.3, and 6.4). {24}
_____ EOF Dose Assessor
_____ Field Monitoring Coordinator
_____ Radio Operator
_____ EOF Offsite Agency Communicator (also include 1 copy of EP FAM 3.15 Attachment 3.15.3.3)

_____ Accident Assessment Manager (also include minimum 3 copies each of Enclosures 6.2, 6.3, and 6.4). {24}
_____ Accident Assessment Interface
_____ EOF Operations Interface
_____ Reactor Physics
_____ EOF Emergency Planner
_____ EOF Log Recorder (also include 1 copy of EP FAM 3.15 Attachment 3.15.3.2)
_____ EOF Data Coordinator
_____ EOF Services Manager

MNS SECURITY EVENT, TSC/OSC ASSEMBLED AT EOF CHECKLIST

_____ Notify Energy Center Building Security, 2-1234, that TSC/OSC offsite responders are assembling at EOF. {61}

_____ Request that TSC/OSC responders assemble in EOF break area.

_____ Coordinate selection of first response team that will activate TSC/OSC when Security Event is terminated.

_____ Move first response team into EOF work area to obtain plant status and recovery strategies.

_____ **IF** needed, obtain copies of RP/0/A/5700/012, Activation of the Technical Support Center, (TSC) and RP/0/A/5700/020, Activation of the Operations Support Center (OSC), from the McGuire procedure cabinet.

_____ Determine 24-hour staffing for each TSC/OSC position.

_____ **IF** EOF break area is too crowded, determine whether to send TSC/OSC relief members to Energy Center Cafeteria.

_____ **WHEN** Security Event is terminated and onsite TSC/OSC is to be activated, ensure that first response team to TSC/OSC is briefed prior to dispatch to site.

_____ Send relief TSC/OSC members home, if possible, with their assigned relief time.

MNS BDBEE/ELAP EVENT, TSC/OSC ASSEMBLED AT EOF CHECKLIST {76}

_____ Notify Energy Center Building Security at 2-1234 that TSC/OSC offsite responders are assembling at EOF.

_____ Request that TSC/OSC responders assemble in EOF break area.

_____ Assist TSC Emergency Planner in establishing priorities for transport of MNS ERO personnel to the site.

_____ Assist TSC Emergency Planner in determining 24-hour staffing for each TSC/OSC and alternate TSC/OSC position.

_____ **IF** needed, obtain copies of RP/0/A/5700/012, Activation of the Technical Support Center, (TSC) and RP/0/A/5700/020, Activation of the Operations Support Center (OSC), from the McGuire procedure cabinet.

_____ **IF** EOF break area is too crowded, determine whether to send TSC/OSC relief members to Energy Center Cafeteria.

CNS SECURITY EVENT, TSC ERO ASSEMBLED AT EOF CHECKLIST

_____ Notify Energy Center Building Security, 2-1234, that CNS TSC duty responders are assembling at EOF. {61}

_____ Have CNS TSC responders assemble in EOF break area.

_____ Obtain RP/0/A/5000/020 Enclosure 4.20 from CNS procedure cabinet and distribute to assembled TSC ERO.

_____ **IF** CNS TSC Emergency Planner does not respond within 75 minutes of declaration, assist Assistant TSC Emergency Coordinator with assigned tasks.

_____ **WHEN** decision is made to access Catawba and staff the TSC and OSC, ensure choice of facility (normal or alternate) TSC and OSC is known prior to TSC staff departure. {41}

EMERGENCY WORKER/SPECIAL EQUIPMENT RE-ENTRY AFTER ROAD BLOCKS ARE ESTABLISHED IN THE EPZ

NOTE: TSC Emergency Planner is to work with RP to determine if off going shift will need to leave their personnel vehicles onsite and leave in the relief bus.

1.0 **IF** roadblocks are in place in 10 mile EPZ **AND** affected site's Emergency Planner has asked the EOF to prepare for emergency worker re-entry for on site relief, perform the following:

1.1 Request EOF Services Manager obtain a bus to be used for re-entry of relief workers.

1.2 Coordinate with TSC Emergency Planner to verify re-entry path to be used, working with Field Monitoring Coordinator and Radiological Assessment Manager to ensure the path selected avoids the plume foot print.

1.3 Coordinate with State representative at EOF to contact re-entry county EOC to obtain Highway Patrol escorts for bus.

1.4 Ensure State representative requests county EOC to notify roadblock selected for re-entry with ETA for the bus with Highway Patrol escort.

2.0 **IF** roadblocks are NOT established, inform TSC Emergency Planner access will be normal.

3.0 **IF** roadblocks are in place when special equipment is to be brought to plant, use process in step 1.0 for equipment to pass through roadblock.

Enclosure 6.17

EOF Log Recorder Checklist

NOTE:	Steps in this checklist may be performed in any order appropriate to the specific event conditions or they may be omitted if not applicable.

INITIAL

_____ **IF** reporting to EOF outside your normal work hours, complete a Fitness for Duty Questionnaire.

_____ Don position badge.

_____ Sign in on EOF staffing board.

NOTE:	On the Log Recorder's PC, the PC Screen is Screen 2. The left projector is Screen 1 and the right projector is Screen 3.

_____ Ensure PC is on.

_____ Ensure Projectors are powered up.

_____ Refer to EP FAM Section 3.15, Attachment 3.15.3.2, for WebEOC Logging instructions.

NOTE:	Applications viewed on the three main display screens in the EOF can be controlled by the Log Recorder's PC. The Log Recorder's PC normally controls the left and right projectors only; the Communicator's PC normally controls the center projector. The Log Recorder's PC is designated as Computer 1 and the Communicator's PC is designated as Computer 2.

_____ Setup EOF Director's Area displays as follows:

- **Left Projector** - Facility Log (Remains on Comp 1, PC Screen 1)
- **Center Projector** - Swap projector to Comp 2 (Communicator's Notification Form)
- **Right Projector** - SDS (Remains on Comp 1, PC Screen 3)
  - Launch application from DAE. Application will launch on Log Recorder's monitor.
  - If application opens full screen, click Restore Down button, located to the right of the minimize button.
  - Click top of application screen and hold left mouse button down.
  - Drag application to desired screen.
  - Maximize application.

INITIALS _____ PRINTED NAME _____

NOTE:	1. Incorrect log entries may be corrected by making the needed correction for the specific entry and flagging it as a "corrected item". 2. The EOF Log Recorder should enter EOF specific information and other information as directed by the EOF Director or Assistant EOF Director. 3. Log activities must be detailed enough to "tell the story" if necessary to reconstruct events for the NRC and to have an effective turnover to EOF staff.

_____ Establish official log of all significant EOF activities and EOF Director decisions using WebEOC computer program sufficient to conduct turnover for the on-coming shift.

_____ Log entries should include, but are not limited to, the following examples:

- EOF Director and any change in EOF Director (staffing)
- Time of EOF activation
- Emergency classification, changes in classification, time of declaration
- Protective Action Recommendations
- Approval/transmittal of Emergency Notification Forms
- Approval/distribution of News Releases
- Plant Conditions (Unit 1, 2, and 3):
  - Core Cooling information (i.e., Time To Boiling, etc.)
  - Safety Systems Degraded
  - Power Supply Status
  - Fission Product Barrier Degradation
  - Radiation Releases.
- Procedures in effect and any transition to another procedure
- Actions taken that are not part of an approved procedure
- Any abnormal or unexpected plant response
- Major equipment manipulations
- Major mitigation actions taken
- Site assembly, relocation, or evacuation of all or any part of the plant
- Personnel Injuries
- Facility priorities
- Recovery Action(s) in Progress
- Summary of facilities briefings
- Expected time of next Time-Out
- Any parameter that shows how drill/event is managed (ex. releases, time, communication)

_____ **IF** WebEOC computer program is not available, establish manual log of all significant EOF activities and EOF Director decisions.

_____ **IF** requested by EOF Director, prepare sequence of events list and revise it as necessary.

_____ Maintain EOF Director's Area displays and status boards as directed or needed.

_____ Record established priorities on EOF status board as requested by EOF Director.

_____ Conduct turnover for on-coming shift, if needed.

_____ Print copy of TSC/EOF Log Printout.

_____ Provide all completed paperwork to Emergency Preparedness upon deactivation of EOF.

Enclosure 6.18

EOF Data Coordinator Checklist

NOTE:	Steps in this checklist may be performed in any order appropriate to the specific event conditions or they may be omitted if not applicable.

INITIAL

_____ **IF** reporting to EOF outside your normal work hours, complete a Fitness for Duty Questionnaire.

_____ Don position badge.

_____ Sign in on EOF staffing board.

_____ Establish log of activities sufficient to conduct turnover for on-coming shift.

_____ Verify EOF computer hardware, software, and data display equipment is operational per EP FAM 3.8, EOF Data Coordinator's Reference Manual.

_____ Provide computer support as required:

- Software and hardware applications support
- Data acquisition support
- Communication with TSC Data Coordinator

_____ **IF** another site declares an emergency requiring activation of the EOF for support, obtain three additional computers (laptop or PC) within one hour for use by Accident Assessment Manager, Radiological Assessment Manager, and Offsite Agency Communicators. {62}.

_____ Conduct turnover for on-coming shift, if needed.

_____ Provide all completed paperwork to Emergency Preparedness upon deactivation of EOF.

INITIALS _____ PRINTED NAME _____

Enclosure 6.19

EOF Services Manager Checklist

NOTE:	Steps in this checklist may be performed in any order appropriate to the specific event conditions or they may be omitted if not applicable.

INITIAL

_____ **IF** reporting to EOF outside your normal work hours, complete a Fitness for Duty Questionnaire.

_____ Don position badge.

_____ Sign in on EOF staffing board.

_____ Activate the EOF Services Function by establishing duty function contacts for EOF service areas and post in EOF Service area:

- Administration/Commissary
- Communications (24-hour number is 2-1961)
- Transportation Services
- Risk Management and Insurance
- Procurement

_____ Establish log of activities sufficient to conduct turnover for on-coming shift.

_____ Provide general administrative support and office supplies.

_____ Ensure office equipment is functioning properly.

NOTE:	Personnel without badge access will need to be escorted into the EOF by the Assistant EOF Director, EOF Emergency Planner, EOF Services Manager, or their Mentor. {61}

_____ **IF** needed, provide escorted access to EOF for personnel without badge access, and document names of personnel escorted in log. {62, 73}

_____ Provide food and beverages to meet nutritional needs.

_____ Provide facilities to meet personal needs (dining facilities, toilets, trash receptacles and disposal) as required.

INITIALS _____ PRINTED NAME _____

NOTE:	1.	The INPO phone number may be obtained from the Consolidated Emergency Phone Directory for the Emergency Operations Facility (EOF).
	2.	The INPO Emergency Resources Manual provides a list of contacts at each US commercial nuclear power site, and an emergency equipment list. The INPO Emergency Resources Manual can be found on the INPO Website or the bookcase in the EOF Director's Area.

_____ IF needed, perform the following:

- Request Communications to troubleshoot and repair telephone systems, mobile radios and cell phones.
- Request Transportation Services or others arrange for necessary equipment for movement of materials and personnel.
- Request Transportation Services or others to arrange necessary equipment and personnel for debris removal in order to access the DEC nuclear sites. {IER L1-11-14}
- Obtain accommodations for personnel.
- Request Risk Management and Insurance serve as liaison between Duke Energy and insurance companies in gathering data and establishing claims offices to disburse emergency assistance funds to evacuees.
- Request Procurement coordinate all activities related to the purchase of materials, equipment and services from outside supplies including arranging for transportation and receiving as required.
- Contact INPO for additional resources (human resources, emergency equipment, technical expertise). {75}{IER L1-13-10}
- IF a Beyond Design Basis External Event (BDBEE)/Extended Loss of Offsite AC Power (ELAP) event at MNS, request Transportation Services implement the MNS BDBEE/ELAP ERO Transportation Plan insert to the Fleet Storm EOF Manual. {76}

_____ IF 24-hour staffing is required,

- Notify additional personnel and arrange schedule for continuous support.
- Conduct turnover for on-coming shift.

_____ Ensure that all trash and left over food products are properly contained and arrange for disposal.

_____ Notify Facility Services to clean the EOF following deactivation.

_____ Obtain Procedure ST/0/A/4600/086, Standard Procedure for Periodic Verification of Communication Equipment Operation and Equipment/Supply Inventory, Enclosures 13.4 and 13.5 and complete checklists.

_____ Provide all completed paperwork to Emergency Preparedness upon deactivation of EOF.

_____ Notify duty functions contacts advising that the drill/event has been terminated.

_____ IF needed, perform the following:

- Request Communications secure radio base stations.
- Request Communications return portable communications equipment to storage locations.
- Request Procurement transfer information on outstanding requisitions to normal procurement contacts.
- Request Transportation Services return relocated equipment to original location.
- Request Transportation Services provide transportation home for ERO personnel.
- Request Risk Management and Insurance notify insurance companies of change in drill/event status.

Enclosure 6.20

ESTABLISHING COMMUNICATIONS LINKS BETWEEN MCGUIRE SAMG EVALUATORS

INITIAL

NOTE:	Operations Procedure Support in the TSC will serve as the lead SAMG evaluator and will be assisted by Reactor Engineer and Systems Engineer in the TSC, as well as Accident Assessment Interface in the EOF. OPS Procedure Support is expected to **direct** the other evaluators in what they should be looking at strategically, plus ensure that SAEG-1 is completed appropriately as directed by the guidelines.

_____ **ESTABLISH** communications links between the SAMG evaluators (TSC OPS Procedure Support, TSC Reactor Engineer, TSC System Engineering Manager, and EOF Accident Assessment Interface) by dialing RP spare bridge 9-980-875-4833 (6-party bridge line).

_____ **EVALUATE** using an alternate bridge line listed below if for some reason the RP spare bridge is unavailable or if other communications links are desired or needed. Dial the number listed as desired to determine if that bridge is currently being used. If the desired bridge line is not being used, then the appropriate parties may dial in to use it.

EP Controller bridge (12 - party) 9-980-875-4575

McGuire site bridge (6 - party) 9-980-875-3030
McGuire site bridge (6 - party) 9-980-875-3200

INITIALS _____ PRINTED NAME _____

1. Recovery Guidelines

The Recovery Manager shall be responsible for the following:

☐ 1.1 Initiate RP/0/B/1000/027, Reentry Recovery Procedure.

☐ 1.2 Announce as follows:

"Agreement has been reached between Duke Energy, the State of South Carolina and the NRC that the General Emergency classification is terminated. Recovery Operations are being initiated at the site. Actions are underway to determine when people who have been evacuated from their homes can return. As this information is made available, it will be released to the public."

NOTE:	The offsite recovery organization will stay at the EOF and work with the counties and state if radiological Conditions exist beyond the ONS site boundary. The onsite recovery organization will be established by the Emergency Coordinator.

☐ 1.3 Establish Recovery Organization to handle offsite consequences.

☐ 1.4 Make the following assignments:

Recovery Manager _____

Radiological Assessment Manager _____

Field Monitoring Coordinator _____

Emergency Preparedness Manager _____

EOF Services Manager _____

☐ 1.5 Ensure staffing for long-term operation.

NOTE:	Once recovery has been determined, the emergency notification message forms are no longer used.

☐ 1.6 Confer with SEMD (State Emergency Management Director) regarding work in progress at EOF and determine communication channels and notifications expected.

INITIALS _____ PRINTED NAME _____

☐ 1.7 Consult with each manager regarding activities in progress.

☐ 1.7.1 Radiological Assessment Responsibilities

- Provide ingestion pathway dose assessments
- Provide ongoing communications with DHEC Nuclear Emergency Preparedness
- Evaluate environmental concentrations within the radiological footprint
- Provide technical assistance to Joint Information Center
- Help plan for reactor building purge as needed

☐ 1.7.2 Emergency Preparedness Responsibilities

- Communications to the State and County Management Directors

☐ 1.7.3. EOF Services Manager Responsibilities

- Ensure ANI (insurance) is set up for public inquiry
- Provide services as required

☐ 1.7.4. Joint Information Center Responsibilities

- Providing news releases
- Work with media/public to reduce rumors
- Monitoring information being released by news media

☐ 1.8 Maintain Emergency Operations Facility activated and staffed until consensus is reached by Duke Energy and State of South Carolina there is no basis for continuous staffing.

☐ 1.8.1 Record time and date that Emergency Operations Facility/Joint Information Center were closed.

A. EOF/JIC Closed _____
Time/Date

Keowee Hydro Project Dams/Dikes
Condition A/B Descriptions

NOTE:	• Duke Energy Hydro Group personnel are responsible for evaluation/inspection of Keowee Hydro Project Dams/Dikes **AND** determining if a Condition A or B exists.
	• Duke Energy Hydro Group personnel will communicate the results of evaluations/inspections to the Keowee Hydro Operator. The Keowee Hydro Operator will notify the OSM.

1. Condition A - Failure is Imminent or has occurred

A failure at the dam has occurred or is about to occur and minutes to days may be allowed to respond dependent upon the proximity to the dam. Response includes the immediate movement of downstream residents to higher ground. State and local governments will be notified. (Duke Energy Hydro-Electric Plant EAP)

INITIALS _____ PRINTED NAME _____

2. Condition B - Potentially Hazardous Situation is Developing

A situation where failure may develop, but preplanned actions taken during certain events (such as major floods, earthquakes, evidence of piping) may prevent or mitigate failure. The potentially hazardous situation may allow days or weeks for response and time to take remedial action. (Duke Energy Hydro-Electric Plant EAP)

The following situations will result in a Condition B determination/declaration:

- Reservoir elevation at Keowee Hydro Station is ≥805.0 ft msl with all spillway gates open and lake elevation continuing to rise.
- Situations involving earth dam or abutments as follows:
  - a) Large increase or decrease in seepage readings OR seepage water is carrying a significant amount of soil particles;
  - b) New area of seepage or wetness, with large amounts of seepage water observed on dam, dam toe, or the abutments;
  - c) A slide or other movement of the dam or abutments which could develop into a failure.
- Developing failure involving the powerhouse or appurtenance structures is highly irregular to the point where the operator feels safety of the structures is questionable.
- Developing failure involving the concrete spillway or bulkhead is unusual and the safety of the structure is questionable.
- Any other situation involving plant structures which shows the potential for a developing failure.

_____ **IF** conditions **DO NOT** allow for a controlled relocation of the facility, perform immediate actions to protect personnel.

A. Notify personnel to re-assemble
- Mint Street Parking Deck (Primary)
- Firebird Statue in front of Bechtler Museum (Alternate) {80}

B. Notify the TSC Emergency Coordinator of actions taken
- Catawba 803-701-5870
- McGuire 980-875-4950
- Oconee 864-873-3921 {80}

_____ **IF** conditions allow for a controlled relocation of the facility, determine alternate EOF location:

☐ Catawba Event - McGuire Alternate TSC

☐ McGuire Event - Catawba Alternate TSC

☐ Oconee Event - Catawba Alternate TSC

_____ Request EOF Emergency Planner to obtain the following:

- 24-Hour Position EOF Staffing Log
- EOF Business Continuity Plan
- Catawba, McGuire, and Oconee Emergency Telephone Directories
- ERO Member Contact Information notebook {74}

_____ Announce to EOF personnel to exit EOF and move to assembly area with all their procedures and paperwork.

- Mint Street Parking Deck (Primary)
- Firebird Statue in front of Bechtler Museum (Alternate){80}

_____ Consider the need to escort NRC and offsite agency personnel from EOF to alternate EOF. {74}

_____ Turn over command and control of event to TSC Emergency Coordinator.

- Notify TSC Emergency Coordinator that EOF is evacuating due to (state reason)
  - Catawba 803-701-5870
  - McGuire 980-875-4950
  - Oconee 864-873-3921{80}
- Provide TSC Emergency Coordinator current emergency classification and EAL number, current Protective Action Recommendations, and status of Emergency Notifications: Message number _____ due at _____

_____ Request the EOF Emergency Planner call the TSC Emergency Planner to request he call the unaffected site's control room and make them aware of the EOF relocation. {74}

NOTE: The following actions are taken after exiting the EOF.

_____ Request leads in each EOF functional area perform accountability of EOF personnel using 24 hour EOF Position Staffing Log.{80}

_____ Consult with Enterprise Security console personnel at 704-382-1234 to determine expected duration of EOF evacuation.

_____ **IF** expected duration of evacuation is greater than 2 hours or unknown, perform the following:

- Direct EOF Personnel to report to the Alternate EOF Location
  - Catawba Alternate TSC

    Catawba Nuclear Station Administration Building (Building 7720)
    4800 Concord Road
    York, SC 29745-9635
  - McGuire Alternate TSC

    McGuire Nuclear Station Administration Building (Building 7438)
    12700 Hagers Ferry Road
    Huntersville, NC 28078-9340 {80}
- Inform the TSC Emergency Coordinator that EOF is relocating to Alternate EOF Location
- Request TSC notify NRC of EOF relocation

_____ Direct EOF Emergency Planner to conduct actions required by EOF Business Continuity Plan.

_____ Return to Enclosure 6.1 of this procedure after reporting to Alternate EOF.

NOTE: Items listed here are suggested topics for routine update briefings (not all topics need be addressed at each briefing). Items actually selected should be based on existing or projected plant conditions and current priorities.

Attributes of Excellent Briefings	
• 5-10 minutes duration • Brief for status, not to solve problems • Crisp, focused and well controlled	• Speak to be heard (use PA if needed) • Repeat back required actions • ALL personnel are attentive

1. EOF Director (open and lead briefing)

- Pre-announce -- 5 minute warning brief is about to occur
- Start Briefing by stating "Attention in the EOF," observe participants to confirm they are ready
- Overview of emergency conditions
- Station priorities
- Offsite actions being taken
- NRC activities related to emergency

Notes:_____

2. Assistant EOF Director

- Facility staffing issues and status of additional support requested
- Facility operations expectations (noise levels, procedure use, log keeping, etc.)
- Status of offsite agency communications
- Status of relief shift

Notes:_____

3. Accident Assessment Manager

- Current Emergency Classification and EAL number/description
- Key parameters/potential paths for Emergency Classification Upgrade
- Reactor condition, core damage assessment.
- Review of key plant conditions (power level, shutdown, trends)
- Fission Product Barrier Status, trends, prognosis
- Core Cooling System Status
- Emergency/abnormal procedures entered or exited
- Severe accident guideline status
- Status of NRC Communications

Notes:_____

4. Radiological Assessment Manager

- Status of radiological release compared to EAL thresholds, dose projections, offsite radiological conditions, PARs.
- Meteorological conditions
- Field Monitoring Team reports
- Radiation Protection problem areas being worked and/or needing resolution
- Chemistry activities and results. (e.g. dose equivalent iodine, sample status)

Notes:_____

5. Emergency Planner

- IF a security event is in progress, plant access restrictions, status of site security, offsite Local Law Enforcement Agencies assistance requested and/or provided
- IF a medical emergency response (MERT) is in progress, number of victims, whether radiologically or chemically contaminated, offsite EMS response
- IF a fire response is in progress, status of fire, offsite FD response
- Status of site assembly and site evacuation

Notes:_____

6. Offsite Agency Communicator

- Status of offsite agency communications and time next message due

Notes:_____

7. EOF Log Recorder

- Items of interest from TSC Log
- TSC Priorities

Notes:_____

8. Corporate Communications

- Status of news releases and press conferences
- Rumors being addressed
- Internal/External notifications made (Duke Energy leadership team, ECOC, JIC, state government, INPO, ANI)

Notes:_____

9. EOF Director (close briefing)

- IF offsite agencies representatives are present, provide them with opportunity to contribute to brief
- IF the NRC is present, provide them with opportunity to contribute to brief
- Ask if any others need to report "Important information"
- Summarize priorities
- Ask if there are any questions
- State "END OF BRIEF"

Enclosure 6.25

Setup of Catawba Alternate EOF in McGuire Admin Bldg.

INITIAL

_____ **IF** cell phones with headsets can be obtained from McGuire TSC, take them to alternate EOF location (Administration Building layout on Page 3 of 3 of this enclosure).

_____ Locate assigned Administration Building area shown on the layout drawing on Page 3 of 3 of this enclosure

NOTE:

1. Alternate TSC phone sets are stored in the CRX Equipment Room, Room 112.
2. The EOF Emergency Planner and EOF Data Coordinator can assist with phone and computer connections.
3. **IF** a computer is needed, a computer that is not being used for another ERO function (e.g., Regulatory Compliance section, Business Management group, Human Resources group) may be used.
4. **IF** access to the CBX equipment Room, Room 112, is needed prior to the arrival of the EOF Emergency Planner, a key to the door can be obtained from Security at the SAS.
5. Printer paths for McGuire Nuclear Station Administration Building Mail Room Printers are MNADM106 and MNADMDP1.

_____ Set up assigned location as follows:

_____ • Obtain phone equipment necessary to conduct ERO function at assigned location and connect to wall and ceiling outlets.

_____ • **IF** a computer is needed, request help from EOF Data Coordinator.

_____ • **IF** necessary, obtain copies of position procedure enclosure from procedure SR/0/B/2000/003, Activation of the EOF, located in Emergency Preparedness Procedures cabinet.

_____ • **IF** printing capability is needed, setup printers using DAE Printer Selector Program.

INITIALS _____ PRINTED NAME _____

_____ • **IF** copies of plant procedures are required, perform one of the following:

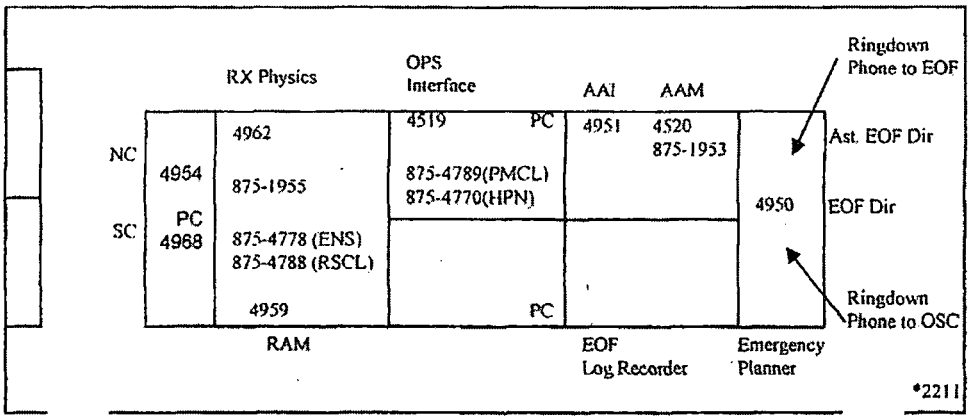
- For Emergency Plan Implementing Procedures (RPs, SHs, and SRs), make copy from Control Copy located in Emergency Preparedness Procedures cabinet.

- For all other procedures, print a copy from NEDL Portal on DAE using McGuire Admin Building Mail Room printer MNADM106 or MNADMDP1.

_____ • Assume or continue ERO role according to procedure SR/0/B/2000/003, Activation of the EOF.

Setup of Catawba Alternate EOF in McGuire Admin Bldg.

(Executive Board Room 111, Admin. Building)



Other EOF Position Locations

- Others (EP Room 114) - *4458, *4977, *875-1951.
- Offsite Communicator (EP Room 115B -- *4970, *SSN 315, *Radio, *875-1951.
- Data Coordinator (CBX Equipment Room 112) -- *4999.
- Dose Assessor (SCR Room 100D) -- *4405.
- Offsite Monitoring (McGuire TSC) *4969, *4976
- Public Affairs (Rooms 118 and 141) -- *4400, *4402, *4233.
- NRC (NRC Office, Room 126) -- *875-1681.
- Other, use Jaguar Room as needed (Room 144, EOF Services Mgr.) -- *4826.

Office Equipment

- FAX (Mail Room, Room 116) -- *875-4506.
- FAX (EP Room 114) -- *875-4382.
- Copier (Mail Room, Room 116).
- Copier (SA Room 170).
- CBX (CBX Office in Admin. Building Lobby).

* Indicates existing phones. All others are to be plugged in when the Alternate TSC is activated.

Enclosure 6.26

Setup of McGuire or Oconee Alternate EOF in Catawba Admin Bldg.

INITIAL

_____ **IF** cell phones with headsets can be obtained from Catawba TSC, take them to alternate EOF location (Administration Building layout on Page 2 of 3 of this enclosure).

_____ Locate assigned Administration Building area shown on the layout drawing on Page 2 of 3 of this enclosure

NOTE:	1. The EOF Emergency Planner and EOF Data Coordinator can assist with computer connections. 2. **IF** a computer is needed, a computer that is not being used for another ERO function (e.g., Regulatory Compliance section, Performance Improvement Team, Human Resources group) may be used. 3. Printer paths for Catawba Nuclear Station Administration Building Printers are CNSADM2 for Copier Room (Room 143) and CNADM127 for Room 127.

_____ Set up assigned location as follows:

_____ • **IF** a computer is needed, request help from EOF Data Coordinator.

_____ • **IF** necessary, obtain copies of position procedure enclosure from procedure SR/0/B/2000/003, Activation of the EOF, located in Emergency Preparedness procedures cabinet.

_____ • **IF** printing capability is needed, setup printers using DAE Printer Selector Program.

_____ • **IF** copies of plant procedures are required, perform one of the following:

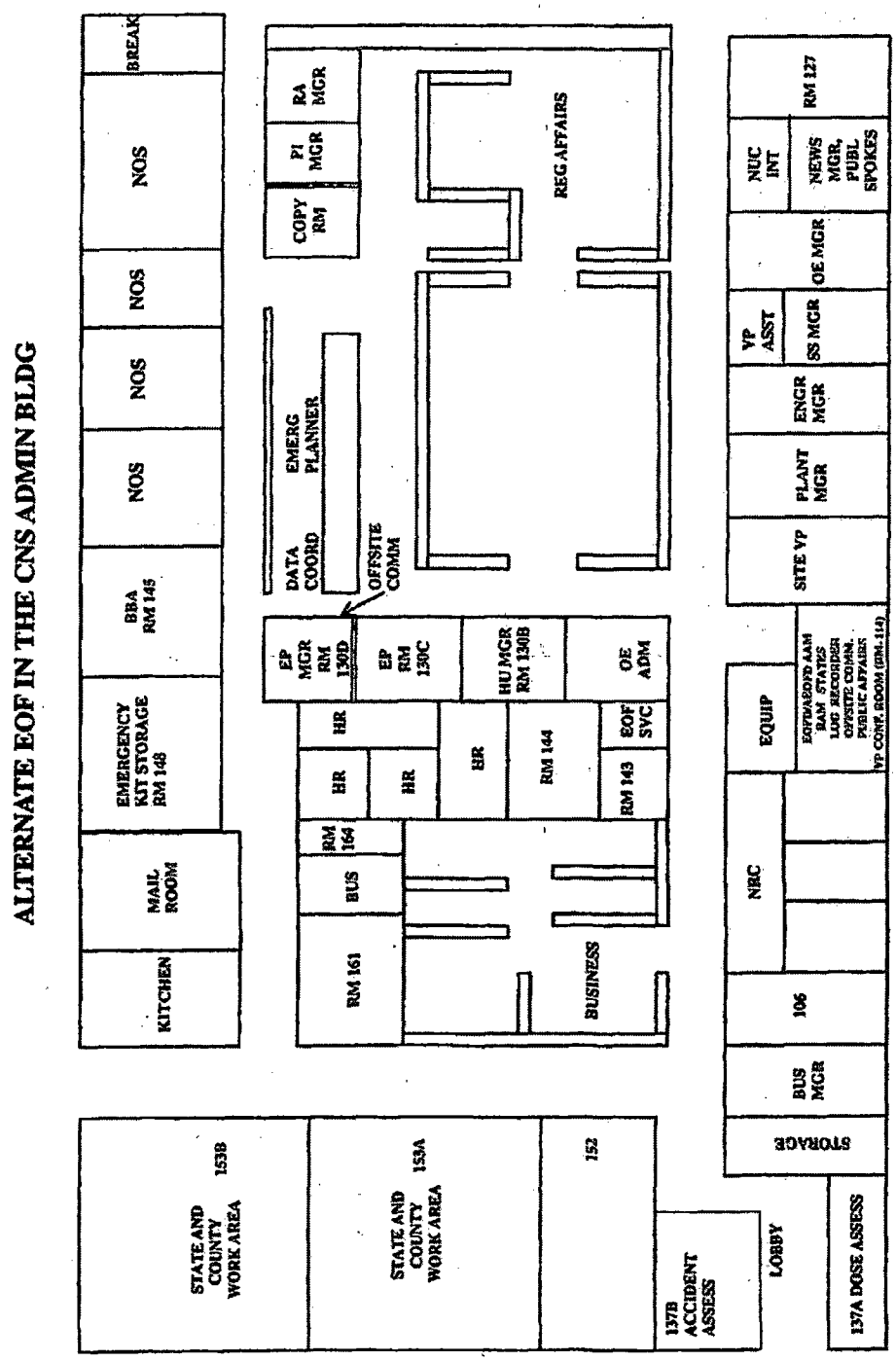
- For Emergency Plan Implementing Procedures (RPs, SHs, and SRs), make copy from Control Copy located in Emergency Preparedness Procedures cabinet.
- For all other procedures, print a copy from NEDL Portal on DAE using Catawba Admin Building Mail Room printer CNSADM2.

_____ • Assume or continue ERO role according to procedure SR/0/B/2000/003, Activation of the EOF.

INITIALS _____ PRINTED NAME _____

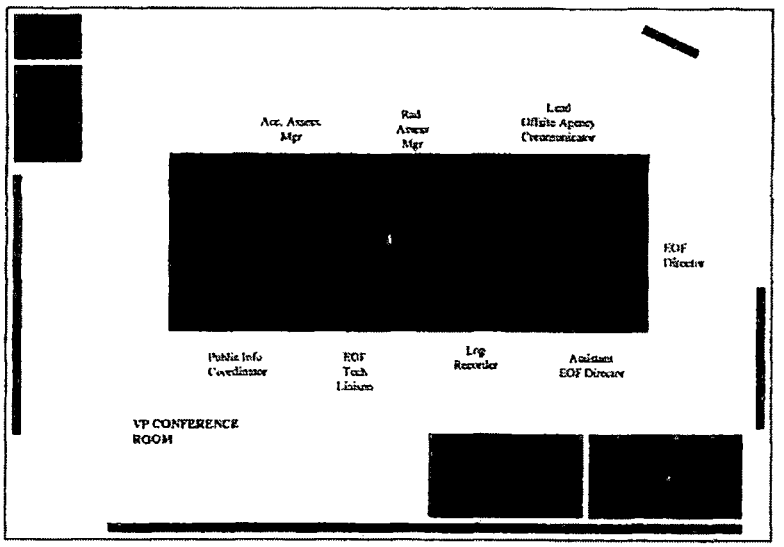
Enclosure 6.26

Setup of McGuire or Oconee Alternate EOF in Catawba Admin Bldg.



Enclosure 6.26

Setup of McGuire or Oconee Alternate EOF in Catawba Admin Bldg.



EOF Functional Areas:

VP Conference Room – Command & Control Center (EOF Director, Accident Assessment Manager, Rad Assessment Manager, Lead Offsite Agency Communicator, EOF Log Recorder, EOF Tech Liaison, Public Information Coordinator, State EM Representatives) EP Manager's Office – Offsite Communicators EP Cubes – Data Coordinator, EOF Emergency Planner Touchdown Room 142 - EOF Services PA Manager Office - News Manager, Public Spokesperson
Room 153 A/B - State and County Work Area
NRC Resident Inspector Offices - NRC Site Team
Room 137A - Dose Assessment Room 137B - Accident Assessment Catawba TSC (Not Shown) - Offsite Monitoring

Enclosure 6.27

NRC Response Team Briefing

A) Emergency Classification

Time Declared: _____am/pm (Current Class)

Unusual Event Alert

Site Area Emergency General Emergency

EAL Descriptor Text: _____

_____

_____

Provide a brief summary of the event and mitigating actions in progress: _____

_____

_____

_____

_____

_____

_____

_____

B) Fission Product Barrier Status

	Fuel	RCS	CTMT
Intact:			
Potential Loss:			
Lost:			

C) Plant Conditions

Mode 1 - Power Operations _____ %

Mode 2 - Startup

Mode 3 - Hot Standby

Mode 4 - Hot Shutdown

Mode 5 - Cold Shutdown

Mode 6 - Refueling

Time of shutdown: _____ am/pm

Stable Improving

Unstable Deteriorating

Briefly describe equipment, instrument or other problems: _____

_____

_____

_____

_____

_____

_____

_____

_____

D) Radiological Release

None **or**

Imminent Controlled

In Progress Uncontrolled

Terminated Start Time:___am/pm

Estimated Duration: _____

E) Onsite Protective Actions

None **or**

Site Assembly / Accountability

Local Area Evacuation

Protected Area Evacuated

Site Evacuated

Offsite Assembly

Emergency Exposures Authorized

Potassium Iodide Issued

F) Response Facilities Activated

None **or**

Technical Support Center

Operations Support Center

Emergency Operations Facility

Joint Information Center

G) Offsite Assistance Requested

None **or**

Medical _____ am/pm

Fire Department _____ am/pm

Law Enforcement _____ am/pm

H) Offsite Notifications

County INPO

State ANI

News Release

I) Protective Action Recommendations

None **or**

Evacuate: _____

Shelter: _____

J) Offsite Actions/Response

None issued, **or**:

Schools Recreation Areas

Other: _____

_____

_____

Evacuate: _____

Shelter: _____

Underway -- OR -- Completed

K) Additional Notes

_____
_____
_____
_____
_____
_____

NOTE: This briefing is intended to provide general information related to the event. More detailed information will be available from individual licensee counterparts.

Additional Discussion Items:

1. Personnel safety (as applicable)
   a. Personnel accountability requirements
   b. Radiation protection requirements
   c. Industrial safety requirements
   d. Protective equipment requirements
   e. Reporting emergency situation (e.g., fire/medical
2. Emergency evacuation
   a. Location of exits
   b. Location of emergency assembly areas
3. Personal comfort
   a. Location of restrooms
   b. Location of water, beverages, and food
   c. Location of quiet area
4. Facility specific information
   a. Prohibited activities (e.g., use of cell phones, cameras, cordless phones, etc.)
   b. Facility telephones (how to call outside the facility, reserve phones, etc.)
   c. Telephone numbers (e.g., response facility phone directory/phone listing)
   d. Reference locations and access
   e. Making photo copies
   f. Sending/receiving facsimiles
   g. Logistical assistance/support

{1} PIP 0-M97-4210 NRC-1

{2} PIP 0-M96-1645

{3} PIP 2-C96-0273

{4} PIP 0-C98-3123

{5} PIP 0-M98-3522

{6} PIP 0-M98-2065

{7} PIP 0-C00-3830

{8} PIP 0-M99-3800, DocTracks NGO-2012-000119

{9} PIP M-99-2593

{10} PIP M-00-1107

{11} PIP G-02-00399(deleted Meteorologist Checklist, replaced with new enclosure)

{12} PIP M-01-3565

{13} PIP M-01-3711

{14} PIP M-99-5381

{15} PIP C-02-5851

{16} PIP G-02-00360

{17} N/A

{18} PIP M-02-2412, C.A.17

{19} PIP M-03-2174

{20} Deleted

{21} PIP M-03-2808, C.A. 1

{22} PIP M-03-3294, C.A. 10

{23} PIP G-03-606

{24} PIP M-04-2742, C.A. 10

{25} PIP C-04-1367, C.A. 9

{26} PIP-M-03-2538, C.A. 3

{27} PIP-M-03-3483, C.A. 1

{28} PIP-M-03-3294, C.A. 21

{29} PIP-C-04-2486, C.A. 2

{30} PIP-C-03-4471, C.A.1

{31} Deleted

{32} PIP-M-04-0735, C.A. 10

{33} PIP-M-04-0238, C.A.2

{34} Deleted

{35} PIP-M-05-3631

{36} PIP-C-05-4854

{37} PIP-C-05-2064, C.A. 11

{38} PIP-C-06-3808, CA. 9

{39} PIP-G-07-0127

{40} PIP-C-04-2631, C.A.2

{41} PIP-C-06-6053, C.A.11

{42} PIP-C-06-8633, C.A.6

{43} PIP-M-06-5137, C.A.3

{44} PIP-G-07-0944, C.A. 4

{45} PIP-G-07-0959, C.A. 12

{46} PIP-C-05-2064, C.A. 12

{47} PIP M-07-3471, C.A. 6

{48} PIP G-08-1053, C.A. 4

{49} PIP C-09-3308, C.A. 3

{50) PIP M-09-2521, C.A. 15

{51} PIP M-09-4514, C.A. 19

{52} PIP G-09-1159, C.A. 11

{53} PIP G-08-1195

{54} PIP G-09-0697, C.A. 2

{55} PIP M-10-3598, C.A. 25

{56} PIP O-10-2906

{57} PIP M-10-3598, C.A. 21

{58} PIP O-10-6861, C.A. 4

{59} PIP G-10-1128, C.A. 1

{60} PIP O-10-11050, C.A. 21

{61} PIP G-11-1177, DocuTracks NGO-2012-000122

{62} PIP M-11-6252, C.A. 2

{63} PIP O-10-11050, C.A. 23

{64} PIP G-11-1389, C.A. 11

{65} PIP C-11-4972, C.A. 1

{66} PIP G-11-1352, C.A. 6

{67} PIP G-12-0276, C.A. 2

{68} PIP G-12-1158, C.A. 2, 4, and 7

{69} PIP C-12-3794, C.A. 4

{70} PIP G-12-1057, C.A. 3

{71} PIP G-10-0955

{72} PIP G-13-0488

{73} PIP M-13-7757

{74} PIP G-13-1838

{75} PIP G-13-1461, C.A. 19

{76} PIP M-12-2339, C.A. 34

{77} IER L1-13-10

{78} IER L1-11-14

{79} PIP G-14-0577

{80} PIP G-14-2208

{81} PIP G-14-2211

Duke Energy Standard Procedure for CNS, MNS & ONS **Notification to States and Counties from the Emergency Operations Facility for Catawba, McGuire and Oconee**	Procedure No. **SR/0/A/2000/004** Revision No. **003** Electronic Reference No. **SHR0005Q**

PERFORMANCE

* * * * * * * * * * UNCONTROLLED FOR PRINT * * * * * * * * * *

(ISSUED) - PDF Format

Notifications to States and Counties from the Emergency Operations Facility

1. Purpose

1.1 This procedure describes the instructions for the prompt notification of State and Local response organizations in the event of a declared emergency at a Duke nuclear station.

2. Definitions

2.1 Initial Notification: The first notification made to offsite response organizations upon declaration of any emergency classification or upgrade in classification (Notification of Unusual Event, Alert, Site Area Emergency, or General Emergency).

2.2 Follow-up Notifications: Periodic notifications to provide update information to offsite response organizations following an Initial Notification. (Enclosure 6.1 (Emergency Notification Form (ENF) Completion) Step 1)

2.3 Termination Notification: The last notification sent to offsite response organizations communicating termination of the emergency.

2.4 WebEOC: An electronic emergency response communication system used to provide information within the licensee's emergency response facility and can be used as an option to provide information to offsite response organizations.

2.5 Emergency Notification Form (ENF): The document prepared by the licensee to communicate Initial and Follow-up Notifications to the offsite response organizations.

2.6 Other Information: Information not directly associated with the event, but important to communicate to offsite response organizations as part of the Initial or Follow-up Notifications.

2.7 Selective Signaling System: The primary communication method used by the licensee to communicate emergency information to offsite response organizations. The selective signaling system provides an open line capable of simultaneously connecting all offsite response organizations. The line is always active and there is no dial tone.

2.8 Authentication Code: A controlled list of numbers and corresponding words provided by the state(s) to "authenticate" communications between various parties. The authentication code provides assurance to the communication "*receiver*" that information from the "*transmitter*" is valid. Message authentication is only required if the message transmission is via a method other than the Selective Signaling System.

3. Procedure

NOTE:	1. Steps of this procedure may be performed out of sequence at the discretion of the communicator.
	2. All notifications are expected to be accurate and timely. If an error is discovered after information has been communicated, immediately (< 15 minutes) correct the information using a follow-up notification. Corrected PARs should be discussed immediately with local emergency management officials using the decision line or other agency communications means. The decision to act upon the corrected information is made by the off-site agencies.
	3. The first Offsite Agency Communicator to arrive should begin to perform the procedure regardless of which role they expect to perform.

☐ 3.1 Obtain position notebook from book shelf in EOF Director's area.

☐ 3.2 Ensure SR/0/A/2000/003 Enclosure 6.10 (EOF Offsite Agency Communicator Checklist) is completed.

☐ 3.3 Circle which Site has declared the Emergency, i.e., **McGuire or Catawba or Oconee**.

☐ 3.4 Power up/check printers, fax machines, copiers, PC, etc.

☐ 3.5 Log on to WebEOC, referring to EP FAM 3.15 Enclosure 3.15.3.3, as needed.

☐ 3.6 Acquire turnover information using Enclosure 6.9 (Turnover Checklist), as follows:

- **IF** TSC has activated, contact affected site(s) TSC Offsite Communicator.
- **IF** emergency situation prevents activating TSC within 75 minutes of declaration, contact affected site(s) Control Room.

☐ 3.7 Provide copies of previously transmitted message forms to:

- ☐ All positions in EOF Director's area.
- ☐ Wall Folder (4 copies).

☐ 3.8 Obtain a copy of Authentication Code list from:

☐ Catawba – the Catawba procedure cabinet in the EOF Director's area.

☐ McGuire - the McGuire procedure cabinet in the EOF Director's area.

☐ Oconee - the Oconee procedure cabinet in the EOF Director's area.

☐ 3.9 Update Status Boards in EOF with information from Step 3.6 (i.e., next message due, etc.).

- EOF Director's Area
- Offsite Agency Communicator's Area.

☐ 3.10 Inform EOF Director, Accident Assessment Manager and Radiological Assessment Manager when next notification is due.

☐ 3.11 Review appropriate enclosure for your role:

- Enclosure 6.5, Lead Offsite Agency Communicator Duties
- Enclosure 6.6, ENF Communicator Duties
- Enclosure 6.7, Telephone Communicator Duties

☐ 3.12 Ensure EOF will have adequate time to develop and provide next notification before EOF Director activates EOF.

☐ 3.13 **WHEN** EOF Communicators are prepared to accept communication responsibilities from site, notify EOF Director.

☐ 3.14 **WHEN** EOF activated:

☐ 3.14.1 Contact site to inform them that EOF has responsibility for emergency notifications.

☐ 3.14.2 Prepare for next ENF transmission.

☐ 3.15 Complete ENF using Enclosure 6.1 (Emergency Notification Form Completion).

☐ 3.16 Send ENF using Enclosure 6.2 (Emergency Notification Form (ENF) Transmission).

4. References

4.1 Catawba Nuclear Station (CNS) Emergency Plan

4.2 McGuire Nuclear Station (MNS) Emergency Plan

4.3 Oconee Nuclear Station (ONS) Emergency Plan

4.4 AD-EP-ALL-0102, WebEOC® Maintenance and Administration

4.5 AD-EP-ALL-0202, Emergency Response Offsite Dose Assessment

5. Records

_____ 5.1 Ensure all checklists, logs and forms completed as the result of implementing this procedure are collected at the end of the event and provided to the EOF Emergency Planner.

_____ 5.2 Ensure EOF Director signs "Procedure Completion Approved"

6. Enclosures

6.1 Emergency Notification Form (ENF) Completion

6.2 Emergency Notification Form (ENF) Transmission

6.3 Authentication Guideline

6.4 Fax Instructions

6.5 Lead Offsite Agency Communicator Duties

6.6 ENF Communicator Duties

6.7 Telephone Communicator Duties

6.8 Emergency Notification Form Quick Reference

6.9 Turnover Checklist

Emergency Notification Form (ENF) Completion

☐ 1. Review the following criteria for notifications.

Initial Notifications

1. Initial notifications to the State(s) and counties must be made within 15 minutes of event declaration.

2. For upgrade in classification prior to or while transmitting initial message:
   -Notification for lesser emergency classification must be made within 15 minutes of lesser classification declaration time.
   -Agencies must be informed that an upgrade in classification will be coming.
   -Upgraded classification message must be transmitted within 15 minutes of upgraded classification declaration time.

Follow-up Notifications

1. Follow-up notifications to State(s) and Counties must be made as follows:

Catawba	McGuire	Oconee
-For NOUE, ALERT, SAE, or GE, every hour until emergency is terminated.	-For NOUE, every 4 hours until emergency is terminated. -For ALERT, SAE, or GE, every hour until emergency is terminated.	-For NOUE, a follow-up is not required. -For ALERT, SAE, or GE, every 60 minutes until emergency is terminated.

OR

Catawba	McGuire	Oconee
-If there is any significant change to the situation, make notification as soon as possible. See NOTE* below for examples.	-If there is any significant change to the situation, make notification as soon as possible. See NOTE* below for examples.	-If there is any significant change to the situation, make notification as change occurs. See NOTE* below for examples.

OR

Catawba	McGuire	Oconee
-As agreed upon with an Emergency Management official from each individual agency. Documentation shall be maintained for any agreed upon schedule change. -Interval shall not be greater than 4 hours to any agency.	-As agreed upon with an Emergency Management official from each individual agency. Documentation shall be maintained for any agreed upon schedule change. -Interval for ALERT, SAE, and GE shall not be greater than 2 hours to any agency.	-Required every 60 minutes from notification time on Line 2 for ALERT, SAE, or GE. -This frequency may be changed at the request of offsite agencies.

*NOTE: Examples of significant plant changes include: evacuation/relocation of site personnel, fires onsite, MERT activation and/or injured personnel transported offsite, start/stop of a release, chemical spills, explosions, any event that would cause or require offsite agency response, or Condition "A" or "B" for Keowee Hydro Project Dams/Dikes (Oconee only).

2. IF follow-up is due and an upgrade to higher classification is declared, do not complete follow-up ENF. Offsite agencies must be notified that follow-up is being superseded by upgrade to a higher classification and information will be provided.

3. Initial messages in General Emergency classification that provide upgrade in PARs shall be communicated to offsite agencies as soon as possible and within 15 minutes.

2. Complete Emergency Notification Form (ENF):

☐ 2.1 **IF** WebEOC available, access WebEOC ENF per EP FAM 3.15, (Attachment 3.15.3.3). **GO TO** Step 2.4

☐ 2.2 **IF** using pre-printed ENF, obtain preprinted ENF for event declared. **GO TO** Step 2.4

- ☐ Catawba
- ☐ McGuire
- ☐ Oconee

☐ 2.3 **IF** using blank ENF, obtain blank ENF:

- ☐ Catawba
- ☐ McGuire
- ☐ Oconee

NOTE: Messages are sequentially numbered throughout drill/event. The first message for a drill/event is message number 1.

2.4 Complete Line 1 as follows:

☐ 2.4.1 Select or mark A for Drill or B for Actual Event.

☐ 2.4.2 Ensure or record appropriate message number.

☐ 2.4.3 **IF** termination message, **GO TO** Step 2.6.

NOTE: Notification Time, Date, and Authentication Number will be completed during message transmission from the WebEOC Emergency Notification Fax Management panel.

☐ 2.5 On Line 2 select or mark appropriate box for:

☐ 2.5.1 A **Initial**

☐ 2.5.2 B **Follow-up**

☐ 2.5.3 Leave NOTIFICATION: TIME and DATE blank.

☐ 2.5.4 Leave AUTHENTICATION # blank.

☐ 2.6 Complete Line 3

☐ 2.6.1 Record or ensure appropriate Site.

☐ 2.6.2 Record, select, or ensure appropriate confirmation telephone number.

☐ 2.6.3 **IF** termination message, **GO TO** Step 2.14.

☐ 2.7 Complete Line 4 (Data provided by Accident Assessment Manager (AAM)).

☐ 2.7.1 Select, record or verify correct emergency classification.

☐ 2.7.2 Select, record or verify correct Emergency Action Level (EAL) number.

☐ 2.7.3 Record or verify correct EAL description.

NOTE: **Condition A** - Failure is Imminent or has Occurred - A failure at the dam has occurred or is about to occur, and minutes to days may be allowed to respond, dependent upon the proximity to the dam. Response includes the immediate movement of downstream residents to higher ground. State and local governments will be notified. (Duke Hydro-Electric Plant EAP)

☐ 2.8 Complete Line 5 (Data provided by RAM)

☐ 2.8.1 **IF** Notification of Unusual Event **OR** Alert, check or verify A (None) is selected **AND GO TO** Step 2.9.

☐ 2.8.2 **IF** Site Area Emergency for Catawba **OR** McGuire, check or verify A (None) is selected **AND GO TO** Step 2.9.

☐ 2.8.3 **IF** Site Area Emergency for Oconee **AND NO** Condition A exists for Keowee Hydro Project Dam/Dike, check or verify A (None) is selected **AND GO TO** Step 2.9.

☐ 2.8.4 **IF** Site Area Emergency for Oconee **AND** a Condition A exists for Keowee Hydro Project Dam/Dike, **GO TO** Step 2.8.6.

☐ 2.8.5 **IF** General Emergency, record Protective Action Recommendations as directed by RAM.

> **WARNING:** Once a zone is accurately selected for evacuation, it should not be removed.

☐ A. Verify, select or mark [B] (Evacuate) **AND** verify, select or record zones for evacuation.

☐ B. Verify, select or mark [C] (Shelter) **AND** verify, select or record zones for sheltering.

☐ C. **IF** dose projections or field measurements indicate Thyroid dose will be equal to or greater than 5 Rem, verify, select or mark box [D]. {PIP-G-03-606}

☐ D. For any other Protective Action Recommendations, select or mark [E] (Other) **AND** record information.

☐ 2.8.6 **IF** Condition A exists for Keowee Hydro Project Dam/Dike:

☐ A. Verify, select or record [B] (Evacuate) **AND** select or record *Move residents living downstream of the Keowee Hydro Project dams to higher ground.*

☐ *B.* Verify, select or record [E] (Other) **AND** select or record *Prohibit traffic flow across bridges identified on your inundation maps until the danger has passed.*

> **NOTE:** An Emergency Release is an unplanned, quantifiable radiological release to the environment during an emergency event. The release does not have to be related to the declared emergency. {AD-EP-ALL-0002}

☐ 2.9 Complete Line 6 (Data provided by RAM)

☐ 2.9.1 **IF** release not in progress or has not occurred, verify, select or mark [A] (None)

☐ 2.9.2 **IF** there is indication of an emergency release in progress, verify, select or mark [B] (Is Occurring)

☐ 2.9.3 **IF** a release has occurred but is no longer in progress, verify, select, or mark [C] (Has Occurred)

NOTE: A current dose run may not be available and is not required for initial notifications.

☐ 2.10 Confer with Radiological Assessment Manager (RAM) to determine whether current dose run is to be imported.

☐ 2.10.1 **IF** current dose run is **NOT** to be imported, **GO TO** step 2.11.

☐ 2.10.2 Select "Import Dose Projection Data" button at bottom of ENF.

☐ 2.10.3 Verify imported information is correct on Lines 7, 14, 15 and 16.

☐ 2.11 Complete Line 7 (Data provided by RAM)

☐ 2.11.1 **IF** release not in progress or has not occurred, verify, select or mark A (Not applicable) **AND GO TO** Step 2.12.

☐ 2.11.2 **IF** release has occurred, verify, select or mark A (Not applicable) **AND GO TO** Step 2.12.

☐ 2.11.3 **IF** release significance is known, verify, select or mark B (Within normal operating limits) **OR** C (Above normal operating limits) **AND GO TO** Step 2.12.

☐ 2.11.4 **IF** release significance is unknown, verify, select or mark D (Under Evaluation).

☐ 2.12 Complete Line 8 by selecting or marking appropriate block (Data provided by Accident Assessment Manager:

A (Improving)

B (Stable)

C (Degrading)

NOTE:	1. Information for Line 9 may **not** be available and is **not** required for initial notifications.
	2. When using WebEOC, Line 9 information can be typed in **OR** loaded by selecting "Import Plant/MET Data" button on the ENF.

☐ 2.13 **IF** Follow-up Notification, complete Line 9 (Data provided by RAM)

☐ 2.13.1 **IF** meteorological data was imported into WebEOC ENF with the "Import Plant/MET Data" button, verify data is correct.

OR

☐ 2.13.2 Record wind direction.

☐ 2.13.3 Record wind speed.

☐ 2.13.4 Record precipitation (inches per 15 minute period).

☐ 2.13.5 Mark appropriate stability class.

NOTE: Format for time is #### and date is MM/DD/YYYY.

☐ 2.14 Complete Line 10 (Data provided by Accident Assessment Manager)

☐ 2.14.1 Select or mark [A] (Declaration) **OR** [B] (Termination).

☐ 2.14.2 Record time and date of declaration **OR** termination.

A. **IF** using WebEOC ENF, select **Get Date** button to acquire current date **AND** edit as needed.

OR

B. Enter time and date of declaration **OR** termination.

☐ 2.15 **IF** termination notification, **GO TO** Step 2.24.

NOTE: The following list provides examples of events that could affect more than one unit. The list may not be all inclusive.

- Events involving CAS or SAS
- Security event.
- Seismic event.
- Tornado on site.
- Hurricane force winds on site.
- Loss of both switch yards.
- SSF event.
- Fire affecting shared safety related equipment.
- Toxic gas event

☐ 2.16 Complete Line 11 (Data provided by Accident Assessment Manager)

☐ 2.16.1 **IF** event affects emergency class on more than one unit equally, select or mark All.

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

NOTE:
1. Unaffected Unit(s) status not required for Initial Notifications.
2. In WebEOC ENF, **Get Date** button will load current date in specific line field in appropriate format. Edit as needed.

☐ 2.17 Complete Line 12 (Data provided by Accident Assessment Manager)

☐ 2.17.1 **IF** Unit is shutdown, record 0% power, **AND** record shutdown time and date.

☐ 2.17.2 **IF** Unit is **NOT** shutdown, select "Import Plant/MET Data" button to auto-populate Line 12A.

NOTE:	Enclosure 6.5 (Lead Offsite Communicator Duties) page 3 of 4 provides examples for Line 13 information.

☐ 2.18 Complete Line 13.

☐ 2.18.1 Record any additional information provided by EOF staff.

☐ 2.18.2 **IF** first message from EOF, include "EOF activated at _____ (time)."

☐ 2.18.3 **IF** message contains change in Protective Action Recommendations, include "PAR Change" and reason for PAR change in narrative.

☐ 2.18.4 **IF** event involves security threat, consult job aid (Nuclear Security Approved Messages for Security Related Events/Issues) in Offsite Agency Communicator's notebook for guidance.

NOTE:	**IF** ENF has already been approved, the following update to agencies may be completed verbally during message transmission.

☐ 2.18.5 **IF** an upgrade in classification occurs prior to transmitting message, include "Upgrade to follow."

☐ 2.19 **IF** initial notification **AND** dose information is not available, **GO TO** Step 2.24.

NOTE:	Information for Lines 14, 15, and 16 may not be available and is not required for initial notification due to Protective Action Recommendation change.

☐ 2.20 **IF** initial notification due to Protective Action Recommendation change **AND** dose information is not available, **GO TO** Step 2.24.

☐ 2.21 **IF** termination notification, **GO TO** Step 2.24.

☐ 2.22 **IF** A (None) selected on Line 6, **GO TO** Step 2.24.

☐ 2.23 Complete Lines 14, 15, and 16 (Data provided by RAM)

☐ 2.23.1 **IF** using WebEOC ENF **AND** release is occurring

☐ A. Verify dose information imported into form from URI is correct.

☐ B. Line 14 TYPE - mark C Ground

☐ C. Line 14 UNITS - mark B Ci/sec.

☐ D. Line 14 FORM - check A (Airborne), **OR** B (Liquid) **AND** record release start and/or stop times, as appropriate.

☐ E. **GO TO** Step 2.25.

☐ 2.23.2 **IF** using manual form **AND** release is occurring

☐ A. Line 14 TYPE - mark C Ground

☐ B. Line 14 UNITS - mark B Ci/sec.

☐ C. Line 14 - Complete MAGNITUDE section for appropriate type of release.

☐ D. Line 14 FORM - check A (Airborne), **OR** B (Liquid) **AND** record release start and/or stop times as appropriate.

☐ E. Line 15 - Enter projection period (hours).

☐ F. Line 15 - Enter estimated release duration (hours).

☐ G. Line 15 - Enter projection performed Time/Date.

☐ H. Line 16 - Record projected doses provided by most current dose assessment.

☐ 2.23.3 **IF** using manual form **AND** release has occurred, complete Line 14 FORM - check A (Airborne), **OR** B (Liquid) **and** record release start and stop time and date.

NOTE: 1. **IF** data changes during review of the emergency notification form, it is a good practice to require the EOF staff to do a "clean sweep" through the form prior to approval.

2. The "Received by" and the "Received by Time and Date" sections of Line 17 are not used by Duke Energy and should be left blank.

☐ 2.24 **IF** using manual form, complete Line 17:

☐ A. Request EOF Director review and sign form

☐ B. Enter EOF Director title

☐ C. Enter Time and Date

☐ D. Enter name of the Communicator to make notification call on "Notified By" line

☐ E. Mark signed form with "ORIGINAL" stamp

☐ F. **GO TO** Step 3

☐ 2.25 **IF** using WebEOC ENF, complete Line 17:

☐ 2.25.1 Ensure all sections except Line 17 are complete by reviewing form.

☐ 2.25.2 Select **Validate** button at bottom of WebEOC ENF page.

☐ 2.25.3 Obtain EOF Director's concurrence **AND**

☐ A. Enter EOF Director's name in Approved By block.

☐ B. Select appropriate title from pull down menu.

☐ C. Select **Get Time** and **Get Date** buttons to acquire current time and date, **AND** edit as needed.

☐ D. Enter name of Communicator to make notification call on "Notified By" line.

☐ 2.26 Document approval of WebEOC ENF

☐ 2.26.1 Print copy of notification form.

A. Select "Save Draft" button to return to Emergency Notification Messages panel.

B. Select "View" button in EN Form column for applicable message.

C. Select "Print" button on EN Form to open pdf file.

D. Select Printer Icon on Web browser **OR** Adobe Reader and follow the prompts.

E. Close Web browser.

F. Select "Return" button on EN Form to open Emergency Notification Messages panel.

G. Select "Edit" button in Details column for applicable message to open EN Form.

☐ 2.26.2 Request EOF Director to sign form next to "Approved by" line for official documentation purposes.

☐ 2.26.3 Mark signed form with "ORIGINAL" stamp.

☐ 2.26.4 **WHEN** EOF Director verbally concurs that ENF is complete, select "Approve" button at bottom of WebEOC EN Form. (Emergency Notification FAX management panel will open.)

☐ **3.** Transmit message to Offsite Agencies per Enclosure 6.2 (Emergency Notification Form (ENF) Transmission).

NOTE:

1. Selective Signaling is the primary communication device. Commercial telephone (Conference Call) is first back-up. EOF Commercial Telephone line (Individual Line) is second back-up. EOF Satellite Phone is third back-up.

2. Information regarding back-up communication devices is located in:

   - CNS Emergency Phone Directory (EP Group Manual Section 5.3.6)
   - McGuire Procedure RP/0/A/5700/014 (Emergency Telephone Directory)
   - Oconee Nuclear Station Emergency Telephone Directory.

3. Selective Signaling is an open line capable of connecting all agencies together at the same time. It is always active (no dial tone). The handset has a "push to talk" button which must be pressed for the other parties to hear you. To use headset instead of handset, the switch on headset controller must be set to "headset" and handset removed from phone cradle.

4. Although the official transmittal time is when the first agency answers, the NRC requirement that **ALL** state and county agencies must be notified within 15 minutes of emergency declaration. Providing the information in Step 1.6 meets the 15 minute notification time requirement.

1. Send message.

☐ 1.1 **IF** manually faxing ENF, **GO TO** Enclosure 6.4 (Fax Instructions).

NOTE:

1. Selecting the "Approve" button on the WebEOC EN Form will automatically open the WebEOC Emergency Notification Fax Management panel with the recipient name list auto-populated.
2. Clicking "EN Form" on the Control Panel under the "Boards" header will open the Emergency Notification Messages panel.
3. Clicking the "View" button in the "Fax" column in the Emergency Notification Messages panel will open the Emergency Notification Fax Management panel.
4. Clicking the "Cancel" button on the Emergency Notification Fax Management panel will close the panel and open the Emergency Notification Message panel.

☐ 1.2 **IF** using WebEOC ENF, fax notification form:

☐ 1.2.1 Access Emergency Notification Fax management panel for applicable EN Form

☐ 1.2.2 Verify Fax "Recipient Name" list is correct

☐ 1.2.3 Click "Send Fax" button

☐ 1.2.4 Click OK. (The "Emergency Notification Messages" panel will open.)

☐ 1.3 Press appropriate group dial code.

Site	Group Dial Code
CATAWBA	*5
MCGUIRE	*1
OCONEE	*4

NOTE: Page 2 of a manual ENF may be used as a job aid.

☐ 1.3.1 Record each agency answering by checking off agency name.

☐ 1.3.2 **IF** an offsite agency does not answer, dial individual Selective Signaling number **OR** request another communicator contact that agency by backup means using numbers below.

- **CATAWBA**

Agency	SELECTIVE SIGNALING Individual number	COMMERCIAL TELEPHONE Individual phone numbers OR One touch dial button
York County WP/EOC	513	9-1-803/329-1110
Mecklenburg Co. WP/EOC	116	9-704/336-2441 (WP) 9-704/432-4120 (EOC)
Gaston County WP/EOC	112	9-704/866-3300
North Carolina WP/EOC	314	9-1-919/733-3300
South Carolina WP/EOC	518	9-1-803/737-8500

- **McGUIRE**

Agency	SELECTIVE SIGNALING Individual number	COMMERCIAL TELEPHONE Individual phone numbers OR One touch dial button
Gaston County WP/EOC	112	9-704/866-3300/3243
Lincoln County WP/EOC	113	9-1-704/735-8202/736-8511
Iredell County WP/EOC	114	9-1-704/878-3039
Mecklenburg Co. WP/EOC	116	9-704/336-2441 (WP) 9-704/432-4120 (EOC)
Catawba County WP/EOC	118	9-1-828/464-3112
Cabarrus County WP/EOC	119	9-704/920-3000 (WP) 9-1-704/436-6519 (EOC)
North Carolina EOC/WP	314	9-1-919/733-3300

OCONEE

NOTE: For Oconee only: Oconee County and Pickens County EMA **CANNOT** be reached between 1700 hours to 0800 hours.

Agency	SELECTIVE SIGNALING	COMMERCIAL TELEPHONE
	Individual number	Individual phone numbers OR One touch dial button
Oconee County WP (LEC)	416	9-1-864/638-4111
Pickens County WP (LEC)	410	9-1-864/898-5500
Oconee County EOC (EMA)	417	9-1-864/638-4200
Pickens County EOC (EMA)	419	9-1-864/898-5943
South Carolina WP/EOC	518	9-1-803/737-8500

☐ 1.4 Document time first party answered as notification time on Line 2.

☐ 1.4.1 **IF** using WebEOC:

A. Access Emergency Notification Fax Management panel for appropriate message (EN Form)

B. Enter Time and Date first agency responded into Notification Time and Date fields.

C. Select "Save" button to auto-populate EN Form with Notification Time and Date on line 2.

☐ 1.4.2 **IF** using manual ENF, document notification time and date on Line 2 of signed original notification form.

NOTE: Message authentication is only required if message transmittal is other than via Selective Signaling or if requested by an offsite agency.

☐ 1.5 **REFER TO** Enclosure 6.3 (Authentication Guideline) as needed.

☐ 1.6 **WHEN** agencies are "on line," say, *"This is the Duke Energy Emergency Operations Facility."*

☐ 1.6.1 **IF** Initial or follow-up notification, say

This is a Drill/an Actual Emergency.
Catawba/McGuire/Oconee has (just declared) an
Unusual Event/Alert/Site Area Emergency/General Emergency based on
EAL # _____.

A copy of message #____ has been faxed to you (and it has also been posted on WebEOC). Does everyone have this message?

☐ 1.6.2 **IF** Termination message, say

This is a Drill/an Actual Emergency.
Catawba/McGuire/Oconee has terminated the
Unusual Event/Alert/Site Area Emergency/General Emergency.

A copy of message #____ has been faxed to you (and it has also been posted on WebEOC). Does everyone have this message?

☐ 1.7 **IF** all answers are yes, **GO TO** step 1.10.

☐ 1.8 **IF** any answer is no, send fax again to appropriate agencies.

NOTE:	If message has to be transmitted verbally, read slowly to allow time for recipients to copy down the notification message.

☐ 1.9 **IF** any of agencies have not received faxed message on second fax attempt, transmit message verbally as follows:

☐ 1.9.1 Request appropriate agencies to obtain a blank notification form.

☐ 1.9.2 Read Emergency Notification Message line by line to agencies.

☐ 1.10 Provide agencies with Communicator's name.

NOTE:
1. Incoming calls other than Selective Signaling must be authenticated.
2. A representative from South Carolina Department of Health and Environmental Control (SC DHEC) will typically call in on the confirmation line with questions about the event. **(CNS and ONS only)**
3. Date and time do not need to be transferred to the back of the form if all parties were on line at the time of message transmission.

☐ 1.11 Ask for questions

☐ 1.11.1 **IF** no questions, **GO TO** Step 1.12.

☐ 1.11.2 **IF** a question is in reference to information on Emergency Notification Form, provide information to requesting agency.

☐ 1.11.3 **IF** a question is not in reference to information on Emergency Notification Form, perform the following:

A. Document question in Communicator's personal log.

B. Document name of agency making request.

C. Document name of individual making request.

D. Request EOF Director to answer question.

E. Document answer provided by EOF Director or designee in Communicator's personal log.

F. Request EOF Director to sign and date answer recorded in Communicator's personal log.

G. Contact requesting agency.

H. Provide answer to requesting agency.

I. Document time answer was provided to requesting agency in Communicator's personal log.

☐ 1.12 Obtain names of each agency representative by saying:

> *"I need to verify the name of each agency representative. When I call out your agency, please give your name."*

AND performing a roll call.

☐ 1.12.1 Document name of individuals.

☐ A. **IF** using WebEOC ENF:

1. Access Emergency Notification Fax Management panel for appropriate message (EN Form).
2. Record fax recipient names in the Government Agencies Notified "Received By" field and enter items and dates.
3. Select "Update" Button.

☐ B. **IF** using manual form, record names on back of Emergency Notification Form.

☐ 1.13 Inform agencies that message transmission is complete by saying:

> *"This concludes this message. EOF clear."*

☐ 1.14 **IF** a Keowee dam/dike condition "A" or "B" or external flood condition exists for Oconee, fax ENF to GEMA, NWS, Hart County EMA, and Elbert County EMA using Enclosure 6.4, Fax Instructions, Page 4 of 4.

NOTE:

1. Authentication is not required when using the Selective Signaling phone unless requested by an Off-site Agency.

2. The Authentication Code List is a controlled listing of numbers and corresponding words provided by the state(s). This listing is used by the site and the off-site agencies to "authenticate" communications between the various parties. This listing provides assurance to the communication "*receiver*" that information from the "*transmitter*" is valid and authentic. Communication authentication may be performed anytime the *receiver* of information wishes to assure the information is authentic. This is accomplished by having the *receiver* provide a number from the code word list and then having the *transmitter* provide the corresponding word to that specified number from the list.

3. The Authentication Code List (EP Functional Area Manual 3.14.4.2) is located in:

   - Procedure file cabinet.

   - Off-site Communicator Notebook under the "Authentication Code List" tab.

   - WebEOC on the Emergency Notification Fax Management panel using "Get Authentication Code" button.

4. The Authentication field on Line 2 of the EN Form is complete when it is filled in with an Authentication number or an N/A (if no authentication is performed).

1. Placing a Call

☐ 1.1 **IF** using Authentication Code List:

☐ 1.1.1 Ask State or County Representative if they want Authentication

☐ 1.1.2 **IF** Authentication is **NOT** desired, enter N/A in AUTHENTICATION # field on (Line 2) EN Form

☐ 1.1.3 **IF** Authentication is desired, request State or County Representative to provide a number from Authentication Code list.

A. Provide code word(s) corresponding to number from Authentication Code List.

B. Document number in AUTHENTICATION # field on (Line 2) Emergency Notification Form.

☐ 1.2 **IF** using WebEOC:

☐ 1.2.1 Access Emergency Notification Fax Management panel for appropriate message (EN Form).

☐ 1.2.2 Ask the State or County Representative if they want Authentication.

☐ 1.2.3 **IF** Authentication is requested:

A. Request State or county Representative to provide a number from the Authentication Code list.

B. Enter number provided by Agency into AUTHENTICATION # field.

C. Select "Get Authentication Code" (the Code Word(s) will appear).

D. Provide Code Word(s)

E. Select Save to auto-populate EN Form

☐ 1.2.4 **IF** Authentication is **NOT** requested:

A. Enter N/A into AUTHENTICATION # field

B. Select Save to auto-populate EN Form

2. Receiving a Call

☐ 2.1 **IF** receiving a call from off site and identity of party calling is **NOT** known,

☐ 2.1.1 Provide a number from Authentication Code List to caller.

☐ 2.1.2 Obtain word corresponding with number on Authentication Code List from caller.

☐ 2.1.3 Document questions and answers in Communicator's personal log.

1. Group Fax Instructions

☐ 1.1 **IF** sending a fax to all counties and state(s) for a site:

☐ 1.1.1 Place ENF face up in Off-site Communicator Fax machine.

☐ 1.1.2. Press appropriate site's one-touch speed dial button:

Site	One-touch number	Label
Catawba	1	CNS Gr
McGuire	2	MNS Gr
Oconee	3	ONS Gr

☐ 1.1.3 Press **Start**

☐ 1.1.4 Ensure off-site agencies have received fax by returning to Enclosure 6.2, Step 1.3, or individual calls.

2. Single Fax Using One-touch Button Instructions

☐ 2.1 **IF** sending fax to a single location:

☐ 2.1.1 Place ENF face up in Off-site Communicator Fax machine.

☐ 2.1.2 Press appropriate location's one-touch speed dial button:

NOTE:	For one-touch numbers 21 through 40, press "21-40" button, then one-touch number.

CATAWBA

One-touch number	Label	Agency Name
4	NC EOC	North Carolina WP/EOC
5	SC WP	South Carolina WP/EOC
8	Gas WP	Gaston County WP
11	Mec WP	Mecklenburg County WP
12	Yor WP	York County WP
15	CNS EQ	CNS - OPS Training Center
16	CNS Com	CNS TSC Offsite Agency Communicators
20	JIC	Joint Information Center
22	NC W Br	North Carolina EM Western Branch Office
24	NC Hwp	North Carolina Alternate State WP
25	SC Hwp	South Carolina Highway Patrol (WP Backup)
28	Gas Eoc	Gaston County EOC
31	Mec Eoc	Mecklenburg County EOC
32	ECOC	Enterprise Crisis Operation Center
35	CNS Tsc	Catawba TSC
38	NRC OC	NRC Headquarters Operations Center
39	NRC R2	NRC Region 2 Operations Center

OR

McGUIRE

One-touch number	Label	Agency Name
4	NC EOC	North Carolina WP/EOC
6	Cabb WP	Cabarrus County WP
7	Cata WP	Catawba County WP
8	Gas WP	Gaston County WP
9	Ired WP	Iredell County WP
10	Lin WP	Lincoln County WP
11	Mec WP	Mecklenburg County WP
17	MNS EE	McGuire Energy Explorium (News Group)
20	JIC	Joint Information Center
22	NC W Br	North Carolina EM Western Branch Office
24	NC Hwp	North Carolina Alternate State WP
26	Cab Eoc	Cabarrus County EOC
27	Cat Eoc	Catawba County EOC
28	Gas Eoc	Gaston County EOC
29	Ire Eoc	Iredell County EOC
30	Lin Eoc	Lincoln County EOC
31	Mec Eoc	Mecklenburg County EOC
32	ECOC	Enterprise Crisis Operation Center
37	MNS Tsc	McGuire TSC
38	NRC OC	NRC Headquarters Operations Center
39	NRC R2	NRC Region 2 Operations Center

OR

OCONEE

One-touch number	Label	Agency Name
5	SC WP	South Carolina WP/EOC
13	Oco WP	Oconee County WP (LEC)
14	Pic WP	Pickens County WP (LEC)
19	ONS	Oconee TSC Offsite Agency Communicators
20	JIC	Charlotte Joint Information Center
25	SC Hwp	South Carolina Highway Patrol (WP Backup)
32	ECOC	Enterprise Crisis Operation Center
33	Oco Eoc	Oconee County EOC (EMA)
34	Pic Eoc	Pickens County EOC (EMA)
38	NRC OC	NRC Headquarters Operations Center
39	NRC R2	NRC Region 2 Operations Center
40	ONS JIC	Oconee Joint Information Center

☐ 2.1.3 Press **Start**

☐ 2.1.4 Ensure off-site agencies have received fax by returning to Enclosure 6.2, Step 1.3, or individual calls.

3. Single Fax Dialing Manually Instructions

☐ 3.1 **IF** sending fax to a single location:

☐ 3.1.1 Place ENF face up in Off-site Communicator Fax machine.

☐ 3.1.2 Dial appropriate fax number using keypad.

☐ 3.1.3 Press **Start**

NOTE: Georgia Emergency Management Agency (GEMA), Hart County EMA, Elbert County EMA and National Weather Service (NWS) are provided faxed copies of the ENF whenever a Condition A or Condition B exists for a Keowee Hydro Project Dam/Dike. GEMA and NWS phone numbers are available in the Consolidated Emergency Plan Telephone Directory for the Emergency Operations Facility (EOF).

OCONEE - Keowee Hydro Project Dam/Dike

Agency		Fax Number
GEMA	dial	9-1-404-635-7205
NWS	dial	9-1-864-848-5072 9-1-864-848-1582
Hart Co. EMA	dial	9-1-706-856-5316
Elbert Co. EMA	dial	9-1-706-283-2029

☐ 3.1.4 Ensure off-site agencies have received fax by verbal communication.

Enclosure 6.5

Lead Offsite Agency Communicator Duties

- ☐ Sign in on white board in EOF Director's area as "Offsite Agency Communicator."
- ☐ Ensure adequate staffing of Offsite Agency Communicators (OACs).
- ☐ Arrange for 24-hour OAC coverage.
- ☐ Ensure ENF Communicator reviews Enclosure 6.6 (ENF Communicator Duties).
- ☐ Ensure Telephone Communicator reviews Enclosure 6.7 (Telephone Communicator Duties).

☐ Review the following criteria for notifications.

Initial Notifications

1. Initial notifications to State(s) and counties must be made within 15 minutes of event declaration time. ?

2. For upgrade in classification prior to or while transmitting initial message:
   - -Notification for lesser emergency classification must be made within 15 minutes of lesser classification declaration time.
   - -Agencies must be informed that an upgrade in classification will be coming.
   - -Upgraded classification message must be transmitted within 15 minutes of upgraded classification declaration time.

Follow-up Notifications

1. Follow-up notifications to State(s) and Counties must be made as follows:

Catawba	McGuire	Oconee
-For NOUE, ALERT, SAE, or GE, every hour until the emergency is terminated.	-For NOUE, every 4 hours until the emergency is terminated. -For ALERT, SAE, or GE, every hour until the emergency is terminated.	-For NOUE, a follow-up is not required. -For ALERT, SAE, or GE, every 60 minutes until the emergency is terminated.

OR

Catawba	McGuire	Oconee
-If there is any significant change to the situation, make notification as soon as possible. See NOTE* below for example of changes.	-If there is any significant change to the situation, make notification as soon as possible. See NOTE* below for example of changes.	-If there is any significant change to the situation, make notification as the change occurs. See NOTE* below for examples of changes.

OR

Catawba	McGuire	Oconee
-As agreed upon with an Emergency Management official from each individual agency. Documentation shall be maintained for any agreed upon schedule change. -Interval shall not be greater than 4 hours to any agency.	-As agreed upon with an Emergency Management official from each individual agency. Documentation shall be maintained for any agreed upon schedule change. -Interval for ALERT, SAE, or GE shall not be greater than 2 hours to any agency.	-Required every 60 minutes from notification time on Line 2 for ALERT, SAE, or GE. -This frequency may be changed at the request of offsite agencies.

*NOTE: Examples of significant plant changes include: evacuation/relocation of site personnel, fires onsite, MERT activation and/or injured personnel transported offsite, start/stop of a release, chemical spills, explosions, any event that would cause or require offsite agency response, or Condition "A" or "B" for Keowee Hydro Project Dams/Dikes (Oconee only).

2. If follow-up is due and an upgrade to higher classification is declared, there is no need to complete follow-up ENF. Offsite agencies must be notified that follow-up is being superseded by upgrade to a higher classification and information will be provided.

3. Initial messages in General Emergency classification that involve upgrade in PARs shall be communicated to offsite agencies as soon as possible and within 15 minutes.

☐ Inform EOF Director informed of progress in preparing to take turnover from site.

NOTE: In addition to Emergency Action Level information entered on Line 4 of Emergency Notification Form (ENF), any event, which has the potential to affect the public, needs to be reported on Line 13. The following list is not all-inclusive. Each event should be carefully evaluated and discussed with the EOF Director. Notification to Offsite Agencies should take place as soon as possible.

- Other unrelated classifiable events (for example, during an Alert, an event which, by itself would meet the conditions for an Unusual Event)
- Major/Key Equipment Out of Service
- Emergency response actions underway
- Fire(s) onsite
- Flooding related to the emergency
- Explosions
- Loss of Offsite Power
- Core Uncovery
- Core Damage
- Medical Emergency Response Team activation
- Personnel injury or death
- Transport of injured individual(s) offsite - specify whether contaminated or not
- Site Evacuation/relocation of site personnel
- Saboteurs/Intruders/Suspicious devices/Threats
- Chemical or Hazardous Material Spills or Releases
- Extraordinary noises audible offsite
- Events causing/requiring offsite agency response
- Events causing increased media attention.
- Event which has the potential to affect the public.
- Protective Action Recommendation change and reason for the change.
- **IF** an upgrade in classification occurs prior to or while transmitting an initial message, include "Upgrade to follow" (if time permits, otherwise, this information can be made verbally).

☐ Monitor events for potential inclusion on ENF.

☐ Ensure events (e.g., injuries, fires, intruders, etc.) are reported and later ENFs follow-up on events and report resolution ("close the loop").

☐ Coordinate Communications function with EOF Director.

NOTE:	It takes several minutes to calculate doses so be sure that Dose Assessment has a 15 minute warning their data is needed. If they aren't comfortable with their data or if they run low on time, get the Radiological Assessment Manager involved at once.

- ☐ Coordinate with Radiological Assessment Manager to ensure notification time requirements are met.
- ☐ Ensure all messages (ENFs) are accurate, complete, and timely.
- ☐ Inform EOF Director that approval is needed several minutes before transmittal deadline, if possible.
- ☐ Review manual ENF prior to providing to EOF Director for approval, allowing EOF Director sufficient time to revise if needed.
- ☐ Serve as a backup Telephone Communicator if all agencies are not on the primary communications tool.
- ☐ Document topics that should be discussed in critique.
- ☐ Participate in critique.
- ☐ Determine what role was filled by each communicator and document any comments/questions concerning their actions.

Enclosure 6.6

ENF Communicator Duties

- ☐ Complete ENFs **PER** Enclosure 6.1.
- ☐ Ensure Lead OAC and EOF Director review draft ENF.
- ☐ Copy and distribute each signed ENF promptly.

Enclosure 6.7

Telephone Communicator Duties

☐ Review the following criteria for notifications.

Initial Notifications

1. Initial notifications to State(s) and counties must be made within 15 minutes of event declaration.

2. For upgrade in classification prior to or while transmitting initial message:
   -Notification for lesser emergency classification must be made within 15 minutes of lesser classification declaration time.
   -Agencies must be informed that an upgrade in classification will be coming.
   -Upgraded classification message must be transmitted within 15 minutes of upgraded classification declaration time.

Follow-up Notifications

1. Follow-up notifications to State(s) and Counties must be made as follows:

Catawba	McGuire	Oconee
-For NOUE, ALERT, SAE, or GE, every hour until emergency is terminated.	-For NOUE, every 4 hours until emergency is terminated. -For ALERT, SAE, or GE, every hour until emergency is terminated.	-For NOUE, a follow-up is not required. -For ALERT, SAE, or GE, every 60 minutes until emergency is terminated.

OR

Catawba	McGuire	Oconee
-If there is any significant change to the situation, make notification as soon as possible. See NOTE* below for examples.	-If there is any significant change to the situation, make notification as soon as possible. See NOTE* below for examples.	-If there is any significant change to the situation, make notification as the change occurs. See NOTE* below for examples.

OR

Catawba	McGuire	Oconee
-As agreed upon with an Emergency Management official from each individual agency. Documentation shall be maintained for any agreed upon schedule change. -Interval shall not be greater than 4 hours to any agency.	-As agreed upon with an Emergency Management official from each individual agency. Documentation shall be maintained for any agreed upon schedule change. -Interval for ALERT, SAE or GE shall not be greater than 2 hours to any agency.	-Required every 60 minutes from notification time on Line 2 for ALERT, SAE, or GE. -This frequency may be changed at the request of offsite agencies.

*NOTE: Examples of significant plant changes include: evacuation/relocation of site personnel, fires onsite, MERT activation and/or injured personnel transported offsite, chemical spills, start/stop of a release, explosions, any event that would cause or require offsite agency response, or Condition "A" or "B" for Keowee Hydro Project Dams/Dikes (Oconee only).

2. If follow-up is due and an upgrade to higher classification is declared, do not complete follow-up ENF. Offsite agencies must be notified that follow-up is being superseded by upgrade to a higher classification and information will be provided.

3. Initial messages in General Emergency classification that provide upgrade in PARs shall be communicated to offsite agencies as soon as possible and within 15 minutes.

☐ Send messages per Enclosure 6.2.

NOTE:	This applies to all ENFs regardless of site or origination - Control Room, TSC, and EOF.

☐ Update EOF Director's Area and OAC status boards as each ENF is completed with next message due number and time.

☐ Continue to track event and required transmittal times.

Enclosure 6.8

ENF Quick Reference

Line 1 *	▪ Select/Mark A for **Drill** or B for **Actual Event.** ▪ Ensure or Record Message Number
Line 2	Select/Mark A for **Initial** or B for **Follow-up** NOTE: Notification Time/Date and Authentication will be completed during message transmission and populated from the WebEOC Emergency Notification Fax Management panel.
Line 3 *	▪ Ensure or record appropriate **Site** (e.g., Catawba) ▪ Ensure, Record, or Select appropriate **Confirmation Phone Number**
Line 4 *	Select/Ensure correct **Event Classification** Select/Ensure correct **EAL #** Select/Ensure **EAL Description** matches EAL Number
Line 5 *	**Protective Action Recommendations** ▪ **IF** Unusual Event, Alert, or Site Area Emergency **AND NO** Condition A for Keowee Hydro Project Dam/Dike, Select/Mark A None ▪ **IF** Site Area Emergency **AND** Condition A for Keowee Hydro Project Dam/Dike, Select/Mark B Evacuate and E Other per Enclosure 6.1, Step 2.10.6 ▪ **IF** General Emergency, Select/Mark B Evacuate and C Shelter, then Select/Record appropriate zones. If circumstances warrant, Select/Mark D KI and/or E Other as appropriate
Line 6 *	**Emergency Release** Select/Mark as appropriate: A - None B - Is Occurring C - Has Occurred
Line 7	**Release Significance** ▪ **IF** No Release is in progress Select/Mark A None ▪ **IF** Release is known, Select/Mark B (Within normal operating limits) OR C (Above normal operating limits) as appropriate. ▪ **IF** release significance is unknown, Select/Mark D (Under evaluation)
Line 8	**Event Prognosis** Select/Mark **Improving, Stable,** or **Degrading** as appropriate.
Line 9 *	**Meteorological Data** (Not required on initial notifications but if available and time allows) Record/import Met data by one of the following methods: ▪ Select the "Import Plant/MET" Data button on the WebEOC EN Form to auto-populate Line 9. ▪ Record Wind Speed and Wind Direction along with Precipitation and Stability Class. ▪ Verify imported information is current.
Line 10 *	Select/Mark A for **Declaration** or B for **Termination** as appropriate and enter the time utilizing one of the following methods. ▪ **IF** using WebEOC ENF select Get Date button, **THEN**, adjust as needed. ▪ Manually type or write time and date of declaration or termination as appropriate.
Line 11 *	**Affected Units** - **IF** event affects the emergency class on more than one unit equally, select or check All. **IF** the event only affects one unit or one unit has a higher emergency class, select or check appropriate unit.
Line 12	**Unit Status** - **IF** Unit is Shutdown, record 0% power AND Shutdown Time and Date. **IF** Unit is **NOT** Shutdown, record % power only. ▪ Select the "Import Plant/MET Data" button to auto-populate Line 12.A, % Power if the unit is **NOT** shutdown.
Line 13	**Remarks:** Record any additional information. (Reference Enclosure 6.5)
Lines 14 - 16	**Radiological Information** ▪ Select the "Import Dose Projection Data" button to auto-populate Lines 14, 15, and 16. ▪ **IF** using WebEOC Electronic Notification Form, verify imported information is correct. ▪ **IF** using Manual Form and release is occurring, have RAM provide information.
Line 17	Complete Line 17 per one of the following methods: ▪ **IF** using WebEOC ENF, (1) Assure all sections are complete by clicking Validate button at bottom of page, (2) Enter Approver's name in "Approved by" block (3) Select appropriate title from pull down menu, (4) Enter Time & Date, (5) Record name of Communicator making call on "Notified by" line. (6) Print form and have EOF Director review and sign, and (7) Select "Approve" at bottom of form. ▪ **IF** using Manual Form, (1) Print form (2) Have EOF Director review and complete Line 17, and (3) Record name of Communicator making call.
	Fax form per instructions in Enclosure 6.2.

* Performance Indicator Accuracy Measure

Emergency Notification Form Completion Briefing Order

Line 1 - Communicator

Line 2 - Communicator

Line 3 - Communicator

Line 4 - Accident Assessment Manager

Line 5 - Radiation Assessment Manager

Line 6 - Radiation Assessment Manager

Line 7 - Radiation Assessment Manager

Line 8 - Accident Assessment Manager

Line 9 - Radiation Assessment Manager

Line 10 - Accident Assessment Manager

Line 11 - Accident Assessment Manager

Line 12 - Accident Assessment Manager

Line 13 - Any one

Line 14 - Radiation Assessment Manager

Line 15 - Radiation Assessment Manager

Line 16 - Radiation Assessment Manager

Line 17 - EOF Director

Enclosure 6.9

Turnover Checklist

☐ Obtain most recent notification

☐ Emergency Classification (check):

☐ NOUE, ☐ Alert, ☐ Site Area Emergency, ☐ General Emergency

Emergency Declared at (time): _____

☐ Last Emergency Notification Form Message # _____

Transmitted at _____ (time)

Using (check): ☐ WebEOC, ☐ Pre-printed ENF, ☐ Manual ENF

☐ Next Message Due at _____ (time)

☐ Alternate Facility Activated: TSC: ☐ Yes ☐ No OSC: ☐ Yes ☐ No

Communications Status

Catawba

Indicate which agencies have been contacted	Yes	No
York County WP/EOC		
Mecklenburg County WP/EOC		
Gaston County WP/EOC		
North Carolina EOC/WP		
South Carolina WP/EOC		
South Carolina DHEC		

McGuire

Indicate which agencies have been contacted	Yes	No
Gaston County WP/EOC		
Lincoln County WP/EOC		
Iredell County WP/EOC		
Mecklenburg County WP/EOC		
Catawba County WP/EOC		
Cabarrus County WP/EOC		
North Carolina EOC/WP		

Oconee

Indicate which agencies have been contacted	Yes	No
Oconee County Law Enforcement Center		
Oconee County Emergency Management Agency		
Pickens County Law Enforcement Center		
Pickens County Emergency Management Agency		
South Carolina WP/EOC		
South Carolina DHEC		

☐ Communications Problems:

_____

_____

_____

☐ Site Evacuation: ☐ Yes ☐ No Time Evacuation Initiated: _____

Number of persons being evacuated: _____

Site Evacuation Location:

Catawba

Indicate site evacuation location:	Yes	No
Site Allen (Plant Allen, Belmont, NC)		
Site York (York Operations Center, York, SC)		
Home		

McGuire

Indicate relocation site:	Yes	No
TTC (Bldg. 7403)		
Cowans Ford Dam Service Bay		
Mt. Holly Training Center		
McGuire Office Complex (MOC) Auditorium (Bldg. 7422)		
Home		

Oconee

Indicate site evacuation location:	Yes	No
Daniel High School		
Keowee Elementary School		
Home		

☐ Other Pertinent Information (examples: fires/explosions onsite, MERT activation, injured personnel transported offsite, chemical spills, Condition "A" or "B" for Keowee Hydro dams/dikes, other events requiring offsite agency support)

_____

_____

☐ Turnover Completed by _____

at (date/time): _____

Duke Energy Standard Procedure for CNS, MNS & ONS **Standard Procedure For Periodic Test Of The EOF Selective Signaling, ENS and ETS** **Reference Use**	Procedure No. ST/0/A/4600/094 Revision No. 004 Electronic Reference No. SHR0005O
PERFORMANCE	

********** UNCONTROLLED FOR PRINT **********

(ISSUED) - PDF Format

Standard Procedure For Periodic Test Of The EOF Selective Signaling, ENS and ETS

1. Purpose

The procedure provides for a monthly periodic test to be conducted in order to verify the availability and functional operability of the selective signaling, ENS and ETS equipment in the Emergency Operations Facility (EOF). This procedure also documents the required monthly First Aid kit inventory. This procedure will be used to satisfy testing requirements for Catawba, McGuire and Oconee. Procedure steps may be performed out of sequence at the discretion of the person performing the test.

2. References

2.1 McGuire Nuclear Site Emergency Plan

2.2 Catawba Nuclear Site Emergency Plan

2.3 Oconee Nuclear Site Emergency Plan

2.4 NUREG-0654, Rev. 1

2.5 10 CFR 50, Appendix E, Section IV.E.9

2.6 AD-EP-ALL-0102, WebEOC® Maintenance and Administration

3. Time Required

Five (5) hours

4. Prerequisite Tests

None

5. Test Equipment Required

None

6. Limits and Precautions

None

7. Required Station Status

N/A

8. Prerequisite System Conditions

None

9. Test Method

N/A

10. Data Required

10.1 Enclosure 13.1, Communication Test

10.2 Enclosure 13.2, Deficiencies and Corrective Actions

11. Acceptance Criteria

Completion of required periodic test and initiation of corrective actions.

12. Procedure

Initial

12.1 Monthly:

_____ 12.1.1 Initiate call to NRC Headquarters Operation Center officer from 704-382-1311 (ETS telephone) in Accident Assessment Room. Dial first number listed (also listed on phone). If first number is busy, proceed to second number.

(ENS) 9-1-(301) 816-5100 or Toll Free 9-1-800-532-3469
9-1-(301) 951-0550 or Toll Free 9-1-800-449-3694

_____ A. Receive return call **(704-382-1311)** (or Toll Free **9-1-800-653-5303)** (2 extensions)

Ext. #1 _____ Ext. #2 _____

_____ 12.1.2 Initiate calls from EOF Selective Signaling Network to verify communications. Complete Enclosure 13.1

12.1.3 Initiate call on HPN ETS telephone **(704-382-1310)** (2 extensions) to any other ETS telephone.

_____ A. Initiate call.

Ext. #1 _____ Ext. #2 _____

_____ B. Receive call.

Ext. #1 _____ Ext. #2 _____

12.1.4 Initiate call on Management Counterpart Link ETS telephone **(704-382-1314)** to any other ETS telephone.

_____ A. Initiate call.

_____ B. Receive call.

12.1.5 Initiate call on Protective Measures Counterpart Link ETS telephone **(704-382-1313)** to any other ETS telephone.

_____ A. Initiate call.

_____ B. Receive call.

12.1.6 Initiate call on Reactor Safety Counterpart Link ETS telephone **(704-382-1312)** to any other ETS telephone.

_____ A. Initiate call.

_____ B. Receive call.

12.1.7 Initiate call on Local Area Network (OCL) ETS Test telephone **(704-382-1315)** to any other ETS telephone.

_____ A. Initiate call.

_____ B. Receive call.

_____ 12.1.8 Inspect First Aid Kit: {PIP G-09-1012}

_____ A. **IF** needed, replenish supplies

_____ B. **IF** needed, replace outdated items

_____ 12.1.9 Verify that pre-programmed buttons for offsite communicator's phones (704-382-0723 & 704-382-0724) are programmed with appropriate numbers. Record results on Enclosure 13.1.

_____ 12.1.10 Place copy of current EOF ERO Member Contact List in binder in EOF Director's Area.

_____ 12.1.11 Record any deficiencies and corrective actions on Enclosure 13.2.

- Any problems with Selective Signaling System or ETS phones, contact the Enterprise Help Desk at 2-4357

_____ 12.1.12 **IF** the ENS telephone (704) 382-1311 **OR** the HPN telephone (704) 382-1310 is inoperable, notify the OSM, STA, or WCC SRO at Catawba, McGuire, and Oconee.

12.2 Periodic test performed by: _____
Printed Name/Signature

12.3 Date periodic test performed: _____

13. Enclosures

13.1 Communications Tests
13.2 Deficiencies and Corrective Actions

Enclosure 13.1

Communications Tests

13.1.1 Call locations listed below using Selective Signal telephone to verify operability of system.

13.1.2 Test FAX equipment via test transmission from EOF per instructions on Page 3 of this enclosure.

√ - Yes X - No

LOCATION	SSS #		Bell Line Pre-programmed nos. verified		FAX #	FAX	WebEOC FAX
			0723	0724			
Mecklenburg County Warning Point	116				9-(704) 432-6249		
Gaston County Warning Point	112				9-(704) 866-7623		
Cabarrus County Warning Point	119				9-(704) 784-1919		
Catawba County Warning Point	118				9-1-(828) 465-1220		
Iredell County Warning Point	114				9-1-(704) 878-5354		
Lincoln County Warning Point	113				9-1-(704) 732-9035 (WP) 9-1-(704) 732-9036 (EOC)		
North Carolina EOC	314				9-1-(919) 825-2688		
McGuire TSC	312				9-(704) 875-1954		
*McGuire Control Room	311				9-(980) 875-4888		
York County	513				9-1-(803) 324-7420		
SC WP/EOC	518				9-1-(803) 737-8575		
Catawba TSC	512				9-(803) 701-3532		
*Catawba Control Room	511				9-(803) 701-3185		
JIC					2-0069		
CNS Ops Training Center					9-(803) 701-3415		
MNS News Group					9-(980) 875-5602		
Duke ECOC					2-3897		

*Call Control Room: Catawba 9-(803) 701-5345 or 9-(803) 701-4138, McGuire 9-(980) 875-4138 prior to testing Control Room Selective Signaling Phone.

√ - Yes X - No

LOCATION	SSS #		Bell Line Pre-programmed nos. verified 0723	0724	FAX #	FAX	AT&T FAX
**Oconee 1 & 2 Control Room	411				9-1-864-873-3153		
**Oconee 3 Control Room	415				9-1-864-873-3728		
Oconee TSC	412				9-1-864-873-4308		
Oconee Alternate TSC	414				9-1-864-873-3597		
Oconee County EOC	417				9-1-864-638-4216		
Oconee County LEC (WP)	416				9-1-864-638-4434		
Pickens County EOC	419				9-1-864-898-5797		
Pickens County LEC (WP)	410				9-1-864-898-5531		
SC Highway Patrol	516				9-1-803-896-8352		

**Call Control Room: Oconee 1&2 (9-1-864-873-2159) and Oconee 3 (9-1-864-873-2160) prior to testing Control Room Selective Signaling Phone.

Fax instructions

- ☐ Log on to WebEOC per AD-EP-ALL-0102, WebEOC® Maintenance and Administration.
- ☐ From WebEOC Control Panel under the boards header, click **EN Form**.
- ☐ Click **Add Emergency Notification** button.
- ☐ Complete and approve test WebEOC Electronic Notification Form.
- ☐ Fax the EN Form to the State and County Agencies.
  - a. Access Emergency Notification Messages panel.
  - b. Ensure Fax "Recipient Name" list is correct.
  - c. Ensure Fax Confirmation Email Address is correct.
  - d. Click "Send Fax" button.
  - e. Click "OK" to send fax to all agencies simultaneously.

- ☐ Verify appropriate agencies received fax.
- ☐ Fill out fax cover sheet as test fax.
  - ☐ Place test fax face up in Offsite Communicator Fax machine.
  - ☐ Press desired preprogrammed group dial numbers.
  - ☐ Press Start.
  - ☐ Verify selected agencies received fax.

Enclosure 13.2

Deficiencies and Corrective Actions

13.2.1 Document any deficiencies

_____

_____

_____

_____

_____

_____

_____

_____

_____

13.2.2 Document any Corrective Actions taken to resolve items documented in Section 13.2.1.

_____

_____

_____

_____

_____

_____

_____

_____

_____

_____

Signature/Date

DUKE ENERGY.

Scott L. Batson
Vice President
Oconee Nuclear Station

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Seneca, SC 29672

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ONS-2014-163

January 12, 2015 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 2014-028

Please find attached for your use and review copies of the enclosed revisions along with the associated supporting documentation and 10 CFR 50.54(q) evaluation. These procedures are Emergency Plan Implementing Procedures.

These revisions are being submitted in accordance with 10 CFR 50.54(q) and do 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
NRR

ONS-2014-163

U. S. Nuclear Regulatory Commission

January 12, 2015

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
Rockville, MD 20852-2738
(send via E-mail)

w/o attachments

Mr. Eddy Crowe
NRC Senior Resident Inspector
Oconee Nuclear Station

ELL
EC2ZF

December 10, 2014

OCONEE NUCLEAR STATION

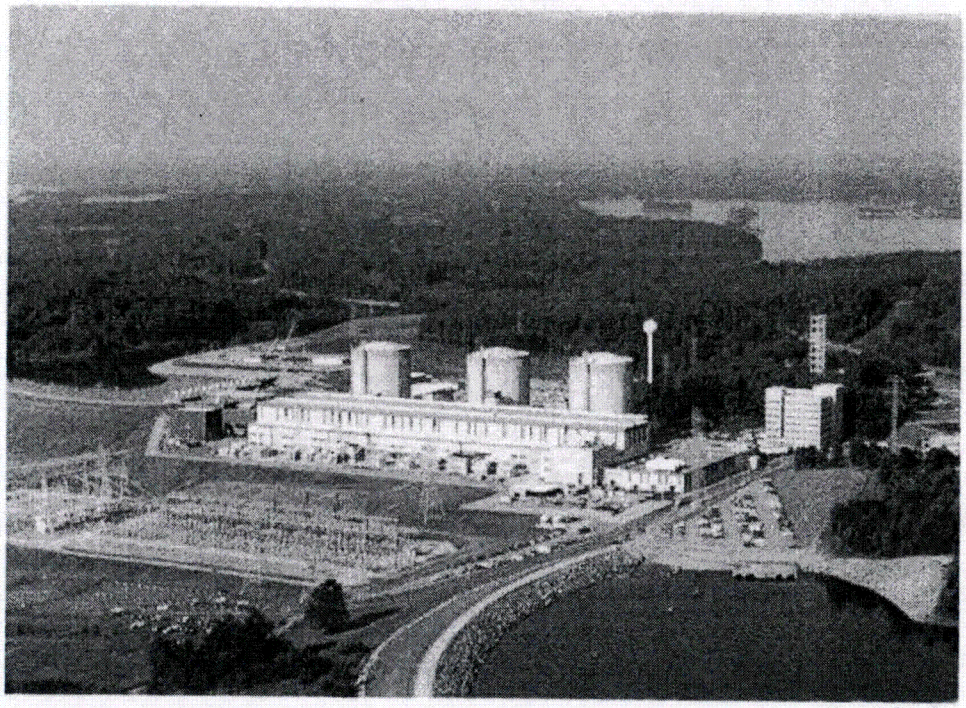
SUBJECT: Emergency Plan Implementing Procedures
Volume 2 Revision 2014-028

Please make the following changes to the Emergency Plan Implementing Procedures, Volume 2:

REMOVE	**INSERT**
Cover Sheet Rev. 2014-027	Cover Sheet Rev. 2014-028
Table of Contents Pages 1, 2, & 3	Table of Contents Pages 1, 2, & 3
RP/0/A/1000/001 Rev 001	RP/0/A/1000/001 Rev 002
RP/0/A/1000/015 A Rev 002	RP/0/A/1000/015 A Rev 003
RP/0/A/1000/015 B Rev 001	RP/0/A/1000/015 B Rev 002
RP/0/A/1000/024 Rev 002	RP/0/A/1000/024 Rev 003
RP/0/A/1000/031 Rev 001	RP/0/A/1000/031 Rev 002

Pat Street
ONS Emergency Preparedness Manager

OCONEE NUCLEAR STATION
EMERGENCY PLAN IMPLEMENTING PROCEDURES
VOLUME 2



APPROVED:

Terry L. Patterson
Director Nuclear Org Effectiveness

1/5/15
Date Approved

VOLUME 2
REVISION 2014-028
December 2014

VOLUME 2
TABLE OF CONTENTS

VOLUME 2
TABLE OF CONTENTS

VOLUME 2
TABLE OF CONTENTS

Duke Energy Oconee Nuclear Station **Emergency Classification**	Procedure No. RP/0/A/1000/001
	Revision No. 002
Reference Use	Electronic Reference No. OP009A63

PERFORMANCE

PDF Format

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

Compared with Control Copy* _____ Date _____

Compared with Control Copy* _____ Date _____

Compared with Control Copy* _____ Date _____

Date(s) Performed	Work Order/Task Number (WO#)

COMPLETION

- ☐ Yes ☐ NA Checklists 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

Procedure Completion Approved* Date
**Printed Name and Signature*

Remarks (*attach additional pages, if necessary*)

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

Printed Date: *12/08/2014*

Enclosure No.: *FULL*

Revision No.: *002*

Procedure No.: *RP/0/A/1000/001*

Emergency Classification

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

- Reviewed in accordance with 10CFR50.54(q) by Emergency Preparedness prior to approval.
- Cross Disciplinary Reviewed by Operations
- Forwarded to Emergency Preparedness within seven (7) working days of approval.

1. Symptoms

1.1 This procedure describes the immediate actions to be taken to recognize and classify an emergency condition.

1.2 This procedure identifies the four emergency classifications and their corresponding Emergency Action Levels (EALs).

1.3 This procedure provides reporting requirements for non-emergency abnormal events.

1.4 The following guidance is to be used by the Emergency Coordinator/EOF Director in assessing emergency conditions:

1.4.1 Definitions and Acronyms are italicized throughout procedure for easy recognition. The definitions are in Enclosure 4.10 (Definitions/Acronyms).

1.4.2 The Emergency Coordinator/EOF Director shall review all applicable initiating events to ensure proper classification.

1.4.3 The BASIS Document (Volume A, Section D of the Emergency Plan) is available for review if any questions arise over proper classification.

1.4.4 **IF** An event occurs on more than one unit concurrently,

THEN The event with the higher classification will be classified on the Emergency Notification Form.

A. Information relating to the problem(s) on the other unit(s) will be captured on the Emergency Notification Form as shown in RP/0/A/1000/015A, (Offsite Communications From The Control Room), RP/0/A/1000/015B, (Offsite Communications From The Technical Support Center) or SR/0/A/2000/004, (Notification to States and Counties from the Emergency Operations Facility).

1.4.5 **IF** An event occurs,

AND A lower or higher plant operating mode is reached before the classification can be made,

THEN The classification shall be based on the mode that existed at the time the event occurred.

1.4.6 The Fission Product Barrier Matrix is applicable only to those events that occur at Mode 4 (Hot Shutdown) or higher.

A. An event that is recognized at Mode 5 (Cold Shutdown) or lower shall not be classified using the Fission Product Barrier Matrix.

1. Reference should be made to the additional enclosures that provide Emergency Action Levels for specific events (e.g., Severe Weather, *Fire*, Security).

1.5 **IF** A transient event should occur,

THEN Review the following guidance:

1.5.1 **IF** An Emergency Action Level (EAL) identifies a specific duration

AND The Emergency Coordinator/EOF Director assessment concludes that the specified duration is exceeded or will be exceeded, (i.e.; condition cannot be reasonably corrected before the duration elapses),

THEN Classify the event.

1.5.2 **IF** A plant condition exceeding EAL criteria is corrected before the specified duration time is exceeded,

THEN The event is **NOT** classified by that EAL.

A. Review lower severity EALs for possible applicability in these cases.

NOTE:	Reporting under 10CFR50.72 may be required for the following step. Such a condition could occur, for example, if a follow up evaluation of an abnormal condition uncovers evidence that the condition was more severe than earlier believed.

1.5.3 **IF** A plant condition exceeding EAL criteria is not recognized at the time of occurrence, but is identified well after the condition has occurred (e.g.; as a result of routine log or record review)

AND The condition no longer exists,

THEN An emergency shall **NOT** be declared.

- Refer to AD-LS-ALL-0006 (Notification/Reportability Evaluation) for reportability

1.5.4 **IF** An emergency classification was warranted, but the plant condition has been corrected prior to declaration and notification

THEN The Emergency Coordinator must consider the potential that the initiating condition (e.g.; Failure of Reactor Protection System) may have caused plant damage that warrants augmenting the on shift personnel through activation of the Emergency Response Organization.

A. **IF** An ***Unusual Event*** condition exists,

THEN Make the classification as required.

1. The event may be terminated in the same notification or as a separate termination notification.

B. **IF** An ***Alert, Site Area Emergency,*** or ***General Emergency*** condition exists,

THEN Make the classification as required,

AND Activate the Emergency Response Organization.

1.6 Emergency conditions shall be classified as soon as the Emergency Coordinator/EOF Director assessment determines that the Emergency Action Levels for the Initiating Condition have been exceeded.

2. Immediate Actions

2.1 Assessment, classification and declaration of any applicable emergency condition should be completed within 15 minutes after the availability of indications or information to cognizant facility staff that an EAL threshold has been exceeded.

2.2 Determine the operating mode that existed at the time the event occurred prior to any protection system or operator action initiated in response to the event.

2.3 **IF** The unit is at Mode 4 (Hot Shutdown) or higher

AND The condition/event affects fission product barriers,

THEN GO TO Enclosure 4.1, (Fission Product Barrier Matrix).

2.3.1 Review the criteria listed in Enclosure 4.1, (Fission Product Barrier Matrix) and make the determination if the event should be classified).

2.4 Review the listing of enclosures to determine if the event is applicable to one of the categories shown.

2.4.1 **IF** One or more categories are applicable to the event,

THEN Refer to the associated enclosures.

2.4.2 Review the EALs and determine if the event should be classified.

A. **IF** An EAL is applicable to the event,

THEN Classify the event as required.

2.5 **IF** The condition requires an emergency classification,

THEN Initiate the following:

- for Control Room - RP/0/A/1000/002, (Control Room Emergency Coordinator Procedure)
- for TSC - RP/0/A/1000/019, (Technical Support Center Emergency Coordinator Procedure)
- for EOF - SR/0/A/2000/003, (Activation of the Emergency Operations Facility)

2.6 Continue to review the emergency conditions to assure the current classification continues to be applicable.

3. Subsequent Actions

3.1 Continue to review the emergency conditions to assure the current classification continues to be applicable.

4. Enclosures

Enclosure 4.1
Fission Product Barrier Matrix

DETERMINE THE APPROPRIATE CLASSIFICATION USING THE TABLE BELOW: ADD POINTS TO CLASSIFY. SEE NOTE BELOW

RCS BARRIERS (BD 5-7)		FUEL CLAD BARRIERS (BD 8-9)		CONTAINMENT BARRIERS (BD 10-13)	
Potential Loss (4 Points)	**Loss (5 Points)**	**Potential Loss (4 Points)**	**Loss (5 Points)**	**Potential Loss (1 Point)**	**Loss (3 Points)**
RCS Leakrate ≥ 160 gpm	RCS Leak rate that results in a loss of subcooling.	Average of the 5 highest CETC ≥ 700° F	Average of the 5 highest CETC ≥ 1200° F	CETC ≥ 1200° F ≥ 15 minutes **OR** CETC ≥ 700° F ≥ 15 minutes with a *valid* RVLS reading 0"	Rapid unexplained containment pressure decrease after increase **OR** containment pressure or sump level not consistent with LOCA
SGTR ≥ 160 gpm		*Valid* RVLS reading of 0"	Coolant activity ≥ 300 µCi/ml DEI	RB pressure ≥ 59 psig **OR** RB pressure ≥ 10 psig and no RBCU or RBS	Failure of secondary side of SG results in a direct opening to the environment with SG Tube Leak ≥ 10 gpm in the **SAME** SG
Entry into the PTS (Pressurized Thermal Shock) Operation **NOTE:** PTS is entered under either of the following: • A cooldown below 400°F @ > 100°F/hr. has occurred. • HPI has operated in the injection mode while NO RCPs were operating.	1RIA 57 or 58 reading ≥ 1.0 R/hr 2 RIA 57 reading ≥ 1.6 R/hr 2 RIA 58 reading ≥ 1.0 R/hr 3RIA 57 or 58 reading ≥ 1.0 R/hr	**NOTE:** RVLS is **NOT** valid if either of the following exists: • One or more RCPs are running **OR** • If LPI pump(s) are *running* **AND** taking suction from the LPI drop line.	**Hours Since SD** / **RIA 57 OR RIA 58 R/hr** / **R/hr** 0 - <0.5 / ≥ 300 / ≥ 150 0.5 - < 2.0 / ≥ 80 / ≥ 40 2.0 - 8.0 / ≥ 32 / ≥ 16	**Hours Since SD** / **RIA 57 OR RIA 58 R/hr** / **R/hr** 0 - < 0.5 / ≥ 1800 / ≥ 860 0.5 - < 2.0 / ≥ 400 / ≥ 195 2.0 - 8.0 / ≥ 280 / ≥ 130	SG Tube Leak ≥ 10 gpm exists in one SG. **AND** the other SG has secondary side failure that results in a direct opening to the environment **AND** is being fed from the affected unit.
HPI Forced Cooling	RCS pressure spike ≥ 2750 psig			Hydrogen concentration ≥ 9%	Containment isolation is incomplete and a release path to the environment exists
Emergency Coordinator/EOF Director judgment	Emergency Coordinator/EOF Director judgment	Emergency Coordinator/EOF Director judgment	Emergency Coordinator/EOF Director judgment	Emergency Coordinator/EOF Director judgment	Emergency Coordinator/EOF Director judgment

UNUSUAL EVENT (1-3 Total Points)	ALERT (4-6 Total Points)	SITE AREA EMERGENCY (7-10 Total Points)	GENERAL EMERGENCY (11-13 Total Points)
OPERATING MODE: 1, 2, 3, 4	**OPERATING MODE:** 1, 2, 3, 4	**OPERATING MODE:** 1, 2, 3, 4	**OPERATING MODE:** 1, 2, 3, 4
4.1.U.1 Any potential loss of Containment	4.1.A.1 Any potential loss or loss of the RCS	4.1.S.1 Loss of any two barriers	4.1.G.1 Loss of any two barriers and potential loss of the third barrier
4.1.U.2 Any loss of containment	4.1.A.2 Any potential loss or loss of the Fuel Clad	4.1.S.2 Loss of one barrier and potential loss of either RCS or Fuel Clad Barriers	4.1.G.2 Loss of all three barriers
		4.1.S.3 Potential loss of both the RCS and Fuel Clad Barriers	

NOTE:
- An event with multiple events could occur which would result in the conclusion that exceeding the loss or potential loss threshold is **IMMINENT** (i.e., within 1-3 hours). In this IMMINENT LOSS situation, use judgment and classify as if the thresholds are exceeded.
- Referencing this matrix frequently will aid in determining a fission barrier failure or other upgrade criteria.

Enclosure 4.2
System Malfunctions

UNUSUAL EVENT	ALERT	SITE AREA EMERGENCY	GENERAL EMERGENCY
1. *RCS LEAKAGE* (BD 15) **OPERATING MODE:** 1, 2, 3, 4 A. Unidentified leakage ≥ 10 gpm B. Pressure boundary leakage ≥ 10 gpm C. Identified leakage ≥ 25 gpm • Includes SG tube leakage 2. *UNPLANNED* LOSS OF MOST OR ALL SAFETY SYSTEM ANNUNCIATION/ INDICATION IN CONTROL ROOM FOR > 15 MINUTES (BD 16) **OPERATING MODE:** 1, 2, 3, 4 A. *Unplanned* loss of > 50% of the following annunciators on one unit for > 15 minutes: **Units 1 & 3** 1 SA1, 2, 3, 4, 5, 6, 7, 8, 9, 14, 15, 16, & 18 3 SA1, 2, 3, 4, 5, 6, 7, 8, 9, 14, 15, 16, & 18 **Unit 2** 2 SA1, 2, 3, 4, 5, 6, 7, 8, 9, 14, 15, & 16 **AND** Loss of annunciators or indicators requires additional personnel (beyond normal shift complement) to safely operate the unit (CONTINUED)	1. *UNPLANNED* LOSS OF MOST OR ALL SAFETY SYSTEM ANNUNCIATION/ INDICATION IN CONTROL ROOM (BD 20) **OPERATING MODE:** 1, 2, 3, 4 A. *Unplanned* loss of > 50% of the following annunciators on one unit for > 15 minutes: **Units 1 & 3** 1 SA1, 2, 3, 4, 5, 6, 7, 8, 9, 14, 15, 16, & 18 3 SA1, 2, 3, 4, 5, 6, 7, 8, 9, 14, 15, 16, & 18 **Unit 2** 2 SA1, 2, 3, 4, 5, 6, 7, 8, 9, 14, 15, & 16 **AND** Loss of annunciators or indicators requires additional personnel (beyond normal shift complement) to safely operate the unit **AND** *Significant plant transient* in progress **OR** Loss of the OAC and ALL PAM indications (END)	1. INABILITY TO MONITOR A SIGNIFICANT TRANSIENT IN PROGRESS (BD 22) **OPERATING MODE:** 1, 2, 3, 4 A. *Unplanned* loss of > 50% of the following annunciators on one unit for > 15 minutes: **Units 1 & 3** 1 SA1, 2, 3, 4, 5, 6, 7, 8, 9, 14, 15, 16, & 18 3 SA1, 2, 3, 4, 5, 6, 7, 8, 9, 14, 15, 16, & 18 **Unit 2** 2 SA1, 2, 3, 4, 5, 6, 7, 8, 9, 14, 15, & 16 **AND** A *significant transient* is in progress **AND** Loss of the OAC and ALL PAM indications **AND** *Inability to directly monitor* any one of the following functions: 1. Subcriticality 2. Core Cooling 3. Heat Sink 4. RCS Integrity 5. Containment Integrity 6. RCS Inventory (END)	

UNUSUAL EVENT	ALERT	SITE AREA EMERGENCY	GENERAL EMERGENCY
3. INABILITY TO REACH REQUIRED SHUTDOWN WITHIN LIMITS (BD 17) **OPERATING MODE:** 1, 2, 3, 4 A. Required operating mode not reached within TS LCO action statement time **4. *UNPLANNED* LOSS OF ALL ONSITE OR OFFSITE COMMUNICATIONS (BD 18)** **OPERATING MODE:** All A. Loss of all onsite communications capability (Plant phone system, PA system, Pager system, Onsite Radio system) affecting ability to perform Routine operations B. Loss of all onsite communications capability (Selective Signaling, NRC ETS lines, Offsite Radio System, AT&T line) affecting ability to communicate with offsite authorities. **5. FUEL CLAD DEGRADATION (BD 19)** = **OPERATING MODE:** All: A. DEI - >5μCi/ml **(END)**			

Enclosure 4.3
Abnormal Rad Levels/Radiological Effluent

UNUSUAL EVENT

1 ANY *UNPLANNED* RELEASE OF GASEOUS OR LIQUID RADIOACTIVITY TO THE ENVIRONMENT THAT EXCEEDS TWO TIMES THE SLC LIMITS FOR 60 MINUTES OR LONGER (BD 25)

OPERATING MODE: All

A. *Valid* indication on radiation monitor RIA 33 of ≥ 4.06E+06 cpm for > 60 minutes (See Note 1)

B. *Valid* indication on radiation monitor RIA-45 of ≥ 9.35E+05 cpm or RP sample reading of ≥ 6.62E-2uCi/ml Xe 133 eq for > 60 minutes (See Note 1)

C. Liquid effluent being released exceeds two times SLC 16.11.1 for > 60 minutes as determined by Chemistry Procedure

D. Gaseous effluent being released exceeds two times SLC 16.11.2 for > 60 minutes as determined by RP Procedure

NOTE 1: If monitor reading is sustained for the time period indicated in the EAL AND the required assessments (procedure calculations) cannot be completed within this period, declaration must be made on the *valid* Radiation Monitor reading.

(CONTINUED)

ALERT

1. ANY *UNPLANNED* RELEASE OF GASEOUS OR LIQUID RADIOACTIVITY TO THE ENVIRONMENT THAT EXCEEDS 200 TIMES RADIOLOGICAL TECHNICAL SPECIFICATIONS FOR 15 MINUTES OR LONGER (BD 30)

OPERATING MODE: All

A. *Valid* indication of RIA-46 of ≥ 2.09 E+ 04 cpm or RP sample reading of ≥ 6.62 uCi/ml Xe 133 eq for > 15 minutes. (See Note 1)

B RIA 33 **HIGH** Alarm

AND

Liquid effluent being released exceeds 200 times the level of SLC 16.11.1 for > 15 minutes as determined by Chemistry Procedure

C. Gaseous effluent being released exceeds 200 times the level of SLC 16.11.2 for >15 minutes as determined by RP Procedure

(CONTINUED)

SITE AREA EMERGENCY

1. BOUNDARY DOSE RESULTING FROM ACTUAL/IMMINENT RELEASE OF GASEOUS ACTIVITY (BD 35)

OPERATING MODE: All

A. *Valid* reading on RIA 46 of ≥ 2.09E+05 cpm or RIA 56 reading of ≥ 17.5 R/hr or RP sample reading of 6.62E+01 uCi/ml Xe 133 eq for > 15 minutes (See Note 2)

B. *Valid* reading on RIA 57 or 58 as shown on Enclosure 4.8 (See Note 2)

C. Dose calculations result in a dose projection at the *site boundary* of:

≥ 100 mRem TEDE

OR

500 mRem CDE adult thyroid

D. Field survey results indicate *site boundary* dose rates exceeding ≥100 mRad/hr expected to continue for more than one hour

OR

Analyses of field survey samples indicate adult thyroid dose commitment of ≥ 500 mRem CDE (3.84 E^{-7} µCi/ml) for one hour of inhalation

NOTE 2: If actual Dose Assessment cannot be completed within 15 minutes, then the *valid* radiation monitor reading should be used for emergency classification.

(CONTINUED)

GENERAL EMERGENCY

1. BOUNDARY DOSE RESULTING FROM ACTUAL/ IMMINENT RELEASE OF GASEOUS ACTIVITY (BD 39)

OPERATING MODE: All

A. *Valid* reading on RIA 46 of ≥ 2.09E+06 cpm or RIA 56 reading of ≥ 175 R/hr or RP sample reading of 6.62E+02uCi/ml Xe 133 eq for ≥ 15 minutes (See Note 3)

B. *Valid* reading on RIA 57 or 58 as shown on Enclosure 4.8 (See Note 3)

C. Dose calculations result in a dose projection at the *site boundary* of:

≥ 1000 mRem TEDE

OR

≥ 5000 mRem CDE adult thyroid

D. Field survey results indicate *site boundary* dose rates exceeding ≥1000 mRad/hr expected to continue for more than one hour

OR

Analyses of field survey samples indicate adult thyroid dose commitment of ≥ 5000 mRem CDE for one hour of inhalation

NOTE 3: If actual Dose Assessment cannot be completed within 15 minutes, then the *valid* radiation monitor reading should be used for emergency classification.

(END)

UNUSUAL EVENT	ALERT	SITE AREA EMERGENCY	GENERAL EMERGENCY
2 UNEXPECTED INCREASE IN PLANT RADIATION OR AIRBORNE CONCENTRATION (BD 27) **OPERATING MODE:** All A. LT 5 reading 14" and decreasing with makeup not keeping up with leakage **WITH** fuel in the core B. *Valid* indication of *uncontrolled* water decrease in the SFP or fuel transfer canal with all fuel assemblies remaining covered by water **AND** Unplanned *Valid* RIA 3, 6 or Portable Area Monitor readings increase. C. 1 R/hr radiation reading at one foot away from a damaged storage cask located at the ISFSI D. *Valid* area monitor readings exceeds limits stated in Enclosure 4.9. **NOTE:** This Initiating Condition is also located in Enclosure 4.4., (Loss of Shutdown Functions). High radiation levels will also be seen with this condition. (END)	**2. RELEASE OF RADIOACTIVE MATERIAL OR INCREASES IN RADIATION LEVELS THAT IMPEDES OPERATION OF SYSTEMS REQUIRED TO MAINTAIN SAFE OPERATION OR TO ESTABLISH OR MAINTAIN COLD SHUTDOWN (BD 32)** **OPERATING MODE:** All A. *Valid* radiation reading ≥ 15 mRad/hr in CR, CAS, or Radwaste CR B. *Unplanned*/unexpected *valid* area monitor readings exceed limits stated in Enclosure 4.9 **NOTE:** These readings may also be indicative of Fission Product Barrier concerns which makes a review of the Fission Product Barrier Matrix necessary. **3. MAJOR DAMAGE TO IRRADIATED FUEL OR LOSS OF WATER LEVEL THAT HAS OR WILL RESULT IN THE UNCOVERING OF IRRADIATED FUEL OUTSIDE THE REACTOR VESSEL (BD 33)** **OPERATING MODE:** All A. *Valid* RIA 3*, 6, 41, OR 49* **HIGH** Alarm * - Applies to Mode 6 and No Mode Only B. **HIGH** Alarm for portable area monitors on the main bridge or SFP bridge C. Report of visual observation of irradiated fuel uncovered D. Operators determine water level drop in either the SFP or fuel transfer canal will exceed makeup capacity such that irradiated fuel will be uncovered **NOTE:** This Initiating Condition is also located in Enclosure 4.4., (Loss of Shutdown Functions). High radiation levels will also be seen with this condition. (END)	**2. LOSS OF WATER LEVEL IN THE REACTOR VESSEL THAT HAS OR WILL UNCOVER FUEL IN THE REACTOR VESSEL (BD 38)** **OPERATING MODE:** 5, 6 A. Loss of all decay heat removal as indicated by the inability to maintain RCS temperature below 200° F **AND** LT 5 indicates 0 inches after initiation of RCS makeup B. Loss of all decay heat removal as indicated by the inability to maintain RCS temperature below 200° F **AND** Either train ultrasonic level indication less than 0 inches and decreasing after initiation of RCS makeup **NOTE:** This Initiating Condition is also located in Enclosure 4.4., (Loss of Shutdown Functions). High radiation levels will also be seen with this condition. (END))	

Enclosure 4.4
Loss of Shutdown Functions

UNUSUAL EVENT	ALERT	SITE AREA EMERGENCY	GENERAL EMERGENCY
(CONTINUE TO NEXT PAGE)	**1. FAILURE OF RPS TO COMPLETE OR INITIATE A Rx SCRAM (BD 44)** **OPERATING MODE** 1, 2, 3 A. *Valid* reactor trip signal received or required **WITHOUT** automatic scram **AND** DSS has inserted Control Rods **OR** Manual trip from the Control Room is successful and reactor power is less than 5% and decreasing **2. INABILITY TO MAINTAIN PLANT IN MODE 5 (COLD SHUTDOWN) (BD 46)** **OPERATING MODE:** 5, 6 A. Loss of LPI and/or LPSW **AND** Inability to maintain RCS temperature below 200° F as indicated by either of the following: RCS temperature at the LPI Pump Suction **OR** Average of the 5 highest CETCs as indicated by ICCM display **OR** Visual observation **(CONTINUED)**	**1. FAILURE OF RPS TO COMPLETE OR INITIATE A Rx SCRAM (BD 50)** **OPERATING MODE:** 1, 2 A. *Valid* reactor trip signal received or required **WITHOUT** automatic scram **AND** DSS has **NOT** inserted Control Rods **AND** Manual trip from the Control Room was **NOT** successful in reducing reactor power to less than 5% and decreasing **2. COMPLETE LOSS OF FUNCTION NEEDED TO ACHIEVE OR MAINTAIN MODE 4 (HOT SHUTDOWN) (BD 51)** **OPERATING MODE:** 1, 2, 3, 4 A. Average of the 5 highest CETCs ≥1200° F shown on ICCM B. Unable to maintain reactor subcritical C. EOP directs feeding SG from SSF ASWP or PSW Pump **(CONTINUED)**	**1. FAILURE OF RPS TO COMPLETE** **OPERATING MODE:** 1, 2 A. *Valid* Rx trip signal received or required **WITHOUT** automatic scram **AND** Manual trip from the Control Room was **NOT** successful in reducing reactor power to < 5% and decreasing **AND** Average of the 5 highest CETCs ≥1200° F on ICCM **(END)**

Enclosure 4.4
Loss of Shutdown Functions

UNUSUAL EVENT	ALERT	SITE AREA EMERGENCY	GENERAL EMERGENCY
1. UNEXPECTED INCREASE IN PLANT RADIATION OR AIRBORNE CONCENTRATION (BD 42) **OPERATING MODE:** All A. LT 5 reading 14" and decreasing with makeup not keeping up with leakage **WITH** fuel in the core B. *Valid* indication of *uncontrolled* water decrease in the SFP or fuel transfer canal with all fuel assemblies remaining covered by water **AND** *Unplanned Valid* RIA 3, 6 or Portable Area Monitor readings increase. C. 1 R/hr radiation reading at one foot away from a damaged storage cask located at the ISFSI D. *Valid* area monitor readings exceeds limits stated in Enclosure 4.9. **NOTE:** This Initiating Condition is also located in Enclosure 4.3., (Abnormal Rad Levels/Radiological Effluent). High radiation levels will also be seen with this condition. **(END)**	**3. MAJOR DAMAGE TO IRRADIATED FUEL OR LOSS OF WATER LEVEL THAT HAS OR WILL RESULT IN THE UNCOVERING OF IRRADIATED FUEL OUTSIDE THE REACTOR VESSEL (BD 48)** **OPERATING MODE:** All A. *Valid* RIA 3*, 6, 41, OR 49* **HIGH** Alarm *Applies to Mode 6 and No Mode Only B. **HIGH** Alarm for portable area monitors on the main bridge or SFP bridge C Report of visual observation of irradiated fuel uncovered D. Operators determine water level drop in either the SFP or fuel transfer canal will exceed makeup capacity such that irradiated fuel will be uncovered **NOTE:** This Initiating Condition is also located in Enclosure 4.3, (Abnormal Rad Levels/Radiological Effluent). High radiation levels will also be seen with this condition. **(END)**	**3. LOSS OF WATER LEVEL IN THE REACTOR VESSEL THAT HAS OR WILL UNCOVER FUEL IN THE REACTOR VESSEL (BD 52)** **OPERATING MODE:** 5, 6 A. Loss of all decay heat removal as indicated by the inability to maintain RCS temperature below 200° F **AND** LT-5 indicates 0 inches after initiation of RCS Makeup B. Loss of all decay heat removal as indicated by the inability to maintain RCS temperature below 200° F **AND** Either train ultrasonic level indication less than 0 inches and decreasing after initiation of RCS makeup **NOTE:** This Initiating Condition is also located in Enclosure 4.3, (Abnormal Rad Levels/Radiological Effluent). High radiation levels will also be seen with this condition. **(END)**	

Enclosure 4.5
Loss of Power {4}

UNUSUAL EVENT	ALERT	SITE AREA EMERGENCY	GENERAL EMERGENCY
1. LOSS OF ALL OFFSITE POWER TO ESSENTIAL BUSSES FOR GREATER THAN 15 MINUTES (BD 55) **OPERATING MODE:** All A. Unit auxiliaries are being supplied from Keowee or CT5 **AND** Inability to energize either MFB from an offsite source (either switchyard) within 15 minutes.	**1. LOSS OF ALL OFFSITE AC POWER AND LOSS OF ALL ONSITE AC POWER TO ESSENTIAL BUSSES (BD 57)** **OPERATING MODE:** 5, 6 Defueled A. MFB 1 and 2 de-energized **AND** Failure to restore power to at least one MFB within 15 minutes from the time of loss of both offsite and onsite AC power	**1. LOSS OF ALL OFFSITE AC POWER AND LOSS OF ALL ONSITE AC POWER TO ESSENTIAL BUSSES (BD 59)** **OPERATING MODE:** 1, 2, 3, 4 A. MFB 1 and 2 de-energized **AND** Failure to restore power to at least one MFB within 15 minutes from the time of loss of both offsite and onsite AC power	**1. PROLONGED LOSS OF ALL OFFSITE POWER AND ONSITE AC POWER (BD 62)** **OPERATING MODE:** 1, 2, 3, 4 A. MFB 1 and 2 de-energized **AND** SSF fails to maintain Mode 3 (Hot Standby) {1} **AND** At least one of the following conditions exist: Restoration of power to at least one MFB within 4 hours is NOT likely **OR** Indications of continuing degradation of core cooling based on Fission Product Barrier monitoring **(END)**
2. *UNPLANNED* LOSS OF REQUIRED DC POWER FOR GREATER THAN 15 MINUTES (BD 56) **OPERATING MODE:** 5, 6 A. *Unplanned* loss of vital DC power to required DC busses as indicated by bus voltage less than 110 VDC **AND** Failure to restore power to at least one required DC bus within 15 minutes from the time of loss **(END)**	**2. AC POWER CAPABILITY TO ESSENTIAL BUSSES REDUCED TO A SINGLE SOURCE FOR GREATER THAN 15 MINUTES (BD 58)** **OPERATING MODE:** 1, 2, 3, 4 A. AC power capability has been degraded to a single power source for > 15 minutes due to the loss of all but one of the following: Unit Normal Transformer (backcharged) Unit SU Transformer Another Unit SU Transformer (aligned) CT4 CT5 **(END)**	**2. LOSS OF ALL VITAL DC POWER (BD 60)** **OPERATING MODE:** 1, 2, 3, 4 A. *Unplanned* loss of *vital* DC power to required DC busses as indicated by bus voltage less than 110 VDC **AND** Failure to restore power to at least one required DC bus within 15 minutes from the time of loss **(END)**	

Loss of Power - Emergency Action Levels (EALs) apply to the ability of electrical energy to perform its intended function, reach its intended equipment. ex. - If both MFBs, are energized but all 4160V switchgear is not available, the electrical energy can not reach the motors intended. The result to the plant is the same as if both MFBs were de-energized. {4}

Enclosure 4.6
Fire/Explosions and Security Actions {2} {3}

UNUSUAL EVENT	ALERT	SITE AREA EMERGENCY	GENERAL EMERGENCY
1. *FIRES/EXPLOSIONS* WITHIN THE PLANT (BD 65) **OPERATING MODE:** All **NOTE:** Within the plant means: Turbine Building Auxiliary Building Reactor Building Keowee Hydro Transformer Yard B3T B4T Service Air Diesel Compressors Keowee Hydro & associated Transformers SSF A. Fire within the plant not extinguished within 15 minutes of Control Room notification or verification of a Control Room alarm B. Unanticipated *explosion* within the plant resulting in *visible damage* to permanent structures/equipment • includes steam line break and FDW line break **(Continued)**	1. *FIRE/EXPLOSION* AFFECTING OPERABILITY OF PLANT SAFETY SYSTEMS REQUIRED TO ESTABLISH/MAINTAIN SAFE SHUTDOWN (BD 70) **OPERATING MODE:** All **NOTE:** Only one train of a system needs to be affected or damaged in order to satisfy this condition. A. *Fire/explosions* **AND** Affected safety-related system parameter indications show degraded performance **OR** Plant personnel report *visible damage* to permanent structures or equipment required for safe shutdown **(Continued)**	**(CONTINUE TO NEXT PAGE)**	**(CONTINUE TO NEXT PAGE)**

Enclosure 4.6
Fire/Explosions and Security Actions (2) (3)

UNUSUAL EVENT	ALERT	SITE AREA EMERGENCY	GENERAL EMERGENCY
2. CONFIRMED SECURITY CONDITION OR THREAT WHICH INDICATES A POTENTIAL DEGRADATION IN THE LEVEL OF SAFETY OF THE PLANT (BD 67) **OPERATING MODE:** All A. Security condition that does not involve a HOSTILE ACTION as reported by the Security Shift Supervision. B. A *credible* site-specific security threat notification C. A validated notification from NRC providing information of an aircraft threat **3. OTHER CONDITIONS EXIST WHICH IN THE JUDGEMENT OF THE EMERGENCY DIRECTOR WARRANT DECLARATION OF A NOUE. (BD 69)** **OPERATING MODE:** All A. Other conditions exist which in the judgment of the Emergency Director indicate that events are in progress or have occurred which indicate a potential degradation of the level of safety of the plant or indicate a security threat to facility protection has been initiated. No releases of radioactive material requiring off-site response or monitoring are expected unless further degradation of safety systems occurs. (END)	**2 HOSTILE ACTION WITHIN THE OWNER CONTROLLED AREA OR AIRBORNE ATTACK THREAT. (BD 72)** **OPERATING MODE:** All A. A HOSTILE ACTION is occurring or has occurred within the OWNER CONTROLLED AREA as reported by the Security Shift Supervision. B. A validated notification from NRC of an AIRLINER attack threat within 30 minutes of the site. **3. OTHER CONDITIONS EXIST WHICH IN THE JUDGEMENT OF THE EMERGENCY DIRECTOR WARRANT DECLARATION OF AN ALERT (BD 75)** **OPERATING MODE:** All A. Other conditions exist which in the judgment of the Emergency Director indicate that events are in progress or have occurred which involve an actual or potential substantial degradation of the level of safety of the plant or a security event that involves probable life threatening risk to site personnel or damage to site equipment because of HOSTILE ACTION. Any releases are expected to be limited to small fractions of the EPA Protective Action Guideline exposure levels. (END)	**1. HOSTILE ACTION within the PROTECTED AREA (BD 76)** **OPERATING MODE:** All A. A HOSTILE ACTION is occurring or has occurred within the PROTECTED AREA as reported by the Security Shift Supervision. **2. OTHER CONDITIONS EXIST WHICH IN THE JUDGEMENT OF THE EMERGENCY DIRECTOR WARRANT DECLARATION OF A SITE AREA EMERGENCY. (BD 78)** **OPERATING MODE:** All A. Other conditions exist which in the judgment of the Emergency Director indicate that events are in progress or have occurred which involve actual or likely major failures of plant functions needed for protection of the public or HOSTILE ACTION that results in intentional damage or malicious acts; (1) toward site personnel or equipment that could lead to the likely failure of or; (2) that prevent effective access to equipment needed for the protection of the public. Any releases are not expected to result in exposure levels which exceed EPA Protective Action Guideline exposure levels beyond the site boundary. (END)	**1. A HOSTILE ACTION RESULTING IN LOSS OF PHYSICAL CONTROL OF THE FACILITY (BD 79)** **OPERATING MODE:** All A. A HOSTILE ACTION has occurred such that plant personnel are unable to operate equipment required to maintain safety functions B. A HOSTILE ACTION has caused failure of Spent Fuel Cooling Systems and IMMINENT fuel damage is likely for a freshly off-loaded reactor core in pool. **2. OTHER CONDITIONS EXIST WHICH IN THE JUDGMENT OF THE EMERGENCY DIRECTOR WARRANT DECLARATION OF A GENERAL EMERGENCY. (BD 81)** **OPERATING MODE:** All A. Other conditions exist which in the judgment of the Emergency Director indicate that events are in progress or have occurred which involve actual or IMMINENT substantial core degradation or melting with potential for loss of containment integrity or HOSTILE ACTION that results in an actual loss of physical control of the facility. Releases can be reasonably expected to exceed EPA Protective Action Guideline exposure levels off-site for more than the immediate site area. (END)

Enclosure 4.7
Natural Disasters, Hazards and Other Conditions Affecting Plant Safety

UNUSUAL EVENT	ALERT	SITE AREA EMERGENCY	GENERAL EMERGENCY
1. NATURAL AND DESTRUCTIVE PHENOMENA AFFECTING THE *PROTECTED AREA* (BD 83) **OPERATING MODE:** All A. Tremor felt and *valid* alarm on the strong motion accelerograph B Tornado striking within *Protected Area* Boundary C. Vehicle crash into plant structures/systems within the *Protected Area* Boundary D. Turbine failure resulting in casing penetration or damage to turbine or generator seals **(CONTINUED)**	**1. NATURAL AND DESTRUCTIVE PHENOMENA AFFECTING THE PLANT *VITAL* AREA (BD 89)** **OPERATING MODE:** All A. Tremor felt and seismic trigger actuates (0.05g) **NOTE:** Only one train of a safety-related system needs to be affected or damaged in order to satisfy these conditions. B. Tornado, high winds, missiles resulting from turbine failure, vehicle crashes, or other catastrophic event. **AND** *Visible damage* to permanent structures or equipment required for safe shutdown of the unit. **OR** Affected safety system parameter indications show degraded performance. **(CONTINUED)**	**(CONTINUE TO NEXT PAGE)**	**(CONTINUE TO NEXT PAGE)**

Enclosure 4.7
Natural Disasters, Hazards and Other Conditions Affecting Plant Safety

UNUSUAL EVENT	ALERT	SITE AREA EMERGENCY	GENERAL EMERGENCY
2. NATURAL AND DESTRUCTIVE PHENOMENA AFFECTING KEOWEE HYDRO CONDITION B (BD 85) **OPERATING MODE:** All A. Reservoir elevation ≥ 805.0 feet with all spillway gates open and the lake elevation continues to rise B. Seepage readings increase or decrease greatly or seepage water is carrying a significant amount of soil particles C New area of seepage or wetness, with large amounts of seepage water observed on dam, dam toe, or the abutments D. Slide or other movement of the dam or abutments which could develop into a failure E. Developing failure involving the powerhouse or appurtenant structures and the operator believes the safety of the structure is questionable **3. NATURAL AND DESTRUCTIVE PHENOMENA AFFECTING JOCASSEE HYDRO CONDITION B (BD 86)** **OPERATING MODE:** All A. Condition B has been declared for the Jocassee Dam **(CONTINUED)**	**2. RELEASE OF TOXIC/FLAMMABLE GASES JEOPARDIZING SYSTEMS REQUIRED TO MAINTAIN SAFE OPERATION OR ESTABLISH/ MAINTAIN MODE 5 (COLD SHUTDOWN) (BD 91)** **OPERATING MODE:** All A. Report/detection of *toxic gases* in concentrations that will be life-threatening to plant personnel B. Report/detection of flammable gases in concentrations that will affect the safe operation of the plant: • Reactor Building • Auxiliary Building • Turbine Building • Control Room **3. TURBINE BUILDING FLOOD (BD 93)** **OPERATING MODE:** All A. Turbine Building flood requiring use of AP/1,2,3/A/1700/10, (Turbine Building Flood) **4. CONTROL ROOM EVACUATION HAS BEEN INITIATED (BD 94)** **OPERATING MODE:** All A. Evacuation of Control Room **AND ONE OF THE FOLLOWING:** Plant control **IS** established from the Aux shutdown Panel or the SSF **OR** Plant control **IS BEING** established from the Aux Shutdown Panel or SSF **(CONTINUED)**	**1. CONTROL ROOM EVACUATION AND PLANT CONTROL CANNOT BE ESTABLISHED (BD 96)** **OPERATING MODE:** All A. Control Room evacuation has been initiated **AND** Control of the plant cannot be established from the Aux Shutdown Panel or the SSF within 15 minutes **2. KEOWEE HYDRO DAM FAILURE - (BD 97)** **OPERATING MODE:** All A. Imminent/actual dam failure exists involving any of the following: • Keowee Hydro Dam • Little River Dam • Dikes A, B, C, or D • Intake Canal Dike • Jocassee Dam - Condition A **(CONTINUED)**	**(CONTINUE TO NEXT PAGE)**

Enclosure 4.7
Natural Disasters, Hazards and Other Conditions Affecting Plant Safety

UNUSUAL EVENT	ALERT	SITE AREA EMERGENCY	GENERAL EMERGENCY
4. RELEASE OF TOXIC OR FLAMMABLE GASES DEEMED DETRIMENTAL TO SAFE OPERATION OF THE PLANT (BD 87) **OPERATING MODE:** All A. Report/detection of toxic or flammable gases that could enter within the site area boundary in amounts that can affect normal operation of the plant B. Report by local, county, state officials for potential evacuation of site personnel based on offsite event **5. OTHER CONDITIONS EXIST WHICH WARRANT DECLARATION OF AN *UNUSUAL EVENT* (BD 88)** **OPERATING MODE:** All A. Emergency Coordinator determines potential degradation of level of safety has occurred **(END)**	**5. OTHER CONDITIONS WARRANT CLASSIFICATION OF AN *ALERT* (BD 95)** **OPERATING MODE:** All A. Emergency Coordinator judgment indicates that: Plant safety may be degraded **AND** Increased monitoring of plant functions is warranted **(END)**	**3. OTHER CONDITIONS WARRANT DECLARATION OF SITE AREA EMERGENCY (BD 98)** **OPERATING MODE:** All A. Emergency Coordinator/EOF Director judgment **(END)**	**1. OTHER CONDITIONS WARRANT DECLARATION OF GENERAL EMERGENCY (BD 99)** **OPERATING MODE:** All A. Emergency Coordinator/EOF Director judgment indicates: Actual/imminent substantial core degradation with potential for loss of containment **OR** Potential for *uncontrolled* radionuclide releases that would result in a dose projection at the site boundary greater than 1000 mRem TEDE or 5000 mRem CDE Adult Thyroid **(END)**

Enclosure 4.8
Radiation Monitor Readings for Emergency Classification

All RIA values are considered GREATER THAN or EQUAL TO

HOURS SINCE REACTOR TRIPPED	RIA 57 R/hr		RIA 58 R/hr*	
	Site Area Emergency	General Emergency	Site Area Emergency	General Emergency
0.0 - < 0.5	5.9E+003	5.9E+004	2.6E+003	2.6E+004
0.5 - < 1.0	2.6E+003	2.6E+004	1.1E+003	1.1E+004
1.0 - < 1.5	1.9E+003	1.9E+004	8.6E+002	8.6E+003
1.5 - < 2.0	1.9E+003	1.9E+004	8.5E+002	8.5E+003
2.0 - < 2.5	1.4E+003	1.4E+004	6.3E+002	6.3E+003
2.5 - < 3.0	1.2E+003	1.2E+004	5.7E+002	5.7E+003
3.0 - < 3.5	1.1E+003	1.1E+004	5.2E+002	5.2E+003
3.5 - < 4.0	1.0E+003	1.0E+004	4.8E+002	4.8E+003
4.0 - < 8.0	1.0E+003	1.0E+004	4.4E+002	4.4E+003

*** RIA 58 is partially shielded**

Enclosure 4.9
Unexpected/Unplanned Increase In Area Monitor Readings

NOTE: This Initiating Condition is not intended to apply to anticipated temporary increases due to planned events (e.g.; incore detector movement, radwaste container movement, depleted resin transfers, etc.).

MONITOR NUMBER	UNITS 1, 2, 3	
	UNUSUAL EVENT 1000x NORMAL LEVELS mRAD/HR	*ALERT* mRAD/HR
RIA 7, Hot Machine Shop Elevation 796	150	≥ 5000
RIA 8, Hot Chemistry Lab Elevation 796	4200	≥ 5000
RIA 10, Primary Sample Hood Elevation 796	830	≥ 5000
RIA 11, Change Room Elevation 796	210	≥ 5000
RIA 12, Chem Mix Tank Elevation 783	800	≥ 5000
RIA 13, Waste Disposal Sink Elevation 771	650	≥ 5000
RIA 15, HPI Room Elevation 758	NOTE*	≥ 5000

NOTE: RIA 15 normal readings are approximately 9 mRad/hr on a daily basis. Applying 1000x normal readings would put this monitor greater than 5000 mRad/hr just for an *Unusual Event*. For this reason, an *Unusual Event* will **NOT** be declared for a reading less than 5000 mRad/hr.

1. List of Definitions and Acronyms

NOTE:	Definitions are italicized throughout procedure for easy recognition.

1.1 **ALERT** - Events are in process or have occurred which involve an actual or potential substantial degradation of the level of safety of the plant or a security event that involves probable life threatening risk to site personnel or damage to site equipment because of HOSTILE ACTION. Any releases are expected to be limited to small fractions of the EPA Protective Action Guideline exposure levels.

1.2 **BOMB** – Refers to an explosive device suspected of having sufficient force to damage plant systems or structures.

1.3 **COGNIZANT FACILITY STAFF** - any member of facility staff, who by virtue of training and experience, is qualified to assess the indications or reports for validity and to compare the same to the EALs in the licensee's emergency classification scheme. (Does not include staff whose positions require they report, rather than assess, abnormal conditions to the facility.)

1.4 **CONDITION A** - Failure is Imminent or Has Occurred - A failure at the dam has occurred or is about to occur and minutes to days may be allowed to respond dependent upon the proximity to the dam.

1.5 **CONDITION B** - Potentially Hazardous Situation is Developing - A situation where failure may develop, but preplanned actions taken during certain events (such as major floods, earthquakes, evidence of piping) may prevent or mitigate failure.

1.6 **CIVIL DISTURBANCE** - A group of persons violently protesting station operations or activities at the site.

1.7 **EXPLOSION** - A rapid, violent, unconfined combustion, or catastrophic failure of pressurized/energized equipment that imparts energy of sufficient force to potentially damage permanent structures, systems, or components.

1.7 **EXTORTION** - An attempt to cause an action at the station by threat of force.

1.8 **FIRE** - Combustion characterized by heat and light. Sources of smoke, such as slipping drive belts or overheated electrical equipment, do NOT constitute *fires*. Observation of flames is preferred but is NOT required if large quantities of smoke and heat are observed.

1.9 **FRESHLY OFF-LOADED CORE** - The complete removal and relocation of all fuel assemblies from the reactor core and placed in the spent fuel pool. (Typical of a "No Mode" operation during a refuel outage that allows safety system maintenance to occur and results in maximum decay heat load in the spent fuel pool system).

1.10 **GENERAL EMERGENCY** - Events are in process or have occurred which involve actual or imminent substantial core degradation or melting with potential for loss of containment integrity or HOSTILE ACTION that results in an actual loss of physical control of the facility. Releases can be reasonably expected to exceed EPA Protective Action Guidelines exposure levels offsite for more than the immediate area.

1.11 **HOSTAGE** - A person(s) held as leverage against the station to ensure demands will be met by the station.

1.12 **HOSTILE ACTION** - An act toward an NPP or its personnel that includes the use of violent force to destroy equipment, takes HOSTAGES, and/or intimidates the licensee to achieve an end. This includes attack by air, land, or water using guns, explosives, PROJECTILES, vehicles, or other devices used to deliver destructive force. Other acts that satisfy the overall intent may be included. HOSTILE ACTION should not be construed to include acts of civil disobedience or felonious acts that are not part of a concerted attack on the NPP. Non-terrorism-based EALs should be used to address such activities, (e.g., violent acts between individuals in the owner controlled area.)

1.13 **HOSTILE FORCE** - One or more individuals who are engaged in a determined assault, overtly or by stealth and deception, equipped with suitable weapons capable of killing, maiming, or causing destruction.

1.14 **IMMINENT** - Mitigation actions have been ineffective, additional actions are not expected to be successful, and trended information indicates that the event or condition will occur. Where IMMINENT timeframes are specified, they shall apply.

1.15 **INTRUSION** – A person(s) present in a specified area without authorization. Discovery of a BOMB in a specified area is indication of INTRUSION into that area by a HOSTILE FORCE.

1.16 **INABILITY TO DIRECTLY MONITOR** - Operational Aid Computer data points are unavailable or gauges/panel indications are NOT readily available to the operator.

1.17 **LOSS OF POWER** – Emergency Action Levels (EALs) apply to the ability of electrical energy to perform its intended function, reach its intended equipment. Ex. – If both MFBs, are energized but all 4160v switchgear is not available, the electrical energy can not reach the motors intended. The result to the plant is the same as if both MFBs were de-energized.

1.18 **PROJECTILE** – An object directed toward a NPP that could cause concern for its continued operability, reliability, or personnel safety.

1.19 **PROTECTED AREA** – Typically the site specific area which normally encompasses all controlled areas within the security PROTECTED AREA fence.

1.20 **REACTOR COOLANT SYSTEM (RCS) LEAKAGE** – RCS Operational Leakage as defined in the Technical Specification Basis B 3.4.13:

RCS leakage includes leakage from connected systems up to and including the second normally closed valve for systems which do not penetrate containment and the outermost isolation valve for systems which penetrate containment.

A. Identified LEAKAGE

LEAKAGE to the containment from specifically known and located sources, but does not include pressure boundary LEAKAGE or controlled reactor coolant pump (RCP) seal leakoff (a normal function not considered LEAKAGE).

LEAKAGE, such as that from pump seals, gaskets, or valve packing (except RCP seal water injection or leakoff), that is captured and conducted to collection systems or a sump or collecting tank;

LEAKAGE through a steam generator (SG) to the Secondary System (primary to secondary LEAKAGE): Primary to secondary LEAKAGE must be included in the total calculated for identified LEAKAGE.

B. Unidentified LEAKAGE

All LEAKAGE (except RCP seal water injection or leakoff) that is not identified LEAKAGE.

C. Pressure Boundary LEAKAGE

LEAKAGE (except primary to secondary LEAKAGE) through a nonisolable fault in an RCS component body, pipe wall or vessel wall.

1.21 **RUPTURED** (As relates to Steam Generator) - Existence of Primary to Secondary leakage of a magnitude sufficient to require or cause a reactor trip and safety injection.

1.22 **SABOTAGE** - Deliberate damage, mis-alignment, or mis-operation of plant equipment with the intent to render the equipment inoperable. Equipment found tampered with or damaged due to malicious mischief may not meet the definition of SABOTAGE until this determination is made by security supervision.

1.23 **SECURITY CONDITION** – Any Security Event as listed in the approved security contingency plan that constitutes a threat/compromise to site security, threat/risk to site personnel, or a potential degradation to the level of safety of the plant. A SECURITY CONDITION does not involve a HOSTILE ACTION.

1.24 **SAFETY-RELATED SYSTEMS AREA** - Any area within the *Protected area* which contains equipment, systems, components, or material, the failure, destruction, or release of which could directly or indirectly endanger the public health and safety by exposure to radiation.

1.25 **SELECTED LICENSEE COMMITMENT (SLC)** -Chapter 16 of the FSAR

1.26 **SIGNIFICANT PLANT TRANSIENT** - An *unplanned* event involving one or more of the following:

(1) Automatic turbine runback>25% thermal reactor power
(2) Electrical load rejection >25% full electrical load
(3) Reactor Trip
(4) Safety Injection System Activation

1.27 **SITE AREA EMERGENCY** - Events are in process or have occurred which involve actual or likely major failures of plant functions needed for the protection of the public. or HOSTILE ACTION that results in intentional damage or malicious act; (1) toward site personnel or equipment that could lead to the likely failure of or; (2) that prevents effective access to equipment needed for the protection of the public. Any releases are NOT expected to result in exposure levels which exceed EPA Protective Action Guideline exposure levels beyond the Site Boundary.

1.28 **SITE BOUNDARY** - That area, including the *Protected Area*, in which DPC has the authority to control all activities including exclusion or removal of personnel and property (1 mile radius from the center of Unit 2).\

1.29 **TOXIC GAS** - A gas that is dangerous to life or health by reason of inhalation or skin contact (e.g.; Chlorine).

1.30 **UNCONTROLLED** - Event is not the result of planned actions by the plant staff.

1.31 **UNPLANNED** - An event or action is UNPLANNED if it is not the expected result of normal operations, testing, or maintenance. Events that result in corrective or mitigative actions being taken in accordance with abnormal or emergency procedures are UNPLANNED.

1.32 **UNUSUAL EVENT** - Events are in process or have occurred which indicate a potential degradation of the level of safety of the plant or indicate a security threat to facility protection has been initiated. No releases of radioactive material requiring offsite response or monitoring are expected unless further degradation of safety systems occurs.

1.33 **VALID** - An indication or report or condition is considered to be VALID when it is conclusively verified by: (1) an instrument channel check; or, (2) indications on related or redundant instrumentation; or, (3) by direct observation by plant personnel such that doubt related to the instrument's operability, the condition's existence, or the report's accuracy is removed. Implicit with this definition is the need for timely assessment.

1.34 **VIOLENT** - Force has been used in an attempt to injure site personnel or damage plant property.

1.35 **VISIBLE DAMAGE** - Damage to equipment or structure that is readily observable without measurements, testing, or analyses. Damage is sufficient to cause concern regarding the continued operability or reliability of affected safety structure, system, or component. Example damage: deformation due to heat or impact, denting, penetration, rupture.

1.36 **VITAL AREA** - An area <u>within</u> the protected area where an individual is required to badge in to gain access to the area <u>and</u> that houses equipment important for nuclear safety. The failure or destruction of this equipment could directly or indirectly endanger the public health and safety by exposure to radiation.

Enclosure 4.11
Operating Modes Defined In Improved Technical Specifications

MODES

MODE	TITLE	REACTIVITY CONDITION (K_{eff})	% RATED THERMAL POWER (a)	AVERAGE REACTOR COOLANT TEMPERATURE (°F)
1	Power Operation	≥0.99	> 5	NA
2	Startup	≥0.99	≤5	NA
3	Hot Standby	<0.99	NA	≥250
4	Hot Shutdown (b)	< 0.99	NA	250 > T > 200
5	Cold Shutdown (b)	< 0.99	NA	≤ 200
6	Refueling (c)	NA	NA	NA

(a) Excluding decay heat.

(b) All reactor vessel head closure bolts fully tensioned.

(c) One or more reactor vessel head closure bolts less than fully tensioned

1. Instructions For Using Enclosure 4.1 – Fission Product Barrier Matrix

1.1 If the unit was at Hot S/D or above, (Modes 1, 2, 3, or 4) and one or more fission product barriers have been affected, refer to Enclosure 4.1, (Fission Product Barrier Matrix) and review the criteria listed to determine if the event should be classified.

1.1.1 For each Fission Product Barrier, review the associated EALs to determine if there is a Loss or Potential Loss of that barrier.

NOTE: An event with multiple events could occur which would result in the conclusion that exceeding the loss or potential loss thresholds is imminent (i.e. within 1-3 hours). In this situation, use judgement and classify as if the thresholds are exceeded.

1.2 Three possible outcomes exist for each barrier. No challenge, potential loss, or loss. Use the worst case for each barrier and the classification table at the bottom of the page to determine appropriate classification.

1.3 The numbers in parentheses out beside the label for each column can be used to assist in determining the classification. If no EAL is met for a given barrier, that barrier will have 0 points. The points for the columns are as follows:

Barrier	Failure	Points
RCS	Potential Loss	4
	Loss	5
Fuel Clad	Potential Loss	4
	Loss	5
Containment	Potential Loss	1
	Loss	3

1.3.1 To determine the classification, add the highest point value for each barrier to determine a total for all barriers. Compare this total point value with the numbers in parentheses beside each classification to see which one applies.

1.3.2 Finally as a verification of your decision, look below the Emergency Classification you selected. The loss and/or potential loss EALs selected for each barrier should be described by one of the bullet statements.

EXAMPLE: Failure to properly isolate a 'B' MS Line Rupture outside containment, results in extremely severe overcooling.

PTS entry conditions were satisfied.

Stresses on the 'B' S/G resulted in failure of multiple S/G tubes.

RCS leakage through the S/G exceeds available makeup capacity as indicated by loss of subcooling margin.

Barrier	EAL	Failure	Points
RCS	SGTR > Makeup capacity of one HPI pump in normal makeup mode with letdown isolated	Potential Loss	4
	Entry into PTS operating range	Potential Loss	4
	RCS leak rate > available makeup capacity as indicated by a loss of subcooling	Loss	5
Fuel Clad	No EALs met and no justification for classification on judgment	No Challenge	0
Containment	Failure of secondary side of SG results in a direct opening to the environment	Loss	3

RCS _5_ + Fuel _0_ + Containment _3_ = Total _8_

A. Even though two Potential Loss EALs and one Loss EAL are met for the RCS barrier, credit is only taken for the worst case (highest point value) EAL, so the points from this barrier equal 5.

B. No EAL is satisfied for the Fuel Clad Barrier so the points for this barrier equal 0.

C. One Loss EAL is met for the Containment Barrier so the points for this barrier equal 3.

D. When the total points are calculated the result is 8, therefore the classification would be a *Site Area Emergency*.

E. Look in the box below "*Site Area Emergency*". You have identified a loss of two barriers. This agrees with one of the bullet statements. The classification is correct.

1 References:

1. PIP O-05-02980
2. PIP O-05-4697
3. PIP O-06-0404
4. PIP O-06-03347
5. PIP O-09-00234
6. PIP O-10-1055
7. PIP O-10-01750
8. PIP O-11-02811
9. PIP O-12-1590
10. PIP O-10-7809
11. PIP O-12-9201
12. PIP O-12-9198
13. PIP O-12-11227
14. PIP O-14-10064 and PIP O-14-11470
15. PIP O-13-6662

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/1000/001
2. Revision No.: 002
3. Change No.: __ **Note:** if this package is for a change, replace hyphen with a letter.
4. Procedure Title: Emergency Classification
5. For changes only, enter procedure sections affected: __
6. Prepared By: Natalie Harness NH
7. Preparation Date: 11/25/2014
8. PCR Numbers Included in Revision: ONS-2014-05916

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.

Form 703-1. Procedure Process Record (PPR)

(R08-10)

Duke Energy

PROCEDURE PROCESS RECORD

(1) ID No. RP/0/A/1000/001

Revision No. 002

PREPARATION

(2) Station OCONEE NUCLEAR STATION

(3) Procedure Title Emergency Classification

(4) Prepared By* Natalie Harness (Signature) Natalie Harness Date 11/25/2014

(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* Dorthea A. Cearl (QR)(KI) Date 12-9-14

Cross-Disciplinary Review By* David P Garland DAVID P GARLAND (QR)(KI) NA___ Date 12-1-14

Reactivity Mgmt Review By* _____ (QR) NA N/A Date 12-9-14

Mgmt Involvement Review By* _____ (Ops. Supt.) NA N/A Date 12-9-14

(7) Additional Reviews

Reviewed By* _____ Date _____

Reviewed By* _____ Date _____

(8) Approved By* Patrick M Stroer Date 12/10/14

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)*

* *Printed Name and Signature*

Procedure Title: Emergency Classification

SUMMARY OF CHANGES: (DESCRIPTION AND REASON)

General Changes

Revision 002 of RP/0/A/1000/001 consists of the following changes:

- Many editorial changes made correcting grammatical corrections and other editorial issues.
- A clarification to the introduction note regarding the procedure is an implementing procedure for the E Plan and as such requires an effectiveness review under 50.54q for any changes and a cross disciplinary review.
- Safety Classification changes for several procedure references noted within the body of the procedure.
- Procedure Reference Change: from NSD-202 to AD-LS-ALL-0006 (Notification / Reportability Evaluation)
- PSW replaces the ASWP as a result of a system modification.

PCR Numbers Incorporated

ONS-2014-05916

Enclosure

Attachment to 50.54q

RP/0/A/1000/001, Emergency Classification, Revision 002

#	Page /Section	Current	Proposed Change	Reason
1.	Page 2 of 6 Note section	Note: This procedure is an implementing Procedure to the Oconee Nuclear Site Emergency Plan and must be forwarded to Emergency Planning within seven (7) working days of approval.	NOTE: This is an implementing Procedure to the Oconee Nuclear Site Emergency Plan and must be: • Reviewed in accordance with 10CFR50.54q by Emergency Preparedness prior to approval. • Cross Disciplinary Reviewed by Operations. • Forwarded to Emergency Preparedness within seven (7) working days of approval.	Enhancement: Added the following note to ensure evaluation for a 10CFR50.54q effectiveness review and the cross disciplinary review.
2.	Page 2 of 6 1.4.4 A	Information relating to the problem(s) on the other unit(s) will be captured on the Emergency Notification Form as shown in RP/0/A/1000/015A, (Offsite Communications From The Control Room), RP/0/A/1000/015B, (Offsite Communications From The Technical Support Center) or SR/0/B/2000/004, (Notification to States and Counties from the Emergency Operations Facility).	Information relating to the problem(s) on the other unit(s) will be captured on the Emergency Notification Form as shown in RP/0/A/1000/015A, (Offsite Communications From The Control Room), RP/0/A/1000/015B, (Offsite Communications From The Technical Support Center) or SR/0/A/2000/004, (Notification to States and Counties from the Emergency Operations Facility).	Safety Classification change to procedure references "B" to "A"
3.	Page 4 of 6 1.5.3	...Refer to NSD 202 for reportability	...Refer to AD-LS-ALL-0006 (Notification/Reportability Evaluation) for reportability	Procedure Reference Change: from NSD-202 to AD-LS-ALL-0006 (Notification / Reportability Evaluation)
4.	Page 4 of 6 1.5.4 A	1. The event may be terminated in the same notification or as a separate termination notification.	1. The event may be terminated in the same notification or as a separate termination notification.	Editorial: margins corrected
5.	Page 5 of 6 2.5	for Control Room - RP/0/B/1000/002, (Control Room Emergency Coordinator Procedure)	for Control Room - RP/0/A/1000/002, (Control Room Emergency Coordinator Procedure)	Safety Classification change to procedure references "B" to "A"
6.	Enclosure 4.1 Potential Loss under Fuel Clad	Average of the 5 highest CETC ≥ 700 F	Average of the 5 highest CETC ≥ 700 F	Editorial: CETC on one line
7.	Enclosure 4.1 Potential Loss Note under Fuel Clad	**NOTE:** RVLS is **NOT** valid if one or more RCPs are running OR if LPI pump(s) are running AND taking suction from the LPI drop line.	**NOTE:** RVLS is **NOT** valid if either of the following exists: • One or more RCPs are running **OR** • If LPI pump(s) are running AND taking suction from the LPI drop line.	Editorial: clarified note for reader and underlined NOT, bold underline OR
8.	Enclosure 4.1 Loss (3 points)	Failure of secondary side of SG results in a direct opening to the environment with SG Tube Leak ≥ 10 gpm in the **SAME** SG	Failure of secondary side of SG results in a direct opening to the environment with SG Tube Leak ≥10 gpm in the **SAME** SG	Editorial: moved symbol ≥ to next line to aid reader

#	Page /Section	Current	Proposed Change	Reason
9.	Enclosure 4.1 Loss (3 points)	SG Tube Leak ≥ 10 gpm exists in one SG. **AND** the other SG has secondary side failure that results in a direct opening to the environment AND is being fed from the affected unit.	SG Tube Leak ≥ 10 gpm exists in one SG. **AND** the other SG has secondary side failure that results in a direct opening to the environment **AND** is being fed from the affected unit.	Editorial: clarified note for reader & underlined AND
10.	Enclosure 4.2 ALERT second AND	**AND** *Significant plant transient in progress*	**AND** *Significant plant transient* in progress	Editorial: unbold "in progress"
11.	Enclosure 4.3 UE 1.B	*Valid* indication on radiation monitor RIA-45 of > 9.35E+05 cpm or RP sample reading of > 6.62E-2uCi/ml Xe 133 eq for > 60 minutes (See Note 1)	*Valid* indication on radiation monitor RIA-45 of > 9.35E+05 cpm or RP sample reading of >6.62E-2uCi/ml Xe 133 eq for > 60 minutes (See Note 1)	Editorial: moved symbol > to next line to aid reader
12.	Enclosure 4.3 Alert 1.A	*Valid* indication of RIA-46 of > 2.09 E+ 04 cpm or RP sample reading of > 6.62 uCi/ml Xe 133 eq for > 15 minutes. (See Note 1)	*Valid* indication of RIA-46 of > 2.09 E+ 04 cpm or RP sample reading of > 6.62 uCi/ml Xe 133 eq for > 15 minutes. (See Note 1)	Editorial: moved symbol "Xe" to next line to aid reader
13.	Enclosure 4.3 SAE 1.A	*Valid* reading on RIA 46 of > 2.09E+05 cpm or RIA 56 reading of > 17.5 R/hr or RP sample reading of 6.62E+01 uCi/ml Xe 133 eq for > 15 minutes (See Note 2)	*Valid* reading on RIA 46 of > 2.09E+05 cpm or RIA 56 reading of > 17.5 R/hr or RP sample reading of 6.62E+01 uCi/ml Xe 133 eq for >15 minutes (See Note 2)	Editorial: moved symbol > to next line to aid reader
14.	Enclosure 4.3 SAE 1.C	Dose calculations result in a dose projection at the *site boundary* of: ε 100 mRem TEDE or 500 mRem CDE adult thyroid	Dose calculations result in a dose projection at the *site boundary* of: ε 100 mRem TEDE **OR** 500 mRem CDE adult thyroid	Editorial: bold underline OR for emphasis
15.	Enclosure 4.3 SAE 1.D	D. Field survey results indicate *site boundary* dose rates exceeding ε100 mRad/hr expected to continue for more than one hour **OR** Analyses of field survey samples indicate adult thyroid dose commitment of ε 500 mRem CDE (3.84 E-7 ⌈Ci/ml) for one hour of inhalation	D. Field survey results indicate *site boundary* dose rates exceeding ε100 mRad/hr expected to continue for more than one hour **OR** Analyses of field survey samples indicate adult thyroid dose commitment of ε 500 mRem CDE (3.84 E-7 ⌈Ci/ml) for one hour of inhalation	Editorial: underline OR and correct indent
16.	Enclosure 4.3 GE 1.A	*Valid* reading on RIA 46 of > 2.09E+06 cpm or RIA 56 reading of > 175 R/hr or RP sample reading of 6.62E+02uCi/ml Xe 133 eq for > 15 minutes (See Note 3)	*Valid* reading on RIA 46 of > 2.09E+06 cpm or RIA 56 reading of > 175 R/hr or RP sample reading of 6.62E+02uCi/ml Xe 133 eq for > 15 minutes (See Note 3)	Editorial: moved symbol > 15 minutes to next line to aid reader
17.	Enclosure 4.4 SAE 2.C	EOP directs feeding SG from SSF ASWP or station ASWP	EOP directs feeding SG from SSF ASWP or station PSW Pump	ASWP replaces PSW as a result of a system modification
18.	Enclosure 4.4 GE 1.A	**AND** Manual trip from the Control Room was **NOT** successful in reducing reactor power to < 5% and decreasing **AND** Average of the 5 highest CETCs ε1200° F on ICCM	**AND** Manual trip from the Control Room was **NOT** successful in reducing reactor power to < 5% and decreasing **AND** Average of the 5 highest CETCs ε1200° F on ICCM	Editorial: corrected formatting

#	Page /Section	Current	Proposed Change	Reason
19.	Enclosure 4.5 GE 1.A	Restoration of power to at least one MFB within 4 hours is **NOT** likely **OR** Indications of continuing degradation of core cooling based on Fission Product Barrier monitoring	Restoration of power to at least one MFB within 4 hours is **NOT** likely **OR** Indications of continuing degradation of core cooling based on Fission Product Barrier monitoring	Editorial: corrected formatting and underline OR
20.	Enclosure 4.6 Alert prior to NOTE Page 1 of 2		OPERATING MODE: All	Editorial: added for procedure consistently
21.	Enclosure 4.6 Alert prior to NOTE Page 2 of 2		OPERATING MODE: All	Editorial: added for procedure consistently
22.	Enclosure 4.7 Alert 2.B Page 2 of 3	Report/detection of flammable gases in concentrations that will affect the safe operation of the plant: Reactor Building Auxiliary Building Turbine Building Control Room	Report/detection of flammable gases in concentrations that will affect the safe operation of the plant: Reactor Building Auxiliary Building Turbine Building Control Room	Editorial: corrected formatting (Bullets)
23.	Enclosure 4.7 Alert 4.A Page 2 of 3	**AND ONE OF THE FOLLOWING:** **AND** Plant control **IS** established from the Aux shutdown Panel or the SSF **OR** Plant control **IS BEING** established from the Aux Shutdown Panel or SSF	**AND ONE OF THE FOLLOWING:** Plant control **IS** established from the Aux shutdown Panel or the SSF **OR** Plant control **IS BEING** established from the Aux Shutdown Panel or SSF	Editorial: removed AND
24.	Enclosure 4.7 UE under 4.B & 5.A Page 3 of 3	5. OTHER CONDITIONS EXIST WHICH WARRANT DECLARATION OF AN *UNUSUAL EVENT* (BD 88) OPERATING MODE: All A. Emergency Coordinator determines potential degradation of level of safety has occurred	**5. OTHER CONDITIONS EXIST WHICH WARRANT DECLARATION OF AN *UNUSUAL EVENT* (BD 88)** **OPERATING MODE:** All A. Emergency Coordinator determines potential degradation of level of safety has occurred	Editorial: removed lines between 4 and 5 & unbold All under 5, correct spelling of Warrant (missing the a)
25.	Enclosure 4.7 UE 3 Page 3 of 3	**3. OTHER CONDITIONS WRRANT DECLARATION OF SITE AREA EMERGENCY (BD 98)**	**3. OTHER CONDITIONS WRRANT DECLARATION OF SITE AREA EMERGENCY (BD 98)**	Editorial: consistent line under title
26.	Enclosure 4.7 GE 1.A Page 3 of 3	**OR** Potential for *uncontrolled* radionuclide releases that would result in a dose projection at the site boundary greater than 1000 mRem TEDE or 5000 mRem CDE Adult Thyroid	**OR** Potential for *uncontrolled* radionuclide releases that would result in a dose projection at the site boundary greater than 1000 mRem TEDE or 5000 mRem CDE Adult Thyroid	Editorial: corrected indentations
27.	Enclosure 4.13	1-13	14. PIP O-14-10064 and PIP O-14-11470 15. PIP O-13-6662	Editorial: Added PIPs from DocuTrack captured in Rev 002

[Type text]

APPENDIX C. APPLICABILITY DETERMINATION (Rev. 10)

PART I – ACTIVITY DESCRIPTION

DUKE ENERGY CAROLINAS, LLC SITE			UNIT(S)		
☒ Oconee	☐ McGuire	☐ Catawba	☒ Unit 1	☒ Unit 2	☒ Unit 3

ACTIVITY TITLE/DOCUMENT/REVISION: **RP/0/A/1000/001, Emergency Classification, Revision 002**
ONS-2014-05916

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?	☒ NO	☐ YES	If YES, process as a license amendment per NSD 227.
2.	Quality Assurance Topical?	☒ NO	☐ YES	If YES, seek assistance from Independent Nuclear Oversight.
3.	Security Plans? (See Appendix H)	☒ NO	☐ YES	If YES, process per the Nuclear Security Manual.
4.	Emergency Plan?	☐ NO	☒ YES	If YES, process per the Emergency Planning Functional Area Manual.
5.	Inservice Testing Program Plan?	☒ NO	☐ YES	If YES, process per site IST Program for ASME code compliance and related facility changes.
6.	Inservice Inspection Program Plan?	☒ NO	☐ 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?	☒ NO	☐ YES	If YES, evaluate activity in accordance with NSD 320.
	7a -Utilize Appendix E to address Fire Protection Program Plan Impact.		☒	Check to confirm use of Appendix E Screening Questions.
8.	Regulatory Commitments?	☒ NO	☐ YES	If YES, process per NSD 214.
9.	Code of Federal Regulations?	☒ NO	☐ YES	If YES, contact the Regulatory Affairs group.
10.	Programs and manuals listed in the Administrative Section of the TS?	☒ NO	☐ YES	If YES, contact the Regulatory Affairs group.

[Type text]

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
17.	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. IF YES, process per NSD 220.	☒ NO	☐ YES

PART V - SIGNOFF

(Print Name) Susan K. Clark (Sign) [signature] DATE 12-9-14

Applicability Determination Preparer

Form 703-2. Procedure Change Process Record
(R08-10)

Duke Energy

PROCEDURE CHANGE PROCESS RECORD

(1) ID No. RP/0/A/1000/001

Revision No. 002 Change No.
Permanent/Restricted to

(2) Station: OCONEE NUCLEAR STATION

(3) Procedure Title: Emergency Classification

(4) Section(s) of Procedure Affected: Pages 2-6, Enclosures 4.1 - 4.13

(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.)*
Revision 002 of RP/0/A/1000/001 consists of the following changes:

- Many editorial changes made correcting grammatical corrections and other editorial issues.
- A clarification to the introduction note regarding the procedure is an implementing procedure for the E Plan and as such requires an effectiveness review under 50.54q for any changes and a cross disciplinary review.
- Safety Classification changes for several procedure references noted within the body of the procedure.
- Procedure Reference Change: from NSD-202 to AD-LS-ALL-0006 (Notification / Reportability Evaluation)
- PSW replaces the ASWP as a result of a system modification.

(7) Reason for Change:
See attached change matrix

(8) Prepared By* Natalie Harness (Signature) [signature] Date 11/25/2014

(9) Reviewed By* [signature] (QR)(KI) Date 12-9-14

✓ Cross-Disciplinary Review By* DAVID P GARLAND [signature] (QR)(KI) NA ~~N/A~~ Date 12-9-14

Reactivity Mgmt. Review By* _____ (QR) NA ~~N/A~~ Date 12-9-14

Mgmt. Involvement Review By* _____ (Ops. Supt.) NA ~~N/A~~ Date 12-9-14

(10) Additional Reviews

Reviewed By* _____ Date _____

Reviewed By* _____ Date _____

(11) Approved By* Pamela M Sasser [signature] Date 12/10/14

* *Printed Name and Signature*

§50.54(q) Screening Evaluation Form

Activity Description and References:
RP/0/A/1000/001, Emergency Classification, Revision 002

BLOCK 1

Revision 002 of RP/0/A/1000/001 consists of the following changes:

- Many editorial changes made correcting grammatical corrections and other editorial issues.
- A clarification to the introduction note regarding the procedure is an implementing procedure for the E Plan and as such requires an effectiveness review under 50.54q for any changes and a cross disciplinary review.
- Safety Classification changes for several procedure references noted within the body of the procedure.
- Procedure Reference Change: from NSD-202 to AD-LS-ALL-0006 (Notification / Reportability Evaluation)
- PSW replaces the ASWP as a result of a system modification.

Activity Scope: BLOCK 2

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

Change Type: BLOCK 3

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

Change Type: BLOCK 4

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

Planning Standard Impact Determination: BLOCK 5

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

***Risk Significant Planning Standards**

☐ The proposed activity does not impact a Planning Standard

Commitment Impact Determination: BLOCK 6

☐ The activity does involve a site specific EP commitment
☒ The activity does not involve a site specific EP commitment

Results: BLOCK 7

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

Preparer Name:	Preparer Signature	Date:
Natalie Harness	Natalie Harness	11/24/14
Reviewer Name:	Reviewer Signature	Date:
Don Crowl	[illegible]	12-9-14

§50.54(q) Effectiveness Evaluation Form

Activity Description and References: BLOCK 1

RP/0/A/1000/001, Emergency Classification, Revision 002

Revision 002 of RP/0/A/1000/001 consists of the following changes:

- Many editorial changes made correcting grammatical corrections and other editorial issues.
- A clarification to the introduction note regarding the procedure is an implementing procedure for the E Plan and as such requires an effectiveness review under 50.54q for any changes and a cross disciplinary review.
- Safety Classification changes for several procedure references noted within the body of the procedure.
- Procedure Reference Change: from NSD-202 to AD-LS-ALL-0006 (Notification / Reportability Evaluation)
- ASWP replaces PSW as a result of a system modification.

Activity Type: BLOCK 2

☒ The activity is a *change* to the *emergency plan*

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

Impact and Licensing Basis Determination: BLOCK 3

Licensing Basis:

10 CFR 50.47(b)(4) states: A standard emergency classification and action level scheme, the bases of which include facility system and effluent parameters, is in use by the nuclear facility licensee, and State and local response plans call for reliance on information provided by facility licensees for determinations of minimum initial offsite response measures.

NUREG0654 II.D, Emergency Classification System, A standard emergency classification and action level scheme, the bases of which include facility system and effluent parameters, is in use by the nuclear facility licensee, and State and local response plans call for reliance on information provided by facility licensees for determinations of minimum initial offsite response measures.

ONS E Plan Section D states: RegGuide 1.101, Rev. 3, August, 1992, approved the guidance provided by NUMARC/NESP-007, Revision 2, as an Alternative Methodology for the Development of Emergency Action Levels. Oconee Nuclear Site used the NUMARC guidance for the development of initiating conditions and emergency action levels. The emergency action levels provided in this section have been modified to implement the guidance provided in NRC Bulletin 2005-02, NEI guidance as endorsed in Regulatory Issue Summary 2006-12 and to support the implementation of NEI 03-12.

RG 1.219 lists the emergency planning function associated with 10 CFR 50.47(b)(4):
A standard scheme of emergency classification and action levels is in use.

10CFR50.47.b(16) Responsibilities for plan development and review and for distribution of emergency plans are established, and planners are properly trained.

NUREG 0654 P.7 states: Each plan shall contain as an appendix listing, by title, procedures required to implement the plan. The listing shall include the section(s)of the plan to be implemented by each procedure.

ONS E Plan Section P.7 states: Implementing Procedures. Written procedures will be established, implemented and maintained covering the activities associated with emergency plan implementation. Each procedure and changes thereto, shall be approved by the responsible manager prior to implementation. Implementing procedures are indexed and cross referenced to the section applicable in NUREG 0654. (Figure P-1)

RG 1. 219 lists the (2) emergency planning functions associated with 10 CFR 50.47(b)(16) with 1 being impacted
(1) Responsibility for emergency plan development and review is established

Compliance Evaluation and Conclusion: BLOCK 4

Evaluation:
Does impact **ONS EPlan Section D**: The change from PSW to ASWP is a result of a system modification. Appropriate changes were made to ensure the EAL Technical Basis (Section D) remains correct and current with plant modifications. Therefore continued compliance with 10CFR50.47(b)4, 10CFR50 App. E.IV, and 10CFR50 Appendix E.IV.B.1 is assured.

Conclusion:

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

Reduction in Effectiveness (RIE) Evaluation and Conclusion: BLOCK 5

Change 1: Enhancement - Added the following note to ensure evaluation for a 10CFR50.54q effectiveness review.
Change 2 & 5: Safety Classification change reference from B to A
Change 3: Procedure Reference Change-NSDF-202 to AD-LS-ALL-0006 (Notification/Reportability Evaluation)
Change 17: ASWP replaces PSW as a result of a system modification
Change 4, 6-16, 18-27: Editorial clarifications for the reader

Therefore as can be seen by the above evaluation the proposed changes do not reduce the effectiveness of the EPlan.

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

Effectiveness Evaluation Results BLOCK 6

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

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

Preparer Name: Natalie Harness	Preparer Signature Natalie Harness	Date: 11/24/2014
Reviewer Name: Don Crowl	Reviewer Signature	Date: 12-8-14
Approver Name: Pat Street	Approver Signature	Date: 12/10/14

Revision 12

EAL Change Review Form

Change Description and References: ONS E Plan Section D / RP/0/A/1000/001, Emergency Classification

BLOCK 1

Revision 14-003 of the ONS E Plan and Revision 002 of RP/0/A/1000/001 consists of the following changes:

- PSW pump replaces station ASW Pump as a result of a plant modification.

Change Type:

BLOCK 2

☒ The change is considered a *difference* from the approved wording.
☐ The change is considered a *deviation* from the approved wording.

Change Verification:

BLOCK 3

Item	Yes	No	N/A	Resolution/Comments
Initiating Condition				
IC identification number is correct	☒	☐	☐	Click here to enter text.
Wording is consistent with the NRC approved IC	☒	☐	☐	Click here to enter text.
EAL / FPB				
EAL/FPB identification number is correct	☒	☐	☐	Click here to enter text.
Wording is consistent with the NRC approved EAL / FPB	☒	☐	☐	Click here to enter text.
Threshold values or conditions remain specific to ensure generic criteria are not substituted reducing clarity and accuracy of the EAL.	☒	☐	☐	Click here to enter text.
Sequencing/nesting logic format is correct	☒	☐	☐	Click here to enter text.
Source document inputs used for calculations and in thresholds are correct	☒	☐	☐	Click here to enter text.
Site specific content wording/tables/values are correct and specific: • Operations procedures are consistent with the change • Instrument/display number and noun name are provided • Alarm setpoints are equal to or below EAL/FPB values • Radiation monitor values account for background • Procedure references are correct	☒	☐	☐	Click here to enter text.
The EAL/FPB Matrix is legible and intuitively organized	☒	☐	☒	Click here to enter text.
Mode Applicability				
Operational mode alignment is consistent with the EAL licensing basis	☒	☐	☐	Click here to enter text.
Technical Bases				
Site specific bases is consistent with the EAL threshold	☒	☐	☐	Click here to enter text.
Bases for calculations and threshold values are consistent with the technical bases approved by the NRC	☒	☐	☐	Click here to enter text.
Source document inputs used for calculations and in thresholds are correct	☒	☐	☐	Click here to enter text.
Site specific bases remains accurate and consistent with the EAL technical bases approved by the NRC	☒	☐	☐	Click here to enter text.
Site specific bases has appropriate level of detail and is unambiguous	☒	☐	☐	Click here to enter text.
The change does not cause a change to the logic of the EAL scheme (i.e. gaps in classification thresholds)	☒	☐	☐	Click here to enter text.
Conflicts with the EAL/FPB wording have not been introduced	☒	☐	☐	Click here to enter text.

References				
Source document references are correct	☒	☐	☐	Click here to enter text.
Source document references are current	☒	☐	☐	Click here to enter text.
Definitions				
Wording is consistent with the license basis definitions approved by the NRC for the EALs and EAL technical bases	☒	☐	☐	Click here to enter text.
Other Manual Content				
Wording is consistent with the license basis definitions approved by the NRC for the EALs and EAL technical bases	☒	☐	☐	Click here to enter text.

Change Validation: BLOCK 4

Method

☐ In-Plant Walkdown ☐ Simulator ☒ Other (Specify) Mod package and EOP procedure changes

☐ Training ☐ Tabletop ☐ N/A

Item	Yes	No	N/A	Resolution/Comments
EAL / FPB				
Information and/or values are available in all facilities where classifications are required to be made	☒	☐	☐	Click here to enter text.
Instrumentation and computer points are compatible: • Instrument/display designation matches • Instrument/display units are correct • Proper significant digits are indicated and within the accuracy capabilities of the instrument/display • The instrument/display range is on scale for the threshold value • Instrument/display provides separation for escalating values	☐	☐	☒	Click here to enter text.
Conditions are easily recognizable and able to support declaration within 15 minutes.	☒	☐	☐	Click here to enter text.
Information and/or values are easily obtained and able to support declaration within 15 minutes	☒	☐	☐	Click here to enter text.
The change does not introduce a time delay to classification	☒	☐	☐	Click here to enter text.

Change Justification: BLOCK 5

The change is a result of a modification to the station. The change from the station ASW Pump to the PSW pump enabled the station to not require a blow-down of the SG's in order to commence feeding to achieve shutdown cooling, as the PSW pump is a high discharge head pump. The installation and use of the PSW pump provides a better margin of safety for the plant. The use of the PSW pump remains consistent with the technical basis of the EAL (NUMARC - NESP-007, IC - SS4 - Complete Loss of Heat Removal Capability EAL 1 Loss of core cooling and heat sink (PWR). The EOP that previously referenced use of the station ASW pump has been modified to reflect use of the PSW pump. The basis provides, "This EAL addresses complete loss of functions, core cooling and heat sink, required for hot shutdown with the reactor at pressure and temperature. Under these conditions, there is an actual major failure of a system intended for protection of the public. Thus, declaration of a Site Area Emergency is warranted. Escalation to General Emergency would be via Abnormal Rad Levels/Radiological Effluent, Emergency Coordinator Judgment, or Fission Product Barrier Degradation ICs. Core exit thermocouple readings are considered to be the average of the five (5) highest thermocouple readings shown on the Inadequate Core Cooling Monitor. The SSF can provide the following: (1) makeup to the Reactor Coolant pump seals, (2) low pressure service water to the steam generators (additional method for heat sink), (3) capability to keep the unit in hot shutdown for 72 hours following an Appendix R fire. This change is then in keeping true to the basis as currently written.

EAL Change Review Results: BLOCK 6

☒ The EAL change can be implemented without prior NRC approval.
☐ The EAL change cannot be implemented without prior NRC approval.

Preparer Name: John Kaminski	Preparer Signature	Date: 12/9/14
Reviewer Name: Don Crowl	Reviewer Signature	Date: 12-9-14
Approver Name: Patrick M Stulgis	Approver Signature	Date: 12/10/14

Revision 12

Duke Energy Oconee Nuclear Station **Offsite Communications From The Control Room** **Reference Use**	Procedure No. **RP/0/A/1000/015 A** Revision No. **003** Electronic Reference No. **OP009A66**

PERFORMANCE

PDF Format

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

Compared with Control Copy* _____ Date _____

Compared with Control Copy* _____ Date _____

Compared with Control Copy* _____ Date _____

Date(s) Performed	Work Order/Task Number (WO#)

COMPLETION

- ☐ Yes ☐ NA Checklists 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

Procedure Completion Approved* Date
**Printed Name and Signature*

Remarks (*attach additional pages, if necessary*)

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

Printed Date: *12/08/2014*

Enclosure No.: *FULL*

Revision No.: *003*

Procedure No.: *RP/0/A/1000/015 A*

Offsite Communications From The Control Room

NOTE:
- This procedure is an implementing Procedure to the Oconee Nuclear Site Emergency Plan and must be reviewed in accordance with 10CFR50.54(q) by Emergency Prepardness and forwarded to Emergency Preparedness within seven (7) working days of approval.
- For an outside line dial "9" for long distance dial "1".

1. Symptoms

☐ 1.1 Events are in progress or have occurred which require activation of the Oconee Nuclear Site Emergency Plan and notification of offsite agencies.

NOTE:
- Actions within the body of this procedure are **NOT** required to be performed in sequence.
- Emergency Notification Forms (ENF) for an Initial or Upgrade are typically completed by the OSM. When the OSM is not available, or when directed by the OSM, the Offsite Communicator will complete the Initial/Upgrade ENF per this procedure. Otherwise, the Offsite Communicator will complete applicable Immediate and Subsequent steps for Follow-Up and Termination notifications.

2. Immediate Actions

☐ 2.1 Obtain the portable phone (864-882-7076) located on column in Unit 1&2 or Unit 3 CR and report to the OSM/EC.

☐ 2.2 Obtain the following items from the Emergency Procedures Cart (located in TSC/OSC):

- Emergency Action Level Guideline Manual
- Yellow folder containing:
  - › Emergency Telephone Directory
  - › Authentication Code List
  - › Emergency Notification Forms

NOTE: **INITIAL/UPGRADE** notifications MUST be communicated to Offsite Agencies within **fifteen (15) minutes** of the official emergency declaration time on Line 10 of the Emergency Notification Form.

Classification upgrades occurring prior to or while transmitting the initial message:

- Will require the notification for the lesser emergency classification within 15 minutes.
- Will require you to inform the agencies that an upgrade in classification will be coming.
- Will require you to begin a new initial message for the higher classification and complete within 15 minutes of its declaration.

PROTECTIVE ACTION RECOMMENDATION (PAR) changes must be communicated to Offsite Agencies within **fifteen (15) minutes** from the time they are determined by the OSM Emergency Coordinator/Dose Assessment Liaison.

FOLLOW-UP FOR AN UNUSUAL EVENT - A Follow-Up notification is **NOT** required for an Unusual Event unless requested.

FOLLOW-UP notifications are required at least every **sixty (60) minutes** from the notification time on Line 2 for an **Alert, Site Area Emergency**, or **General Emergency** Classification. Significant changes in plant conditions (evacuation/relocation of site personnel; fires onsite; MERT activation and/or injured personnel transported offsite; chemical spills; explosions; Condition "A" or "B" for Keowee Hydro Project Dams/Dikes or any event that would cause or require offsite agency response) should be communicated as they occur. This frequency **may be** changed at the request of offsite agencies.

If a **FOLLOW-UP** is due and an upgrade to a higher classification is declared, there is no need to complete the follow-up ENF. In this case, the offsite agencies must be notified that the pending follow-up is being superseded by an upgrade to a higher classification and information will be provided.

FOLLOW-UP Notifications - Do not delay sending a Follow-Up notification if all information is not available. Use the same information from the previous message sheet.

Do **NOT** use acronyms. Do not add or change information on the form after it has been approved by the Emergency Coordinator.

☐ 2.3 If directed by the OSM review the OSM/EC Log to determine plant conditions. Verify correct enclosure for applicable emergency event is selected.

☐ 2.3.1 If a **GENERAL EMERGENCY** exists, complete Enclosure 4.1 (Guidelines for Manually Completing Initial Message for a General Emergency Event).

☐ 2.3.2 If a **SITE AREA EMERGENCY** exists, complete Enclosure 4.2 (Guidelines for Manually Completing an Initial Message for a Site Area Emergency Event).

☐ 2.3.3 If an **ALERT** exists, complete Enclosure 4.3 (Guidelines for Manually Completing an Initial Message for an Alert Event).

☐ 2.3.4 If an **UNUSUAL EVENT** exists, complete Enclosure 4.4 (Guidelines for Manually Completing an Initial Message for an Unusual Event).

3. Subsequent Actions

☐ 3.1 **IAAT** The Emergency Event Classification is being **UPGRADED**.

THEN Complete an Emergency Notification Form using the correct Enclosure.

☐ 3.1.1 If a **GENERAL EMERGENCY** exists complete Enclosure 4.1 (Guidelines for Manually Completing an Initial Message for a General Emergency Event).

☐ 3.1.2 If a **SITE AREA EMERGENCY** exists, complete Enclosure 4.2 (Guidelines for Manually Completing an Initial Message for a Site Area Emergency Event).

☐ 3.1.3 If an **ALERT** exists, complete Enclosure 4.3 (Guidelines for Manually Completing an Initial Message for an Alert Event).

NOTE: If changes are made to PAR's, use Enclosure 4.5 (Guidelines for Manually Completing a Follow-Up Message to complete Message Sheet).

☐ 3.2 **IAAT** A **FOLLOW-UP** notification is required for an emergency event,

THEN **GO TO** Enclosure 4.5 (Guidelines for Manually Completing a Follow-Up Message).

☐ 3.3 **IAAT** A **TERMINATION** notification is required for an emergency event,

THEN **GO TO** Enclosure 4.6 (Guidelines for Manually Completing a Termination Message)

☐ 3.4 **IAAT** Turnover with the TSC **has** been completed or the event has been terminated.

THEN Stop here.

4. Enclosures

4.1 Guidelines for Manually Completing an Initial Message for a General Emergency Event

4.2 Guidelines for Manually Completing an Initial Message for a Site Area Emergency Event

4.3 Guidelines for Manually Completing an Initial Message for an Alert Event

4.4 Guidelines for Manually Completing an Initial Message for an Unusual Event

4.5 Guidelines for Manually Completing a Follow-Up Message

4.6 Guidelines for Manually Completing a Termination Message

4.7 Guidelines for Manually Transmitting A Message Sheet

4.8 COPY/FAX Operation

4.9 Alternate Method and Sequence to Contact Agencies

4.10 Turnover Checklist

4.11 Response to Offsite Agency Questions

4.12 Acronym Listing

4.13 References

Enclosure 4.1

Guidelines for MANUALLY Completing an INITIAL Message for a

GENERAL EMERGENCY EVENT

NOTE:
- The initial notification is required to be made within 15 minutes from the official declaration time on Line 10.
- Pre-printed Emergency Notification Forms containing specific EAL# and EAL Description may be used in lieu of Enclosure 4.1.A.

☐ Obtain one of the following, as appropriate, and complete the forms as follows:

- Enclosure 4.1.A (Nuclear Power Plant Emergency Notification Form - GENERAL EMERGENCY)
- Enclosure 4.1.B (Nuclear Power Plant Emergency Notification Form - Hostile Action Based Event - GENERAL EMERGENCY)

☐ **Line 1** Mark "DRILL" or "ACTUAL EVENT".

Enter Message Number (very first message is #1 and then sequential numbering required until event terminated).

☐ **Line 2** Mark/verify "initial" notification. Time, date, and authentication to be completed after line 17.

☐ **Line 3** Verify Site is marked as Oconee and confirmation phone number is 864-882-7076.

☐ **Line 4** Enter/Verify EAL# provided by OSM/EC (use Emergency Action Level Guideline Manual).

Copy/Verify exact EAL Description from the EAL manual.

☐ **Line 5** Verify/mark applicable sectors.

IF KI has been recommended, mark Box D

IF a Keowee Hydro Dam/Dike Condition "A" exists:
- Mark Box B and write "Move residents living downstream of the Keowee Hydro dams to higher ground.
- AND mark Box E and write "Prohibit traffic flow across bridges identified on your inundation maps until the danger has passed."

Guidelines for MANUALLY Completing an INITIAL Message for a

GENERAL EMERGENCY EVENT

NOTE: An airborne release is considered to be in progress if ANY of the following occurs. Review the Sorento RIA Monitor Screen to display this information.	
1, 2, 3 RIA 40	Steam Generator Tube Leak
1, 2, 3 RIA 45 or 46	Shows increase in activity
1, 2, 3 RIA 47, 48 or 49	Reading > 1 cpm **AND** greater than 1 pound pressure in containment building or actual containment breach is determined
1, 3 RIA 57 or 1, 2, 3 RIA 58	Reading > 1.0 Rad/hr **AND** greater than 1 pound pressure in containment building or actual containment breach is determined
2 RIA 57	Reading > 1.6 Rad/hr **AND** greater than 1 pound pressure in containment building or actual containment breach is determined

☐ **Line 6** Mark B (Is Occurring) if any of the conditions stated in the note above apply. If they do not apply mark None. Complete Line 6 as directed by OSM/EC.

☐ **Line 7** **IF** Box A was marked on Line 6, then mark Box A on this line and go to Line 8.

IF Box B was marked on Line 6, then mark Box D (under Evaluation) UNLESS RP has told you to mark Box B or C and go to Line 8.

IF Box C was marked on Line 6, then mark Box D (Under Evaluation) UNLESS RP has told you to mark Box B or C and go to Line 8.

☐ **Line 8** Mark Box A, B, or C as directed by the OSM/EC.

☐ **Line 9** Enter the meteorological data if available from RP Shift. If unavailable, leave this line blank. Request RP Shift Dose Assessor perform calculation for Line 9 for Follow-upnotification. Follow-up due in 60 minutes.

☐ **Line 10** Enter Time in military units and Date the OSM/EC officially declares a General Emergency Event.

Guidelines for MANUALLY Completing an INITIAL Message for a

GENERAL EMERGENCY EVENT

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

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

☐ **Line 11** Mark or select ALL if event affects the emergency classification on more than one unit.

Mark or select one (1) unit if event affects one unit or one (1) unit has a higher emergency classification.

NOTE: Unaffected unit status is not required for initial notification. Unit status is required for all three units for follow-up notifications.

☐ **Line 12** Mark affected unit(s) (reference Line 11) and enter percent power for each unit affected.

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

☐ **Line 13** Add any remarks as requested by the OSM/EC. If there are no remarks write "None".

NOTE: Lines 14, 15, & 16 are **NOT** required to be completed for an initial notification.

DO **NOT** add or change information on the form after it has been approved by the Emergency Coordinator.

☐ **Line 17** Obtain the OSM/EC signature/time/date of approval.

NOTE: The "Received By, Time and Date" on Line 17 is completed by the Offsite Agency.

☐ **Line 17** Notified By: Print your name.

☐ To manually transmit this message, go to Enclosure 4.7 (Guidelines for Manually Transmitting A Message).

Nuclear Power Plant Emergency Notification Form

RP/0/A/1000/015 A

GENERAL EMERGENCY

Enclosure 4.1.A

1. [A] DRILL [B] ACTUAL EVENT MESSAGE # _____
2. [A] INITIAL [B] FOLLOW-UP NOTIFICATION: TIME_____ DATE____/____/____ AUTHENTICATION # ____
3. SITE: **Oconee Nuclear Site** Confirmation Phone # (864) 882-7076

4. **EMERGENCY CLASSIFICATION:** [A] UNUSUAL EVENT EMERGENCY [B] ALERT [C] SITE AREA EMERGENCY [D] GENERAL

BASED ON EAL #_____ EAL DESCRIPTION: _____

5. **PROTECTIVE ACTION RECOMMENDATIONS:** [A] NONE

[B] EVACUATE PICKENS CO.: A0, A1, B1, C1 OCONEE CO.: A0, D1, E1, F1

[C] SHELTER PICKENS CO.: A2, B2, C2 OCONEE CO.: D2, E2, F2

[D] CONSIDER THE USE OF KI (POTASSIUM IODIDE) IN ACCORDANCE WITH STATE PLANS AND POLICY.

[E] OTHER_____

6. **EMERGENCY RELEASE:** [A] None [B] Is Occurring [C] Has Occurred

7. RELEASE SIGNIFICANCE: [A] Not applicable [B] Within normal operating limits [C] Above normal operating limits [D] Under evaluation
8. EVENT PROGNOSIS: [A] Improving [B] Stable [C] Degrading
9. METEOROLOGICAL DATA: Wind Direction* from _____ degrees Wind Speed* _____mph

(*Not Required for Initial Notifications) Precipitation* _____ Stability Class* [A] [B] [C] [D] [E] [F] [G]

10. [A] DECLARATION [B] TERMINATION Time _____ Date ____/____/____
11. AFFECTED UNIT(S): [1] [2] [3] [All]
12. UNIT STATUS:

(Unaffected Unit(s) Status Not Required for Initial Notifications)

[A] U1 ____% Power Shutdown at Time _____ Date ___/____/___

[B] U2 ____% Power Shutdown at Time _____ Date ___/____/___

[C] U3 ____% Power Shutdown at Time _____ Date ___/____/___

13. REMARKS: _____

FOLLOW-UP INFORMATION (Lines 14 through 16 Not Required for Initial Notifications)

EMERGENCY RELEASE DATA. NOT REQUIRED IF LINE 6 A IS SELECTED.

14. RELEASE CHARACTERIZATION: TYPE: [A] Elevated [B] Mixed [C] Ground UNITS: [A] Ci [B] Ci/sec [C] µCi/sec

MAGNITUDE: Noble Gases:_____ Iodines:_____ Particulates:_____ Other: _____

FORM: [A] Airborne Start Time _____ Date ___/____/___Stop Time _____ Date ___/____/___

[B] Liquid Start Time _____ Date ___/____/___Stop Time _____ Date ___/____/___

15. PROJECTION PARAMETERS: Projection period: _____Hours Estimated Release Duration _____Hours

Projection performed: Time _____ Date ___/____/___

16. PROJECTED DOSE:

DISTANCE	TEDE (mrem)	Adult Thyroid CDE (mrem)
Site boundary	_____	_____
2 Miles	_____	_____
5 Miles	_____	_____
10 Miles	_____	_____

17. APPROVED BY: _____ Title **Emergency Coordinator** Time _____ Date___/____/___

NOTIFIED BY:_____ RECEIVED BY: _____ Time _____ Date ___/____/___

Nuclear Power Plant Emergency Notification Form

RP/0/A/1000/015 A

Hostile Action Based Event - GENERAL EMERGENCY

Enclosure 4.1.B

1. [A] DRILL [B] ACTUAL EVENT MESSAGE # _____
2. [A] INITIAL [B] FOLLOW-UP NOTIFICATION: TIME_____ DATE____/____/____ AUTHENTICATION # ____
3. SITE: **Oconee Nuclear Site** Confirmation Phone # (864) 882-7076

4. **EMERGENCY CLASSIFICATION:** [A] UNUSUAL EVENT EMERGENCY [B] ALERT [C] SITE AREA EMERGENCY [D] GENERAL
BASED ON EAL #_____ EAL DESCRIPTION: _____

5. **PROTECTIVE ACTION RECOMMENDATIONS:** [A] NONE
[B] EVACUATE PICKENS CO.: OCONEE CO.:
[C] SHELTER PICKENS CO.: A0, A1, B1, C1 OCONEE CO.: A0, D1, E1, F1
[D] CONSIDER THE USE OF KI (POTASSIUM IODIDE) IN ACCORDANCE WITH STATE PLANS AND POLICY.
[E] OTHER_____

6. **EMERGENCY RELEASE:** [A] None [B] Is Occurring [C] Has Occurred

7. RELEASE SIGNIFICANCE: [A] Not applicable [B] Within normal operating limits [C] Above normal operating limits [D] Under evaluation
8. EVENT PROGNOSIS: [A] Improving [B] Stable [C] Degrading
9. METEOROLOGICAL DATA: Wind Direction* from _____ degrees Wind Speed* _____mph
(*Not Required for Initial Notifications) Precipitation* _____ Stability Class* [A] [B] [C] [D] [E] [F] [G]
10. [A] DECLARATION [B] TERMINATION Time _____ Date ____/____/____
11. AFFECTED UNIT(S): [1] [2] [3] [All]
12. UNIT STATUS: (Unaffected Unit(s) Status Not Required for Initial Notifications)
[A] U1 ____% Power Shutdown at Time _____ Date ___/___/___
[B] U2 ____% Power Shutdown at Time _____ Date ___/___/___
[C] U3 ____% Power Shutdown at Time _____ Date ___/___/___
13. REMARKS: _____

FOLLOW-UP INFORMATION (Lines 14 through 16 Not Required for Initial Notifications)

EMERGENCY RELEASE DATA. NOT REQUIRED IF LINE 6 A IS SELECTED.

14. RELEASE CHARACTERIZATION: TYPE: [A] Elevated [B] Mixed [C] Ground UNITS: [A] Ci [B] Ci/sec [C] µCi/sec
MAGNITUDE: Noble Gases:_____ Iodines:_____ Particulates:_____ Other: _____
FORM: [A] Airborne Start Time _____ Date ___/___/___ Stop Time _____ Date ___/___/___
[B] Liquid Start Time _____ Date ___/___/___ Stop Time _____ Date ___/___/___
15. PROJECTION PARAMETERS: Projection period: _____Hours Estimated Release Duration _____Hours
Projection performed: Time _____ Date ___/___/___
16. PROJECTED DOSE:

DISTANCE	TEDE (mrem)	Adult Thyroid CDE (mrem)
Site boundary	_____	_____
2 Miles	_____	_____
5 Miles	_____	_____
10 Miles	_____	_____

17. APPROVED BY: _____ Title **Emergency Coordinator** Time _____ Date___/___/___
NOTIFIED BY:_____ RECEIVED BY: _____ Time _____ Date ___/___/___

Enclosure 4.2

Guidelines for MANUALLY Completing an INITIAL Message for a

SITE AREA EMERGENCY EVENT

NOTE:
- The initial notification is required to be made within 15 minutes from the official declaration time on Line 10.
- Pre-printed Emergency Notification Forms containing specific EAL# and EAL Description may be used in lieu of Enclosure 4.2.A.

☐ Obtain Enclosure 4.2.A (Nuclear Power Plant Emergency Notification Form) for a SITE AREA EMERGENCY EVENT and complete the form as follows:

☐ **Line 1** Mark "DRILL" or "ACTUAL EVENT".

Enter Message Number (very first message is #1 and then sequential numbering required until event terminated).

☐ **Line 2** Mark/verify "initial" notification. Time, date, and authentication to be completed after line 17.

☐ **Line 3** Verify Site is marked as Oconee and confirmation phone number is 864-882-7076.

☐ **Line 4** Enter/Verify EAL # provided by OSM/EC (use Emergency Action Level Guideline Manual).

Copy/Verify exact EAL Description from the EAL manual.

☐ **Line 5** If a Keowee Hydro Dam/Dike condition "A" does <u>NOT</u> exist, mark Box A and go to Line 6.

If a Keowee Hydro Dam/Dike Condition "A" exists:
- Mark Box B and write "Move residents living downstream of the Keowee Hydro dams to higher ground."
- <u>AND</u> mark Box E and write "Prohibit traffic flow across bridges identified on your inundation maps until the danger has passed."

Guidelines for MANUALLY Completing an INITIAL Message for a

SITE AREA EMERGENCY EVENT

NOTE: An airborne release is considered to be in progress if ANY of the following occurs. Review the Sorento RIA Monitor Screen to display this information.	
1, 2, 3 RIA 40	Steam Generator Tube Leak
1, 2, 3 RIA 45 or 46	Shows increase in activity
1, 2, 3 RIA 47, 48 or 49	Reading > 1 cpm **AND** greater than 1 pound pressure in containment building or actual containment breach is determined
1, 3 RIA 57 or 1, 2, 3 RIA 58	Reading > 1.0 Rad/hr **AND** greater than 1 pound pressure in containment building or actual containment breach is determined
2 RIA 57	Reading > 1.6 Rad/hr **AND** greater than 1 pound pressure in containment building or actual containment breach is determined

☐ **Line 6** Mark B (Is Occurring) if any of the conditions stated in the note above apply. If they do not apply mark None. Complete Line 6 as directed by OSM/EC.

☐ **Line 7** If Box A was marked on Line 6, then mark Box A on this line and go to Line 8.

If Box B was marked on Line 6, then mark Box D (Under Evaluation) UNLESS RP has told you to mark Box B or C and go to Line 8.

If Box C was marked on Line 6, then mark Box D (Under Evaluation) UNLESS RP has told you to mark Box B or C and go to Line 8.

☐ **Line 8** Mark Box A, B, or C as directed by OSM/EC.

☐ **Line 9** Enter the meteorological data if available from RP Shift. If unavailable, leave this line blank. Request RP Shift Dose Assessor perform calculation for Line 9 for Follow-up notification. Follow-up due in 60 minutes.

☐ **Line 10** Enter Time in military units and Date the OSM/EC officially declares a SITE AREA EMERGENCY EVENT.

Guidelines for MANUALLY Completing an INITIAL Message for a

SITE AREA EMERGENCY EVENT

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

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

☐ **Line 11** Mark or select ALL if event affects the emergency classification on more than one unit.

Mark or select one (1) unit if event affects one unit or one (1) unit has a higher emergency classification

NOTE: Unaffected unit status is not required for an initial notification. Unit status is required for all three units for follow-up notifications.

☐ **Line 12** Mark affected unit(s) (reference Line 11) and enter percent power for each unit affected.

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

☐ **Line 13** Add any remarks as requested by the OSM/EC. If there are no remarks write "None".

If an upgrade in classification occurs prior to transmitting the message then include "upgrade to follow" on this line. {1}

Enclosure 4.2

Guidelines for MANUALLY Completing an INITIAL Message for a

SITE AREA EMERGENCY EVENT

NOTE:	Lines 14, 15, & 16 are **NOT** required to be completed for an initial notification. DO **NOT** add or change information on the form after it has been approved by the Emergency Coordinator.

☐ **Line 17** Obtain the OSM/EC signature/time/date of approval.

NOTE:	The "Received By, Time and Date" on Line 17 is completed by the Offsite Agency.

☐ **Line 17** Notified By: Print your name.

☐ To manually transmit this message, go to Enclosure 4.7 (Guidelines for Manually Transmitting A Message).

Nuclear Power Plant Emergency Notification Form

SITE AREA EMERGENCY

Enclosure 4.2.A

1. [A] DRILL [B] ACTUAL EVENT MESSAGE # _____
2. [A] INITIAL [B] FOLLOW-UP NOTIFICATION: TIME_____ DATE____/____/____ AUTHENTICATION # _____
3. SITE: **Oconee Nuclear Site** Confirmation Phone # (864) 882-7076

4. **EMERGENCY CLASSIFICATION:** [A] UNUSUAL EVENT [B] ALERT [C] SITE AREA EMERGENCY [D] GENERAL EMERGENCY

BASED ON EAL #_____, EAL DESCRIPTION: _____

5. **PROTECTIVE ACTION RECOMMENDATIONS:** [A] NONE

[B] EVACUATE

[C] SHELTER

[D] CONSIDER THE USE OF KI (POTASSIUM IODIDE) IN ACCORDANCE WITH STATE PLANS AND POLICY.

[E] OTHER_____

6. **EMERGENCY RELEASE:** [A] None [B] Is Occurring [C] Has Occurred

7. RELEASE SIGNIFICANCE: [A] Not applicable [B] Within normal operating limits [C] Above normal operating limits [D] Under evaluation
8. EVENT PROGNOSIS: [A] Improving [B] Stable [C] Degrading
9. METEOROLOGICAL DATA: Wind Direction* from _____ degrees Wind Speed* _____mph
(*Not Required for Initial Notifications) Precipitation* _____ Stability Class* [A] [B] [C] [D] [E] [F] [G]
10. [A] DECLARATION [B] TERMINATION Time _____ Date ____/____/____
11. AFFECTED UNIT(S): [1] [2] [3] [All]
12. UNIT STATUS: [A] U1 _____% Power Shutdown at Time _____ Date ___/____/___
(Unaffected Unit(s) Status Not Required for Initial Notifications) [B] U2 _____% Power Shutdown at Time _____ Date ___/____/___
[C] U3 _____% Power Shutdown at Time _____ Date ___/____/___
13. REMARKS: _____

FOLLOW-UP INFORMATION (Lines 14 through 16 Not Required for Initial Notifications)

EMERGENCY RELEASE DATA. NOT REQUIRED IF LINE 6 A IS SELECTED.

14. RELEASE CHARACTERIZATION: TYPE: [A] Elevated [B] Mixed [C] Ground UNITS: [A] Ci [B] Ci/sec [C] µCi/sec
MAGNITUDE: Noble Gases:_____ Iodines:_____ Particulates:_____ Other: _____
FORM: [A] Airborne Start Time _____ Date ___/____/___ Stop Time _____ Date ___/____/___
[B] Liquid Start Time _____ Date ___/____/___ Stop Time _____ Date ___/____/___
15. PROJECTION PARAMETERS: Projection period: _____Hours Estimated Release Duration _____Hours
Projection performed: Time _____ Date ___/____/___
16. PROJECTED DOSE:

DISTANCE	TEDE (mrem)	Adult Thyroid CDE (mrem)
Site boundary	_____	_____
2 Miles	_____	_____
5 Miles	_____	_____
10 Miles	_____	_____

17. APPROVED BY: _____ Title **Emergency Coordinator** Time _____ Date___/____/___
NOTIFIED BY:_____ RECEIVED BY: _____ Time _____ Date ___/____/___

Enclosure 4.3

Guidelines for MANUALLY Completing an INITIAL Message for an ALERT EVENT

NOTE:
- The initial notification is required to be made within 15 minutes from the official declaration time on Line 10.
- Pre-printed Emergency Notification Forms containing specific EAL# and EAL Description may be used in lieu of Enclosure 4.3.A.

☐ Obtain Enclosure 4.3.A (Nuclear Power Plant Emergency Notification Form) for an ALERT EVENT and complete the form as follows:

☐ **Line 1** Mark "DRILL" or "ACTUAL EVENT".
Enter Message Number (very first message is #1 and then sequential numbering required until event terminated).

☐ **Line 2** Mark/verify "initial" notification. Time, date, and authentication to be completed after line 17.

☐ **Line 3** Verify Site is marked as Oconee and confirmation phone number is 864-882-7076.

☐ **Line 4** Enter/Verify EAL # provided by OSM/EC (use Emergency Action Level Guideline Manual).

Copy/Verify exact EAL Description from the EAL manual.

☐ **Line 5** Verify Protective Action Recommendation is marked as none.

Guidelines for MANUALLY Completing an INITIAL Message for an ALERT EVENT

NOTE: An airborne release is considered to be in progress if ANY of the following occurs. Review the Sorento RIA Monitor Screen to display this information.	
1, 2, 3 RIA 40	Steam Generator Tube Leak
1, 2, 3 RIA 45 or 46	Shows increase in activity
1, 2, 3 RIA 47, 48 or 49	Reading > 1 cpm **AND** greater than 1 pound pressure in containment building or actual containment breach is determined
1, 3 RIA 57 or 1, 2, 3 RIA 58	Reading > 1.0 Rad/hr **AND** greater than 1 pound pressure in containment building or actual containment breach is determined
2 RIA 57	Reading > 1.6 Rad/hr **AND** greater than 1 pound pressure in containment building or actual containment breach is determined

☐ **Line 6** Mark B (Is Occurring) if any of the conditions stated in the note above apply. If they do not apply mark none. Complete line 6 as directed by OSM/EC.

☐ **Line 7** If Box A was marked on Line 6, then mark Box A on this line and go to Line 8.

If Box B was marked on Line 6, then mark Box D (Under Evaluation) UNLESS RP has told you to mark Box B or C and go to Line 8.

If Box C was marked on Line 6, then mark Box D (Under Evaluation) UNLESS RP has told you to mark Box B or C and go to Line 8.

☐ **Line 8** Mark Box A, B, or C as directed by the OSM/EC.

☐ **Line 9** Enter the meteorological date if available from RP Shift. If unavailable, leave this line blank. Request RP Shift Dose Assessor perform calculation for Line 9 for Follow-up notification. Follow-up due in 60 minutes.

☐ **Line 10** Enter Time in military units and Date the OSM/EC officially declares an ALERT EVENT.

Guidelines for MANUALLY Completing an INITIAL Message for an ALERT EVENT

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

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

☐ **Line 11** Mark or select ALL if event affects the emergency classification on more than one unit.
Mark or select one (1) unit if event affects one unit or one (1) unit has a higher emergency classification.

NOTE: Unaffected unit status is not required for an initial notification. Unit status is required for all three units for follow-up notifications.

☐ **Line 12** Mark affected unit(s) (reference line 11) and enter percent power for each unit affected.

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

☐ **Line 13** Add any remarks as requested by the OSM/EC. If there are no remarks write "None".

If an upgrade in classification occurs prior to transmitting the message then include "upgrade to follow" on this line. {1}

/NOTE: Lines 14, 15, & 16 - These lines are **NOT** required to be completed for an initial notification.

DO **NOT** add or change information on the form after it has been approved by the Emergency Coordinator.

☐ **Line 17** Obtain the OSM/EC signature/time/date of approval.

NOTE: The "Received By, Time and Date" on Line 17 is completed by the Offsite Agency.

☐ **Line 17** Notified By: Print your name.

☐ To manually transmit this message, go to Enclosure 4.7 (Guidelines for Manually Transmitting A Message).

Nuclear Power Plant Emergency Notification Form

ALERT

Enclosure 4.3.A

RP/0/A/1000/015 A

1. [A] DRILL [B] ACTUAL EVENT MESSAGE # _____
2. [A] INITIAL [B] FOLLOW-UP NOTIFICATION: TIME_____ DATE____/____/____ AUTHENTICATION # _____
3. SITE: **Oconee Nuclear Site** Confirmation Phone # (864) 882-7076
4. EMERGENCY CLASSIFICATION: [A] UNUSUAL EVENT [B] ALERT [C] SITE AREA EMERGENCY [D] GENERAL EMERGENCY
   BASED ON EAL #_____ EAL DESCRIPTION: _____
5. **PROTECTIVE ACTION RECOMMENDATIONS:** [A] NONE
   [B] EVACUATE _____
   [C] SHELTER _____
   [D] CONSIDER THE USE OF KI (POTASSIUM IODIDE) IN ACCORDANCE WITH STATE PLANS AND POLICY.
   [E] OTHER_____
6. **EMERGENCY RELEASE:** [A] None [B] Is Occurring [C] Has Occurred
7. RELEASE SIGNIFICANCE: [A] Not applicable [B] Within normal operating limits [C] Above normal operating limits [D] Under evaluation
8. EVENT PROGNOSIS: [A] Improving [B] Stable [C] Degrading
9. METEOROLOGICAL DATA: Wind Direction* from _____ degrees Wind Speed* _____mph
   (*Not Required for Initial Notifications) Precipitation* _____ Stability Class* [A] [B] [C] [D] [E] [F] [G]
10. [A] DECLARATION [B] TERMINATION Time _____ Date ____/____/____
11. AFFECTED UNIT(S): [1] [2] [3] [All]
12. UNIT STATUS: (Unaffected Unit(s) Status Not Required for Initial Notifications)
    [A] U1 ____% Power Shutdown at Time _____ Date ___/____/____
    [B] U2 ____% Power Shutdown at Time _____ Date ___/____/____
    [C] U3 ____% Power Shutdown at Time _____ Date ___/____/____
13. REMARKS: _____

FOLLOW-UP INFORMATION (Lines 14 through 16 Not Required for Initial Notifications)

EMERGENCY RELEASE DATA. NOT REQUIRED IF LINE 6 A IS SELECTED.

14. RELEASE CHARACTERIZATION: TYPE: [A] Elevated [B] Mixed [C] Ground UNITS: [A] Ci [B] Ci/sec [C] µCi/sec
    MAGNITUDE: Noble Gases:_____ Iodines:_____ Particulates:_____ Other: _____
    FORM: [A] Airborne Start Time _____ Date ___/____/____ Stop Time _____ Date ___/____/____
    [B] Liquid Start Time _____ Date ___/____/____ Stop Time _____ Date ___/____/____
15. PROJECTION PARAMETERS: Projection period: _____Hours Estimated Release Duration _____Hours
    Projection performed: Time _____ Date ___/____/____
16. PROJECTED DOSE:

DISTANCE	TEDE (mrem)	Adult Thyroid CDE (mrem)
Site boundary	_____	_____
2 Miles	_____	_____
5 Miles	_____	_____
10 Miles	_____	_____

17. APPROVED BY: _____ Title **Emergency Coordinator** Time _____ Date___/____/____
    NOTIFIED BY:_____ RECEIVED BY: _____ Time _____ Date ___/____/____

Enclosure 4.4

Guidelines for MANUALLY Completing an INITIAL Message for an UNUSUAL EVENT

NOTE: (1) The initial notification is required to be made within 15 minutes from the official declaration time on Line 10.

(2) The OSM can terminate an Unusual Event on the same notification message sheet that an Initial Unusual Event was declared on.

(3) Pre-printed Emergency Notification Forms containing specific EAL# and EAL Description may be used in lieu of Enclosure 4.4.A

☐ Obtain Enclosure 4.4.A (Nuclear Power Plant Emergency Notification Form) for an Unusual Event and complete the form as follows:

☐ **Line 1** Mark "DRILL" or "ACTUAL EVENT".

Enter Message Number (very first message is #1 and then sequential numbering required until event terminated).

☐ **Line 2** Mark/verify "initial" notification. Time, date, and authentication to be completed after line 17.

☐ **Line 3** Verify Site is marked as Oconee and confirmation phone number is 864-882-7076.

☐ **Line 4** Enter/Verify EAL # provided by OSM/EC (use Emergency Action Level Guideline Manual).

Copy/Verify exact EAL Description from the EAL manual.

☐ **Line 5** Verify Protective Action Recommendation is marked as none.

Guidelines for MANUALLY Completing an INITIAL Message for an UNUSUAL EVENT

NOTE: An airborne release is considered to be in progress if ANY of the following occurs. Review the Sorento RIA Monitor Screen to display this information.	
1, 2, 3 RIA 40	Steam Generator Tube Leak
1, 2, 3 RIA 45 or 46	Shows increase in activity
1, 2, 3 RIA 47, 48 or 49	Reading > 1 cpm **AND** greater than 1 pound pressure in containment building or actual containment breach is determined
1, 3 RIA 57 or 1, 2, 3 RIA 58	Reading > 1.0 Rad/hr **AND** greater than 1 pound pressure in containment building or actual containment breach is determined
2 RIA 57	Reading > 1.6 Rad/hr **AND** greater than 1 pound pressure in containment building or actual containment breach is determined

☐ **Line 6** Mark B (Is Occurring) if any of the conditions stated in the note above apply. If they do not apply mark None. Complete Line 6 as directed by OSM/EC

☐ **Line 7** If Box A was marked on Line 6, then mark Box A on this line and go to Line 8.

If Box B was marked on Line 6, then mark Box D (Under Evaluation) UNLESS RP has told you to mark Box B or C and go to Line 8.

If Box C was marked on Line 6, then mark Box D (Under Evaluation) UNLESS RP has told you to mark Box B or C and go to Line 8.

☐ **Line 8** Mark Box A, B, or C as directed by the OSM/EC.

☐ **Line 9** Enter the meteorological data if available from RP Shift. If unavailable, leave this line blank. Request RP Shift Dose Assessor perform calculation for Line 9 for Follow-up notification. Follow-up due in 60 minutes.

☐ **Line 10** Enter Time in military units and Date the OSM/EC officially declares an UNUSUAL EVENT.

Guidelines for MANUALLY Completing an INITIAL Message for an UNUSUAL EVENT

NOTE:	The following list is used to help determine if an event includes only one unit or all units. The list may not be all inclusive. • Security event • Seismic event • Tornado on site • Hurricane force winds on site • SSF • Fire affecting shared safety related equipment

☐ **Line 11** Mark or select ALL if event affects the emergency classification on more than one unit.

Mark or select one (1) unit if event affects one unit or one (1) unit has a higher emergency classification.

NOTE:	Unaffected unit status is not required for an initial notification. Unit status is required for all three units for follow-up notifications.

☐ **Line 12** Mark affected unit(s) (reference line 11) and enter percent power for each unit affected.

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

☐ **Line 13** Add any remarks as requested by the OSM/EC. If there are no remarks write "None".

If an upgrade in classification occurs prior to transmitting the message then include "upgrade to follow" on this line. {1}

NOTE:	Lines 14, 15, & 16 - These lines are **NOT** required to be completed for an initial notification. DO **NOT** add or change information on the form after it has been approved by the Emergency Coordinator.

☐ **Line 17** Obtain the OSM/EC signature/time/date of approval.

NOTE:	The "Received By, Time and Date" on Line 17 is completed by the Offsite Agency.

☐ **Line 17** Notified By: Print your name.

☐ To manually transmit this message, go to Enclosure 4.7 (Guidelines for Manually Transmitting A Message).

Nuclear Power Plant Emergency Notification Form

RP/0/A/1000/015A

UNUSUAL EVENT

Enclosure 4.4.A

1. [A] DRILL [B] ACTUAL EVENT MESSAGE # _____
2. [A] INITIAL [B] FOLLOW-UP NOTIFICATION: TIME_____ DATE____/____/____ AUTHENTICATION # ____
3. SITE: __Oconee Nuclear Site Confirmation Phone # (864)_882-7076_____
4. EMERGENCY CLASSIFICATION: [A] UNUSUAL EVENT [B] ALERT [C] SITE AREA EMERGENCY [D] GENERAL EMERGENCY

   BASED ON EAL #_____ EAL DESCRIPTION: _____
5. **PROTECTIVE ACTION RECOMMENDATIONS:** [A] NONE

   [B] EVACUATE _____

   [C] SHELTER _____

   [D] CONSIDER THE USE OF KI (POTASSIUM IODIDE) IN ACCORDANCE WITH STATE PLANS AND POLICY.

   [E] OTHER_____
6. **EMERGENCY RELEASE:** [A] None [B] Is Occurring [C] Has Occurred
7. RELEASE SIGNIFICANCE: [A] Not applicable [B] Within normal operating limits [C] Above normal operating limits [D] Under evaluation
8. EVENT PROGNOSIS: [A] Improving [B] Stable [C] Degrading
9. METEOROLOGICAL DATA: Wind Direction* from _____ degrees Wind Speed* _____mph

   (*Not Required for Initial Notifications) Precipitation* _____ Stability Class* [A] [B] [C] [D] [E] [F] [G]
10. [A] DECLARATION [B] TERMINATION Time _____ Date ____/_____/_____
11. AFFECTED UNIT(S): [1] [2] [3] [All]
12. UNIT STATUS:

    (Unaffected Unit(s) Status Not Required for Initial Notifications)

    [A] U1 ____% Power Shutdown at Time _____ Date ___/____/___

    [B] U2 ____% Power Shutdown at Time _____ Date ___/____/___

    [C] U3 ____% Power Shutdown at Time _____ Date ___/____/___
13. REMARKS: _____

FOLLOW-UP INFORMATION (Lines 14 through 16 Not Required for Initial Notifications)

EMERGENCY RELEASE DATA. NOT REQUIRED IF LINE 6 A IS SELECTED.

14. RELEASE CHARACTERIZATION: TYPE: [A] Elevated [B] Mixed [C] Ground UNITS: [A] Ci [B] Ci/sec [C] µCi/sec

    MAGNITUDE: Noble Gases:_____ Iodines:_____ Particulates:_____ Other: _____

    FORM: [A] Airborne Start Time _____ Date ___/____/___Stop Time _____ Date ___/____/___

    [B] Liquid Start Time _____ Date ___/____/___Stop Time _____ Date ___/____/___
15. PROJECTION PARAMETERS: Projection period: _____Hours Estimated Release Duration _____Hours

    Projection performed: Time _____ Date ___/____/___
16. PROJECTED DOSE:

DISTANCE	TEDE (mrem)	Adult Thyroid CDE (mrem)
Site boundary	_____	_____
2 Miles	_____	_____
5 Miles	_____	_____
10 Miles	_____	_____

17. APPROVED BY: _____ Title **Emergency Coordinator** Time _____ Date___/____/___

    NOTIFIED BY:_____ RECEIVED BY: _____ Time _____ Date ___/____/___

Enclosure 4.5

Guidelines for MANUALLY Completing a FOLLOW-UP Message

NOTE:
- Follow-up notifications are **NOT** required to be verbally transmitted. Follow-Up messages may be faxed with phone verification of receipt. This applies only if the message does not involve a change in the emergency classification or the protective action recommendation or a termination of the drill/emergency.
- A Follow-Up message is due 60 minutes from the notification time on line 2 of the previous message sheet.
- A change in Protective Action Recommendations (PARs) is due within 15 minutes from the time they are determined by the OSM Emergency Coordinator/RP Shift Dose Assessor.

NOTE: Pre-printed Emergency Notification Forms containing specific EAL# and EAL Description may be used in lieu of Enclosure 4.5.A

☐ Obtain Enclosure 4.5.A (Nuclear Power Plant Emergency Notification Form) and complete as directed below for a FOLLOW-UP message.

☐ **Line 1** Mark "DRILL" or "ACTUAL EVENT".

Enter Message Number (very first message is #1 and then sequential numbering required until event terminated).

☐ **Line 2** Mark/Verify Box B is marked as Follow-Up. Notification, time, date and authentication to be completed after Line 17.

☐ **Line 3** Verify site is marked as Oconee and confirmation phone number is 864-882-7076.

☐ **Line 4** Copy/Verify the same Emergency Classification from the previous message sheet.

Copy/Verify the same EAL # from the previous message sheet.

Copy/Verify the same EAL Description from previous message sheet

☐ **Line 5** Copy the same Protective Action Recommendations from the previous message Sheet if the OSM/EC has **NOT** upgraded them. If they have changed, revise PARs as directed by the OSM/EC or RP Shift Dose Assessor.

If a Keowee Hydro Dam/Dike Condition "A" exists:
- Mark Box B and write "Move residents living downstream of the Keowee Hydro dams to higher ground."
- AND mark Box E and write "Prohibit traffic flow across bridges identified on your inundation maps until the danger has passed."

Guidelines for MANUALLY Completing a FOLLOW-UP Message

NOTE: An airborne release is considered to be in progress if ANY of the following occurs. Review the Sorento RIA Monitor Screen to display this information.	
1, 2, 3 RIA 40	Steam Generator Tube Leak
1, 2, 3 RIA 45 or 46	Shows increase in activity
1, 2, 3 RIA 47, 48 or 49	Reading > 1 cpm **AND** greater than 1 pound pressure in containment building or actual containment breach is determined
1, 3 RIA 57 or 1, 2, 3 RIA 58	Reading > 1.0 Rad/hr **AND** greater than 1 pound pressure in containment building or actual containment breach is determined
2 RIA 57	Reading > 1.6 Rad/hr **AND** greater than 1 pound pressure in containment building or actual containment breach is determined

☐ **Line 6** Mark Box A, B, or C as directed by the OSM/EC.

NOTE: If Line 6, Box B or Box C is marked, RP Shift should be contacted at Ext. 2313 to obtain information to complete lines 7, 9, 14, 15, and 16.

☐ **Line 7** If Box A was marked on Line 6, then mark Box A on this line and go to Line 8.

If Box B was marked on Line 6, then determine from the RP Shift Dose Assessor whether to mark Box B, C, or D and then go to Line 8.

If Box C was marked on Line 6, then determine from the RP Shift Dose Assessor whether to mark Box B, C, or D and then go to Line 8.

☐ **Line 8** Mark Box A, B, or C as directed by the OSM/EC.

NOTE: If Line 6, Box B or Box C is marked, RP Shift should be contacted at Ext. 2313 to obtain information to complete lines 7, 9, 14, 15, and 16.

☐ **Line 9** Obtain meteorological data from the RP Shift Dose Assessor and complete Line 9.

☐ **Line 10** Mark Box A and copy the same Time/Date from the previous message sheet.

Guidelines for MANUALLY Completing a FOLLOW-UP Message

☐ **Line 11** Mark the same affected unit or "All" from the previous message sheet.

☐ **Line 12** Mark A, B & C then enter percent power and/or shutdown time/date for all three units for a follow-up message.

NOTE: Examples of new information include: Evacuation/relocation of site personnel; fires onsite; MERT activation and/or injured personnel transported offsite; chemical spills; explosions; Condition "A" or "B" for a Keowee Hydro Project Dam/Dikes; or any event that would cause or require offsite agency response.

☐ **Line 13** Add any remarks or new information as requested by the OSM/EC

Write "None" if there are no additional remarks.

If an upgrade in classification occurs prior to transmitting the message then include "upgrade to follow" on this line. {1}

NOTE: If Line 6, Box B or Box C is marked, RP Shift should be contacted at Ext. 2313 to obtain information to complete lines 7, 9, 14, 15, and 16.

☐ **Line 14 - 16** Leave these lines blank if Line 6A is selected.

If Line 6B or 6C is selected, then obtain information to complete these lines from RP Shift Dose Assessor.

DO **NOT** add or change information on the form after it has been approved by the Emergency Coordinator.

☐ **Line 17** Obtain the OSM/EC signature/time/date of approval.

NOTE: The "Received By, Time and Date" on Line 17 is completed by the Offsite Agency.

☐ **Line 17** Notified By: Print your name. Copy Emergency Notification Form. For guidance see Enclosure 4.8 (Copy/Fax Operation).

☐ To manually transmit this message, go to Enclosure 4.7 (Guidelines for Manually Transmitting A Message).

Nuclear Power Plant Emergency Notification Form

RP/0/A/1000/015A

FOLLOW-UP

Enclosure 4.5.A

1. [A] DRILL [B] ACTUAL EVENT MESSAGE # _____
2. [A] INITIAL [B] FOLLOW-UP NOTIFICATION: TIME_____ DATE____/____/____ AUTHENTICATION # _____
3. SITE: **Oconee Nuclear Site** Confirmation Phone # (864) 882-7076

4. **EMERGENCY CLASSIFICATION:** [A] UNUSUAL EVENT [B] ALERT [C] SITE AREA EMERGENCY [D] GENERAL EMERGENCY

BASED ON EAL #_____ EAL DESCRIPTION: _____

5. **PROTECTIVE ACTION RECOMMENDATIONS:** [A] NONE

[B] EVACUATE _____

[C] SHELTER _____

[D] CONSIDER THE USE OF KI (POTASSIUM IODIDE) IN ACCORDANCE WITH STATE PLANS AND POLICY.

[E] OTHER_____

6. **EMERGENCY RELEASE:** [A] None [B] Is Occurring [C] Has Occurred

7. RELEASE SIGNIFICANCE: [A] Not applicable [B] Within normal operating limits [C] Above normal operating limits [D] Under evaluation

8. EVENT PROGNOSIS: [A] Improving [B] Stable [C] Degrading

9. METEOROLOGICAL DATA: Wind Direction* from _____ degrees Wind Speed* _____mph

(*May not be available for Initial Notifications) Precipitation* _____ Stability Class* [A] [B] [C] [D] [E] [F] [G]

10. [A] DECLARATION [B] TERMINATION Time _____ Date ____/____/____

11. AFFECTED UNIT(S): [1] [2] [3] [All]

12. UNIT STATUS:

(Unaffected Unit(s) Status Not Required for Initial Notifications)

[A] U1 _____% Power Shutdown at Time _____ Date ___/____/____

[B] U2 _____% Power Shutdown at Time _____ Date ___/____/____

[C] U3 _____% Power Shutdown at Time _____ Date ___/____/____

13. REMARKS: _____

FOLLOW-UP INFORMATION (Lines 14 through 16 Not Required for Initial Notifications)

EMERGENCY RELEASE DATA. NOT REQUIRED IF LINE 6 A IS SELECTED.

14. RELEASE CHARACTERIZATION: TYPE: [A] Elevated [B] Mixed [C] Ground UNITS: [A] Ci [B] Ci/sec [C] µCi/sec

MAGNITUDE: Noble Gases:_____ Iodines:_____ Particulates:_____ Other: _____

FORM: [A] Airborne Start Time _____ Date ___/____/____Stop Time _____ Date ___/____/____

[B] Liquid Start Time _____ Date ___/____/____Stop Time _____ Date ___/____/____

15. PROJECTION PARAMETERS: Projection period: _____Hours Estimated Release Duration _____Hours

Projection performed: Time _____ Date ___/____/____

16. PROJECTED DOSE:

DISTANCE	TEDE (mrem)	Adult Thyroid CDE (mrem)
Site boundary	_____	_____
2 Miles	_____	_____
5 Miles	_____	_____
10 Miles	_____	_____

17. APPROVED BY: _____ Title: **Emergency Coordinator** Time _____ Date___/____/____

NOTIFIED BY:_____ RECEIVED BY: _____ Time _____ Date ___/____/____

Enclosure 4.6

Guidelines for MANUALLY Completing a TERMINATION Message

☐ Obtain Enclosure 4.6.A (Nuclear Power Plant Emergency Notification Form), blank form and complete as follows for a TERMINATION message.

NOTE: Only required to complete lines 1, 3, 10, and 17. All other lines are left BLANK.

☐ **Line 1** Mark "DRILL" or "ACTUAL EVENT".

Enter Message Number (very first message is #1 and then sequential numbering required until event terminated).

☐ **Line 3** Verify site is marked as Oconee and confirmation phone number is 864-882-7076.

☐ **Line 10** Mark Box B and enter the time in military units and date OSM/EC terminated the event.

DO **NOT** add or change information on the form after it has been approved by the Emergency Coordinator.

☐ **Line 17** Obtain the OSM/EC signature/time/date of approval.

NOTE: The "Received By, Time and Date" on Line 17 is completed by the Offsite Agency.

☐ **Line 17** Notified By: Print your name

☐ To manually transmit this message, go to Enclosure 4.7 (Guidelines for Manually Transmitting A Message).

Nuclear Power Plant Emergency Notification Form
TERMINATION
Enclosure 4.6.A

RP/0/A/1000/015A

1. [A] DRILL [B] ACTUAL EVENT MESSAGE # _____
2. [A] INITIAL [B] FOLLOW-UP NOTIFICATION: TIME_____ DATE____/____/____ AUTHENTICATION # _____
3. SITE: **Oconee Nuclear Site** Confirmation Phone # (864) 882-7076

4. **EMERGENCY CLASSIFICATION:** [A] UNUSUAL EVENT [B] ALERT [C] SITE AREA EMERGENCY [D] GENERAL EMERGENCY
BASED ON EAL #_____ EAL DESCRIPTION: _____

5. **PROTECTIVE ACTION RECOMMENDATIONS:** [A] NONE
[B] EVACUATE _____
[C] SHELTER _____
[D] CONSIDER THE USE OF KI (POTASSIUM IODIDE) IN ACCORDANCE WITH STATE PLANS AND POLICY.
[E] OTHER_____

6. **EMERGENCY RELEASE:** [A] None [B] Is Occurring [C] Has Occurred

7. RELEASE SIGNIFICANCE: [A] Not applicable [B] Within normal operating limits [C] Above normal operating limits [D] Under evaluation
8. EVENT PROGNOSIS: [A] Improving [B] Stable [C] Degrading
9. METEOROLOGICAL DATA: Wind Direction* from _____ degrees Wind Speed* _____mph
(*May not be available for Initial Notifications) Precipitation* _____ Stability Class* [A] [B] [C] [D] [E] [F] [G]
10. [A] DECLARATION [B] TERMINATION Time _____ Date ____/____/____
11. AFFECTED UNIT(S): [1] [2] [3] [All]
12. UNIT STATUS: [A] U1 ____% Power Shutdown at Time _____ Date ___/____/____
(Unaffected Unit(s) Status Not Required for Initial Notifications) [B] U2 ____% Power Shutdown at Time _____ Date ___/____/____
[C] U3 ____% Power Shutdown at Time _____ Date ___/____/____
13. REMARKS: _____

FOLLOW-UP INFORMATION (Lines 14 through 16 Not Required for Initial Notifications)

EMERGENCY RELEASE DATA. NOT REQUIRED IF LINE 6 A IS SELECTED.

14. RELEASE CHARACTERIZATION: TYPE: [A] Elevated [B] Mixed [C] Ground UNITS: [A] Ci [B] Ci/sec [C] µCi/sec
MAGNITUDE: Noble Gases:_____ Iodines:_____ Particulates:_____ Other: _____
FORM: [A] Airborne Start Time _____ Date ___/____/____Stop Time _____ Date ___/____/____
[B] Liquid Start Time _____ Date ___/____/____Stop Time _____ Date ___/____/____
15. PROJECTION PARAMETERS: Projection period: _____Hours Estimated Release Duration _____Hours
Projection performed: Time _____ Date ___/____/____
16. PROJECTED DOSE:

DISTANCE	TEDE (mrem)	Adult Thyroid CDE (mrem)
Site boundary	_____	_____
2 Miles	_____	_____
5 Miles	_____	_____
10 Miles	_____	_____

17. APPROVED BY: _____ Title **Emergency Coordinator** Time _____ Date___/____/____
NOTIFIED BY:_____ RECEIVED BY: _____ Time _____ Date ___/____/____

Message Transmission

NOTE: Emergency Action Level Guidelines Manual and yellow folder are needed for this enclosure.

☐ Fax Form - For guidance see Enclosure 4.8 (Copy/Fax Operation)

☐ Use Speed Dial 14 (Speed Dial 17 can be used as backup).

☐ Dial *4 on selective signaling phone

☐ As agencies answer, say "*This is the Oconee Nuclear Station, please hold.*"

☐ Document on Line 2 of the ENF, the time/date when the first agency answers the Selective Signaling phone.

Check off the following MINIMUM required agencies as they answer the phone and record time and date in table below. {4}

Date: _____

☐ **Oconee County** (Staffed 24 hrs.)
Law Enforcement Center
864-638-4111, FAX: 864-638-4434
Selective Signaling 416
Initial notification time: _____
Follow-up notification time: _____

OR

☐ **Oconee County** (M-F 8:30 am -5 pm)
Emergency Management
864-638-4200, FAX: 864-638-4216
Selective Signaling 417
Initial notification time: _____
Follow-up notification time: _____

☐ **Pickens County** (Staffed 24 hrs)
Law Enforcement Center
864-898-5500, FAX: 864-898-5531
Selective Signaling 410
Initial notification time: _____
Follow-up notification time: _____

OR

☐ **Pickens County** (M-F 8:30 am.-5 pm)
Emergency Management
864-898-5943, FAX: 864-898-5797
Selective Signaling 419
Initial notification time: _____
Follow-up notification time: _____

☐ **South Carolina State Warning Point** (Staffed 24 hrs)
803-737-8500 FAX: 803-737-8575
Selective Signaling 518
Initial notification time: _____
Follow-up notification time: _____

NOTE: DHEC receives FAX, NO action required. DHEC may verify receipt of FAX with a call back.

☐ **IF** Required minimum agencies did not answer the phone

THEN Dial the absent agency selective signaling number. (get agency number from table in preceding step)

- If agency does not answer, then go to next step.

☐ If requested, authenticate message. Write in number provided by agency on line 2 and provide corresponding code word from authentication list in yellow folder.

NOTE:	For Follow-Up or Termination Messages, only verification that all agencies have received a fax is necessary.

☐ **IF** This is an initial notification and/or a change to Protective Action Recommendations

THEN Say "*This is the Oconee Nuclear Station Control Room. This is a Drill/Emergency (choose one). If you have not already received a fax or printed an electronic copy of the Emergency Notification Form, please obtain a blank copy of the form. I am going to read the entire form beginning with line 1. Please hold all questions until the entire form has been read.*"

Slowly read entire message line by line to the agencies allowing time for them to copy the information or to review fax/electronic copy of the ENF.

☐ After message has been delivered, say *"I need to verify the name of each agency representative. When I call out the agency, please give your name."*

☐ Document name of each person contacted. {4}

Initial Notification

Oconee County Law Enforcement Center	Name: _____
Oconee County Emergency Management	Name: _____
Pickens County Law Enforcement Center	Name: _____
Pickens County Emergency Management	Name: _____
South Carolina State Warning Point	Name: _____

Follow-Up Notification

Oconee County Law Enforcement Center	Name: _____
Oconee County Emergency Management	Name: _____
Pickens County Law Enforcement Center	Name: _____
Pickens County Emergency Management	Name: _____
South Carolina State Warning Point	Name: _____

☐ **IF** A Keowee dam/dike condition "A" or "B" or external flood condition exist for the site

THEN FAX form using Speed Dial #27

Once form is faxed, make phone calls to GEMA and National Weather Service using phone numbers in table below. GEMA will notify Hart and Elbert County.

Begin call by saying "You should have received a fax indicating Keowee Hydro Dam/Dike is in condition "A" or "B" or an external flood condition exist for the site, do you have any questions?"

☐	**Georgia Emergency Management Agency (GEMA) (404-635-7000 or 404-635-7200)** FAX Speed Dial 27 (Fax form for any Condition A or B dam/dike event) **Name:** _____ Time/Date: _____ ___/___/___ Eastern MM DD YY
☐	**National Weather Service (NWS) (864-879-1085)** FAX Speed Dial 27 (Fax form for any Condition A or B dam/dike event) **Name:** _____ Time/Date: _____ ___/___/___ Eastern MM DD YY
☐	**Hart County Emergency Management Agency - Georgia (GEMA will notify)** Fax Speed Dial 27 (Fax form for any condition A or B dam/dike event)
☐	**Elbert County Emergency Management Agency - Georgia (GEMA will notify)** Fax Speed Dial 27 (Fax form for any condition A or B dam/dike event)

☐ Record any agency questions unrelated to message on Enclosure 4.11 (Response to Offsite Agency Questions) and inform agency that you will contact them with the answer.

☐ End call by saying, *"If you haven't already, you will be receiving a fax copy of this message shortly. Additional information will be provided as it becomes available. This concludes this message."*

☐ If one of the required agencies did not answer selective signaling, try alternate method to reach agency. Refer to Enclosure 4.9 (Alternate Method and Sequence to Contact Offsite Agencies) and the Emergency Telephone Directory for guidance as needed. Once agency contacted, read message and then record agency name, time, and date contacted in space above.

☐ Retrieve Confirmation Report from fax and verify all required agencies received the message.

☐ If questions were asked by an offsite agency complete all sections on Enclosure 4.11 (Response to Offsite Agency Questions). Fax the form to all agencies and follow-up with a verbal call to ensure receipt of the form and that there are no additional questions. Attach applicable message sheet to this form.

☐ Provide OSM/Emergency Coordinator with completed notification form.

☐ Provide the OSM/Emergency Coordinator with a status of offsite notifications:

-Agencies notified/not notified
-Any communications equipment problems:

NOTE: The following step is **NOT** applicable for termination message.

☐ If meteorological data was not provided on the previous message, then initiate a follow-up message and include the met data.

☐ Attach ALL completed enclosures to the applicable message sheet.

NOTE: The following step is **NOT** applicable for termination message.

☐ Initiate turnover to the TSC Offsite Communicator by completing Enclosure 4.10 (Turnover Checklist)

_____ 1. The Control Room Offsite Communicator will fax turnover sheet to the TSC
_____ 2. Review the form with the TSC Offsite Communicator

☐ **IF** Turnover has been completed, or event is terminated

THEN go to Step 3.4 of Subsequent Actions.

☐ **IF** Turnover has **NOT** been initiated

THEN GO to Subsequent Actions 3.1

NOTE:	This enclosure provides basic operating instructions for the primary faxes in the TSC, U-1/2 Control Room and OSC.

1. TSC/Control Room/OSC/EOF

NOTE:	The "STOP" button is used to cancel sending, receiving, registering data or cancel any other operation. Transmission of the notification form will start automatically after the dialing operation is completed. Since this is a send operation to multiple faxes, the Fax scans the document(s) prior to automatic dialing.

☐ 1.1 FAX the notification form using the following method:

A. Insert notification form. Adjust document guide if needed

B. Determine which Speed Dial Code number to use

C. Press the Speed Dial Code number

D. Press the START button

☐ 1.2 Copy the notification form using the following method:

A. Insert notification form. Adjust document guide if needed

B. Press copy button

C. Press START button

The following Speed Dial Codes have been programmed into the fax in the TSC/Unit 1&2 Control Room/OSC:

Speed Dial Code	Agency/Location Sent To	
01	NRC	
02	Pickens County EMA	
03	Oconee County EMA	
04	SC State Warning Point	
05	SEOC	
06	DHEC-BSHWM	
07	EOF	
08	OSC	
09	World Of Energy	
10	Alternate TSC	
11	Oconee Complex	
12	SSG & NSC	
13	JIC	
14	Dial Group:	Pickens County EMA Oconee County EMA SC State Warning Point Oconee County LEC Pickens County LEC EOF World Of Energy GO JIC
15	Dial Group:	Pickens County EMA Oconee County EMA
16	FEOC	
17	Dial Group:	Pickens County EMA Oconee County EMA SC State Warning Point EOF World Of Energy GO JIC
18	Oconee County LEC	
19	Safety Assurance	
20	GO JIC	
21	Security	
25	National Weather Service	
26	GEMA	
27	Dial Group: National Weather Service GEMA Hart Co. EMA Elbert Co. EMA	
29	Dial Group: EOF; OSC	
30	ONS SRG/RC/EC	
31	Dial Group: OSC; Security	

ALTERNATE METHOD AND SEQUENCE TO CONTACT AGENCIES

NOTE:	Phone numbers and radio operating instructions are included in the Emergency Telephone Directory.

☐ Plant phone system(direct outside line)

☐ Portable phone system (direct outside line)

☐ Offsite Base Radio from the Control Room

Push SEL on WQC699 frequency panel.

Adjust volume control knob to a high setting.

Enter the group call radio code 30* using the numeric key pad, OR enter the applicable radio code for the offsite agency.

Oconee County LEC	32*
Pickens County LEC	35*
Pickens County EMA	31*

NOTE:	Pickens County EMA is not staffed after 1700 hours Monday - Friday or on weekends and holidays.

Press MONITOR button to determine if the selected frequency is in use.

Depress FOOT PEDAL or XMIT button AND keep engaged while talking.

Call the offsite agency being contacted by using applicable Identifier. For Example - "Oconee Control Room to Oconee LEC".

Oconee County LEC	Oconee LEC
Pickens County LEC	Pickens LEC
Pickens County EMA	Pickens EOC
U 1&2 Control Room	Oconee Control Room

Release FOOT PEDAL or XMIT button to receive incoming response from offsite agency.

Record Time/Call Letters of agency/agencies receiving notification on the Emergency Notification Form.

Oconee County LEC	KNBE-488
Pickens County LEC	KNBZ-965
Pickens County EMA	KNBE-480

☐ End radio transmission using Call Letters WQC699.

☐ Satellite telephones located in U1&2 OSM office and U/3 procedure room in Control Room.

Enclosure 4.10

Turnover Checklist

Date: _____ Offsite Communicator's Name: _____

COMMUNICATIONS STATUS

Indicate which agencies have been contacted:	**YES**	**NO**
Oconee County Law Enforcement Center		
Oconee County Emergency Management Agency		
Pickens County Law Enforcement Center		
Pickens County Emergency Management Agency		
State Warning Point - (South Carolina Highway Dept. is a backup should the State Warning Point loose communications)		
DHEC (BSHWM)		

Communications Problems Experienced: _____

_____

_____

Site Evacuation: Yes____ No _____ Time Evacuation Initiated _____

Evacuation Location:

Daniel High School Yes _____ No _____

Keowee Elementary Yes _____ No _____

Home Yes_____No _____

Site Relocation: Yes _____ No_____ Assembly Location _____

Alternate Facility Activated: TSC: Yes _____ No_____ OSC: Yes_____No_____

Other Pertinent Information (Evacuation/relocation of site personnel; fires onsite; MERT activation and/or injured personnel transported offsite; chemical spills; explosions; Condition "A" or "B" for Keowee Hydro Project Dams/Dikes or any event that would cause or require offsite agency response):

_____

_____

Last Emergency Notification Form Message Number:_____

Next Message Due (Time)_____

Enclosure 4.11

Response To Offsite Agency Questions

QUESTION # _____

Requesting Offsite Agency Name _____

Name of Individual from Agency _____

Offsite Communicator's Name _____

Applicable Emergency Notification Form Message Number ____

ENTER AGENCY QUESTION:_____

_____

_____

_____

_____

ENTER EMERGENCY COORDINATOR ANSWER: _____

_____

_____

_____

_____

Approved by Emergency Coordinator: _____

Response Provided To (Name): _____Date _____Time _____

ACRONYM LISTING

CAN	Community Alert Network
CDEP	County Director of Emergency Preparedness
DHEC (BSHWM)	Dept. of Health and Environmental Control (Bureau of Solid Hazardous Waste & Management)
EAL	Emergency Action Level
EC	Emergency Coordinator
EMA	Emergency Management Agency
ENS	Emergency Notification System
EOC	Emergency Operating Center
EOF	Emergency Operations Facility
EOFD	Emergency Operations Facility Director
ERO	Emergency Response Organization
FAX	Facsimile
FEOC	Forward Emergency Operations Center
FMT	Field Monitoring Team
GEMA	Georgia Emergency Management Agency
HPN	Health Physics Network
IAAT	If At Any Time
JIC	Joint Information Center
LEC	Law Enforcement Center
NEP	Nuclear Emergency Planning
NRC DSO	Nuclear Regulatory Commission, Director of Site Operations
NRC EOC	Nuclear Regulatory Commission, Emergency Operations Center
NSC	Nuclear Supply Chain
NWS	National Weather Service
OSC	Operational Support Center
OSM	Operations Shift Manager
PAR	Protective Action Recommendation
SCEHD	South Carolina Highway Department
SDEM	State Director of Emergency Management
SEOC	State Emergency Operations Center
SRG	Safety Review Group
SSG	Site Services Group
SS	Selective Signaling
SWP	State Warning Point
TS	Technical Specifications
TSC	Technical Support Center

References

1. PIP - G-07-0127
2. PIP O-11-9459
3. PIP O-12-1590
4. PIP O-13-04559

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/1000/015A
2. Revision No.: 003
3. Change No.: __ **Note:** if this package is for a change, replace hyphen with a letter.
4. Procedure Title: Offsite Communications from the Control Room
5. For changes only, enter procedure sections affected: __
6. Prepared By: Natalie Harness
7. Preparation Date: 11/24/2014
8. PCR Numbers Included in Revision: ONS-2014-05918

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.

Form 703-1. Procedure Process Record (PPR)

(R08-10)

Duke Energy

PROCEDURE PROCESS RECORD

(1) ID No. RP/0/A/1000/015A

Revision No. 003

PREPARATION

(2) Station OCONEE NUCLEAR STATION

(3) Procedure Title Offsite Communications from the Control Room

(4) Prepared By* Natalie Harness (Signature) Natalie Harness Date 11/24/2014

(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* Donald A. Crowl (QR)(KI) Date 12-7-14

Cross-Disciplinary Review By* _____ (QR)(KI) NA Date 12-7-14

Reactivity Mgmt Review By* _____ (QR) NA Date 12-7-14

Mgmt Involvement Review By* _____ (Ops. Supt.) NA Date 12-7-14

(7) Additional Reviews

Reviewed By* _____ Date _____

Reviewed By* _____ Date _____

(8) Approved By* Patrick M Street Date 12/10/14

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)*

* *Printed Name and Signature*

Procedure Title: Offsite Communications from the Control Room

SUMMARY OF CHANGES: (DESCRIPTION AND REASON)

General Changes

See attached change matrix.
Minor editorial changes. (indentation corrections)
Addition of an ENF form for compliance with 10CFR50, App E, Section IV.3, Protective Action Recommendations (PARs) guidance as provided in NUREG-0654, Supplement 3, "Guidance for Protective Action Strategies". (Hostile Action Based Event)

PCR Numbers Incorporated

ONS-2014-05918

Enclosure

Attachment to 50.54q

RP/0/A/1000/015A, Rev 003, Offsite Communications from the Control Room

#	Page /Section	Current	Proposed Change	Reason
1.	Page 2 of 5 Note section	Note: This procedure is an implementing Procedure to the Oconee Nuclear Site Emergency Plan and must be forwarded to Emergency Planning within seven (7) working days of approval.	NOTE: • This is an implementing Procedure to the Oconee Nuclear Site Emergency Plan and must be reviewed in accordance with 10CFR50.54q by Emergency Preparedness within seven (7) working days of approval.	Enhancement: Added the following note to ensure evaluation for a 10CFR50.54q effectiveness review.
2.	Page 2 of 5 Notes	**NOTE:** Actions within the body of this procedure are **NOT** required to be performed in sequence. **NOTE:** This procedure is an implementing Procedure to the Oconee Nuclear Site Emergency Plan and must be forwarded to Emergency Planning within seven (7) working days of approval.	NOTE: • Actions within the body of this procedure are **NOT** required to be performed in sequence. • Emergency Notification Forms (ENF) for an Initial or Upgrade are typically completed by the OSM. When the OSM is not available, or when directed by the OSM, the Offsite Communicator will complete the Initial/Upgrade ENF per this procedure. Otherwise, the Offsite Communicator will complete applicable Immediate and Subsequent steps for Follow-Up and Termination notifications.	Enhancement: combined both Note boxes into a single box.
3.	Enclosure 4.1 Page 1 of 3	Obtain Enclosure 4.1.A (Nuclear Power Plant Emergency Notification Form) for a GENERAL EMERGENCY EVENT and complete the form as follows:	Obtain <u>one</u> of the following, as appropriate, and complete the forms as follows: • Enclosure 4.1.A (Nuclear Power Plant Emergency Notification Form - GENERAL EMERGENCY) • Enclosure 4.1.B (Nuclear Power Plant Emergency Notification Form - Hostile Action Based Event - GENERAL EMERGENCY)	This change is being made to adopt Protective Action Recommendations (PARs) guidance as provided in NUREG-0654, Supp 3, "Guidance for Protective Action Strategies" for compliance with 10CFR50, App E, Section IV.3.
4.	Enclosure 4.1 Page 1 of 3	**Line 1** Mark "DRILL" or "ACTUAL EVENT". Enter Message Number (very first message is #1 and then sequential numbering required until event terminated).	**Line 1** Mark "DRILL" or "ACTUAL EVENT". Enter Message Number (very first message is #1 and then sequential numbering required until event terminated).	Editorial: correct indentations
5.	Enclosure 4.1 Page 1 of 3	**Line 2** Mark/verify "initial" notification. Time, date, and authentication to be completed after line 17.	**Line 2** Mark/verify "initial" notification. Time, date, and authentication to be completed after line 17.	Editorial: remove un-necessary spacing
6.	Enclosure 4.1 Page 1 of 3	**Line 4** Enter/Verify EAL# provided by OSM/EC (use Emergency Action Level Guideline Manual).	**Line 4** Enter/Verify EAL# provided by OSM/EC (use Emergency Action Level Guideline Manual).	Editorial: correct indentations

#	Page /Section	Current	Proposed Change	Reason
7.	Enclosure 4.1 Page 1 of 3	**Line 5...** If a Keowee Hydro Dam/Dike Condition "A" exists: Mark Box B and write "*Move residents living downstream of the Keowee Hydro dams to higher ground.* AND mark Box E and write *"Prohibit traffic flow across bridges identified on your inundation maps until the danger has passed."*	**Line 5...** If a Keowee Hydro Dam/Dike Condition "A" exists: Mark Box B and write "Move residents living downstream of the Keowee Hydro dams to higher ground. AND mark Box E and write "Prohibit traffic flow across bridges identified on your inundation maps until the danger has passed."	Editorial: remove italics, not acceptable form of emphasis in procedures writers guide
8.	Enclosure 4.1 Page 2 of 3	**Line 7** If Box A was marked on Line 6, then mark Box A on this line and go to Line 8. If Box B was marked on Line 6, then mark Box D (under Evaluation) UNLESS RP has told you to mark Box B or C and go to Line 8. If Box C was marked on Line 6, then mark Box D (Under Evaluation) UNLESS RP has told you to mark Box B or C and go to Line 8.	**Line 7** **IF** Box A was marked on Line 6, then mark Box A on this line and go to Line 8. **IF** Box B was marked on Line 6, then mark Box D (under Evaluation) UNLESS RP has told you to mark Box B or C and go to Line 8. **IF** Box C was marked on Line 6, then mark Box D (Under Evaluation) UNLESS RP has told you to mark Box B or C and go to Line 8.	Editorial: Bold and underline action word **IF** & correct indentations
9.	Enclosure 4.1 Page 2 of 3	**Line 9** **Line 10**	**Line 9** **Line 10**	Editorial: correct indentations
10.	Enclosure 4.1 Page 3 of 3	**Line 11** **Line 12**	**Line 11** **Line 12**	Editorial: correct indentations
11.	Enclosure 4.1 Page 3 of 3 Note 3	Lines 14, 15, & 16 - These lines are **NOT** required to be completed for an initial notification. DO **NOT** add or change information on the form after it has been approved by the Emergency Coordinator.	Lines 14, 15, & 16 are **NOT** required to be completed for an initial notification. DO **NOT** add or change information on the form after it has been approved by the Emergency Coordinator.	Editorial: removed "these lines" and underline NOT
12.	Enclosure 4.1.B Title		NOTE: same enclosure as 4.1.A but title is Nuclear Power Plant Emergency Notification Form Hostile Action Based Event GENERAL EMERGENCY	Addition of a new ENF to address Hostile Action Based Events per NUREG-0654, Supp 3, "Guidance for Protective Action Strategies" for compliance with 10CFR50, App E, Section IV.3
13.	Enclosure 4.2 Page 1 of 4	**Line 1** **Line 2** **Line 4**	**Line 1** **Line 2** **Line 4**	Editorial: correct indentations

#	Page /Section	Current	Proposed Change	Reason
14.	Enclosure 4.2 Page 1 of 4	Line 5... If a Keowee Hydro Dam/Dike Condition "A" exists: • Mark Box B and write "Move residents living downstream of the Keowee Hydro dams to higher ground. • AND mark Box E and write "Prohibit traffic flow across bridges identified on your inundation maps until the danger has passed."	Line 5... If a Keowee Hydro Dam/Dike Condition "A" exists: • Mark Box B and write "Move residents living downstream of the Keowee Hydro dams to higher ground. • AND mark Box E and write "Prohibit traffic flow across bridges identified on your inundation maps until the danger has passed."	Editorial: remove italics, not acceptable form of emphasis in procedures writers guide
15.	Enclosure 4.2 Page 2 of 4	**Line 6** **Line 7** **Line 10**	**Line 6** **Line 7** **Line 10**	Editorial: correct indentations
16.	Enclosure 4.2 Page 3 of 4	**Line 11** **Line 12** **Line 13**	**Line 11** **Line 12** **Line 13**	Editorial: correct indentations
17.	Enclosure 4.2 Page 4 of 4 Note	Lines 14, 15, & 16 - These lines are NOT required to be completed for an initial notification. DO NOT add or change information on the form after it has been approved by the Emergency Coordinator.	Lines 14, 15, & 16 are NOT required to be completed for an initial notification. DO NOT add or change information on the form after it has been approved by the Emergency Coordinator.	Editorial: removed "these lines" and underline NOT
18.	Enclosure 4.3 Page 1 of 3	**Line 2** **Line 4**	**Line 2** **Line 4**	Editorial: correct indentations
19.	Enclosure 4.3 Page 2 of 3	**Line 6** **Line 9** **Line 10**	**Line 6** **Line 9** **Line 10**	Editorial: correct indentations
20.	Enclosure 4.3 Page 3 of 3	**Line 11** **Line 12** **Line 13**	**Line 11** **Line 12** **Line 13**	Editorial: correct indentations
21.	Enclosure 4.4 Page 1 of 3	**Line 1** **Line 2** **Line 4**	**Line 1** **Line 2** **Line 4**	Editorial: correct indentations
22.	Enclosure 4.4 Page 2 of 3	**Line 6** **Line 7** **Line 9** **Line 10**	**Line 6** **Line 7** **Line 9** **Line 10**	Editorial: correct indentations
23.	Enclosure 4.4 Page 3 of 3	**Line 11** **Line 12** **Line 13**	**Line 11** **Line 12** **Line 13**	Editorial: correct indentations
24.	Enclosure 4.5 Page 1 of 3	Line 5... If a Keowee Hydro Dam/Dike Condition "A" exists: • Mark Box B and write "Move residents living downstream of the Keowee Hydro dams to higher ground. • AND mark Box E and write "Prohibit traffic flow across bridges identified on your inundation maps until the danger has passed."	Line 5...If a Keowee Hydro Dam/Dike Condition "A" exists: • Mark Box B and write "Move residents living downstream of the Keowee Hydro dams to higher ground. • AND mark Box E and write "Prohibit traffic flow across bridges identified on your inundation maps until the danger has passed."	Editorial: remove italics, not acceptable form of emphasis in procedures writers guide
25.	Enclosure 4.6 Page 1 of 1	**Line 3** **Line 10**	**Line 3** **Line 10**	Editorial: correct indentations

APPENDIX C. APPLICABILITY DETERMINATION (Rev. 10)

PART I – ACTIVITY DESCRIPTION

DUKE ENERGY CAROLINAS, LLC SITE			UNIT(S)		
☒ Oconee	☐ McGuire	☐ Catawba	☒ Unit 1	☒ Unit 2	☒ Unit 3

ACTIVITY TITLE/DOCUMENT/REVISION: **RP/0/A/1000/015A, Offsite Communications from the Control Room, Rev 003**

ONS-2014-05918

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?	☒ NO	☐ YES	If YES, process as a license amendment per NSD 227.
2.	Quality Assurance Topical?	☒ NO	☐ YES	If YES, seek assistance from Independent Nuclear Oversight.
3.	Security Plans? (See Appendix H)	☒ NO	☐ YES	If YES, process per the Nuclear Security Manual.
4.	Emergency Plan?	☐ NO	☒ YES	If YES, process per the Emergency Planning Functional Area Manual.
5.	Inservice Testing Program Plan?	☒ NO	☐ YES	If YES, process per site IST Program for ASME code compliance and related facility changes.
6.	Inservice Inspection Program Plan?	☒ NO	☐ 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?	☒ NO	☐ YES	If YES, evaluate activity in accordance with NSD 320.
	7a -Utilize Appendix E to address Fire Protection Program Plan Impact.		☒	Check to confirm use of Appendix E Screening Questions.
8.	Regulatory Commitments?	☒ NO	☐ YES	If YES, process per NSD 214.
9.	Code of Federal Regulations?	☒ NO	☐ YES	If YES, contact the Regulatory Affairs group.
10.	Programs and manuals listed in the Administrative Section of the TS?	☒ NO	☐ YES	If YES, contact the Regulatory Affairs group.

[Type text]

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
17.	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. IF YES, process per NSD 220.	☒ NO	☐ YES

PART V – SIGNOFF

(Print Name) Donald A. Cleaver (Sign) [signature] DATE 6-7-14

Applicability Determination Preparer

Form 703-2. Procedure Change Process Record
(R08-10)

Duke Energy

PROCEDURE CHANGE PROCESS RECORD

(1) ID No. RP/0/A/1000/015A

Revision No. 003 Change No.
Permanent/Restricted to
_____

(2) Station: OCONEE NUCLEAR STATION

(3) Procedure Title: Offsite Communications from the Control Room

(4) Section(s) of Procedure Affected: Pages 2-3, Enclosures 4.1, 4.2, & 4.3

(5) Requires NSD 228 Applicability Determination?

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

☐ No (Procedure change with minor changes)

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

See attached change matrix.
Minor editorial changes. (indentation corrections)
Addition of an ENF form for compliance with 10CFR50, App E, Section IV.3, Protective Action Recommendations (PARs) guidance as provided in NUREG-0654, Supplement 3, "Guidance for Protective Action Strategies". (Hostile Action Based Event)

(7) Reason for Change:
compliance with 10CFR50, App E, Section IV.3 & clarity of procedure

(8) Prepared By* Natalie Harness (Signature) [signature] Date 11/24/2014

(9) Reviewed By* [signature] (QR)(KI) Date 12-7-14

Cross-Disciplinary Review By* _____ (QR)(KI) NA [signature] Date 12-7-14

Reactivity Mgmt. Review By* _____ (QR) NA [signature] Date 12-7-14

Mgmt. Involvement Review By* _____ (Ops. Supt.) NA [signature] Date 12-7-14

(10) Additional Reviews

Reviewed By* _____ Date _____

Reviewed By* _____ Date _____

(11) Approved By* Patrick M Stokes [signature] Date 12/10/14

* *Printed Name and Signature*

§50.54(q) Screening Evaluation Form

Activity Description and References: RP/0/A/1000/015A, Offsite Communications from the Control Room, Rev 003 — BLOCK 1

See attached change matrix.
Minor editorial changes. (indentation corrections, etc...)
Addition of an ENF form for compliance with 10CFR50, App E, Section IV.3, Protective Action Recommendations (PARs) guidance as provided in NUREG-0654, Supplement 3, "Guidance for Protective Action Strategies". (Hostile Action Based Event)

Activity Scope: — BLOCK 2

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

Change Type: — BLOCK 3

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

Change Type: — BLOCK 4

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

Planning Standard Impact Determination: — BLOCK 5

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

***Risk Significant Planning Standards**

☐ The proposed activity does not impact a Planning Standard

Commitment Impact Determination: — BLOCK 6

☐ The activity does involve a site specific EP commitment
☒ The activity does not involve a site specific EP commitment

Results: — BLOCK 7

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

Preparer Name:	Preparer Signature	Date:
Natalie Harness	Natalie Harness	11/24/14
Reviewer Name:	**Reviewer Signature**	**Date:**
Don Crowl	Don Crowl	12-2-14

§50.54(q) Effectiveness Evaluation Form

Activity Description and References: RP/0/A/1000/015A, Offsite Communications from the Control Room, Rev 003

BLOCK 1

See attached change matrix.
Minor editorial changes. (indentation corrections, etc...)
Addition of an ENF form for compliance with 10CFR50, App E, Section IV.3, Protective Action Recommendations (PARs) guidance as provided in NUREG-0654, Supplement 3, "Guidance for Protective Action Strategies". (Hostile Action Based Event)

Activity Type:

BLOCK 2

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

Impact and Licensing Basis Determination: BLOCK 3

Licensing Basis:

- **10CFR50.47 (b)(5):** Procedures have been established for notification, by the licensee, of State and local response organizations and for notification of emergency personnel by all organizations; the content of initial and follow-up 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.
- **10CFR50.47 (b)(10):** A range of protective actions has been developed for the plume exposure pathway EPZ for emergency workers and the public. In developing this range of actions, consideration has been given to evacuation, sheltering, and, as a supplement to these, the prophylactic use of potassium iodide (KI), as appropriate. Evacuation time estimates have been developed by applicants and licensees. Licensees shall update the evacuation time estimates on a periodic basis. Guidelines for the choice of protective actions during an emergency, consistent with Federal guidance, are developed and in place, and protective actions for the ingestion exposure pathway EPZ appropriate to the locale have been developed.
- **10CFR50.47 (b)(16):** Responsibilities for plan development and review and for distribution of emergency plans are established, and planners are properly trained.
- **10CFR50 Appendix E, D. Notification Procedures:**
  1. Administrative and physical means for notifying local, State, and Federal officials and agencies and agreements reached with these officials and agencies for the prompt notification of the public and for public evacuation or other protective measures, should they become necessary, shall be described. This description shall include identification of the appropriate officials, by title and agency, of the State and local government agencies within the EPZs.
  2. Provisions shall be described for yearly dissemination to the public within the plume exposure pathway EPZ of basic emergency planning information, such as the methods and times required for public notification and the protective actions planned if an accident occurs, general information as to the nature and effects of radiation, and a listing of local broadcast stations that will be used for dissemination of information during an emergency. Signs or other measures shall also be used to disseminate to any transient population within the plume exposure pathway EPZ appropriate information that would be helpful if an accident occurs.
  3. A licensee shall have the capability to notify responsible State and local governmental agencies within 15 minutes after declaring an emergency. The licensee shall demonstrate that the appropriate governmental authorities have the capability to make a public alerting and notification decision promptly on being informed by the licensee of an emergency condition. Prior to initial operation greater than 5 percent of rated thermal power of the first reactor at a site, each nuclear power reactor licensee shall demonstrate that administrative and physical means have been established for alerting and providing prompt instructions to the public within the plume exposure pathway EPZ. The design objective of the prompt public alert and notification system shall be to have the capability to essentially complete the initial alerting and initiate notification of the public within the plume exposure pathway EPZ within about 15 minutes. The use of this alerting and notification capability will range from immediate alerting and notification of the public (within 15 minutes of the time that State and local officials are notified that a situation exists requiring urgent action) to the more likely events where there is substantial time available for the appropriate governmental authorities to make a judgment whether or not to activate the public alert and notification system. The alerting and notification capability shall additionally include administrative and physical means for a backup method of public alerting and notification capable of being used in the event the primary method of alerting and notification is unavailable during an emergency to alert or notify all or portions of the plume exposure pathway EPZ population. The backup method shall have the capability to alert and notify the public within the plume exposure pathway EPZ, but does not need to meet the 15-minute design objective for the primary prompt public alert and notification system. When there is a decision to activate the alert and notification system, the appropriate governmental authorities will determine whether to activate the entire alert and notification system simultaneously or in a graduated or staged manner. The responsibility for activating such a public alert and notification system shall remain with the appropriate governmental authorities.

- **NUREG-0654, Section II. Planning Standards and Evaluation Criteria,**
  - **E. Notification Methods and Procedures,** Procedures have been established for notification, by the licensee of State and local response organizations and for notification of emergency personnel by all response organizations; the content of initial and follow-up 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.

    J. Protective Response, A range of protective actions have been developed for the plume exposure pathway EPZ for emergency workers and the public. Guidelines for the choice of protective actions during an emergency, consistent with Federal guidance, are developed and in place, and protective actions for the ingestion exposure pathway EPZ appropriate to the locale have been developed.

    P. Responsibility for the Planning Effort: Development, Periodic Review and Distribution of the Emergency Plans, Responsibilities for plan development and review and for distribution of emergency plans are established, and planners are properly trained.

ONS Emergency Plan

- **ONS E Plan Section E.3 & E.4, Initial and Follow-up Message Formats**, A single message format has been established that will be used by the Oconee Nuclear Site to properly notify Oconee and Pickens Counties and the South Carolina Emergency Management Division of an emergency situation at the facility. Notification and authentication procedures are in place for all designated agencies.
- **ONS E Plan Section J7, Protective Actions Recommendations,** The Emergency Coordinator (Operations Shift Manager or Station Manager) or the EOF Director (depending on the facility activation) will be responsible for contacting the State and/or local governments to give prompt notification for implementing protective measures within the plume exposure pathway, and beyond it if necessary. Procedure RP/0/A/1000/024, "Protective Action Recommendations" and SR/0/A/2000/003, "Activation of the Emergency Operations Facility" has been written to provide specific guidance for issuing protective action recommendations under various plant conditions to the Emergency Coordinator in the TSC and the EOF Director in the EOF Figure (J-1) respectively. The decision to use sheltering as an alternative to evacuation for impediments and special populations is one that will be made by offsite officials. If dose projections show that PAGs have been exceeded at 10 miles, the dose assessment code and in-field measurements, when available, shall be used to calculate doses at various distances down wind to determine how far from the site PAG levels are exceeded. The Radiological Assessment Manager shall forward the results to the EOF Director who will communicate this information to the offsite authorities.

  Figure J-1A (Protective Action Guides) is adopted from EPA 400 and guidance in state plans on use of KI and considers protective action based on projected avoided dose.

  Per Appendix 2, initial protective actions are predetermined for Control Room use for general emergency conditions. Meteorological conditions at Oconee require a complex method for determining appropriate sectors to evacuate. The Control Room will evacuate out to five miles and shelter out to ten miles which will simplify the process for determining the appropriate sectors to evacuate and to shelter.
- **ONS E Plan Section P, Responsibility for the Planning Effort: Development, Periodic Review and Distribution of the Emergency Plans**, P.7, Implementing Procedures Written procedures will be established, implemented and maintained covering the activities associated with emergency plan implementation. Each procedure and changes thereto, shall be approved by the responsible manager prior to implementation. Implementing procedures are indexed and cross referenced to the section applicable in NUREG 0654. (Figure P-1)

Compliance Evaluation and Conclusion: **BLOCK 4**

These functions continue to be provide timeliness as the Emergency Notification Form (ENF) must be transmitted within 15 minutes to state/local agencies. There has been no change in the timing (15 minute requirement) since the proposed revision continues to ensure that the Offsite Communications from the Control Room to support the emergency plan is provided and maintained. The Emergency Notification Form addition to the procedure, 4.1.b is an addition to the current ENF forms for compliance with 10CFR50, App E, Section IV.3, Protective Action Recommendations (PARs) guidance as provided in NUREG-0654, Supplement 3, "Guidance for Protective Action Strategies". (Hostile Action Based Event). The ONS E plan was not impacted by the changes proposed in the revision. Therefore all regulations and commitments continue to be met.

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

Reduction in Effectiveness (RIE) Evaluation and Conclusion: **BLOCK 5**

Evaluation:
As can be seen by the above, compliance with regulations is assured.

The functions of 10CFR50.47b(5) per RG 1.219 are:
Three emergency planning functions have been defined for this planning standard of which one of the three is impacted:
(1) Procedures for notification of State and local governmental agencies are capable of alerting them of the declared emergency within 15 minutes after declaration of an emergency and providing follow-up notifications.
This function was maintained by adding the ENF enclosure for Hostile Action Based (HAB) events.

The functions of 10CFR50.47b(10) per RG 1.219 are:
Three emergency planning functions have been defined for this planning standard of which one of the three is impacted:
(1) A range of public PARs is available for implementation during emergencies. RG 1.219, Page 27
This function was maintained by adding the form for HAB which includes "Shelter" only recommendations based on discussions with Oconee and Pickens Counties following the graded HAB exercise in 2014.

The functions of 10CFR50.47b(16) per RG 1.219 are:
Two emergency planning functions have been defined for this planning standard of which one of the two is impacted::
(1) Responsibility for emergency plan development and review is established.
This function was maintained by the addition of the HAB enclosure that ensures the public shelters in the event of a hostile action based event. Therefore the proposed changes continue to ensure compliance with the regulations and the ONS E Plan.

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

- #1 Enhancement - Added the following note to ensure evaluation for a 10CFR50.54q effectiveness review.
- #2 & 11 Addition: This change is being made to adopt Protective Action Recommendations (PARs) guidance as provided in NUREG-0654, Supp 3, "Guidance for Protective Action Strategies" for compliance with 10CFR50, App E, Section IV.3.
- #3, 5, 8, 9, 12, 14, 15, 17-22, & 24 - Editorial: correct indentation
- #4 Editorial: remove spacing
- #6, 13, & 23 - Editorial: remove italics
- #7 Editorial: BOLD & underline introductory action words.
- #10 & 16 Editorial: underline NOT

Conclusion:
The change in RP/0/A/1000/015A associated with the additional ENF to adopt Protective Action Recommendations (PARs) guidance as provided in NUREG-0654, Supp 3, "Guidance for Protective Action Strategies" for compliance with 10CFR50, App E, Section IV.3. does not reduce the effectiveness.

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

Effectiveness Evaluation Results BLOCK 6

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

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

Preparer Name: Natalie Harness	Preparer Signature Natalie Harness	Date: 11/24/14
Reviewer Name: Don Crowl	Reviewer Signature	Date: 12-7-14
Approver Name: Pat Street	Approver Signature	Date: 12/10/14

Revision 12

Duke Energy Oconee Nuclear Station **Offsite Communications From The Technical Support Center**	Procedure No. **RP/0/A/1000/015 B**
	Revision No. **002**
Reference Use	Electronic Reference No. **OP009A67**

PERFORMANCE

PDF Format

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

Compared with Control Copy* _____ Date _____

Compared with Control Copy* _____ Date _____

Compared with Control Copy* _____ Date _____

Date(s) Performed	Work Order/Task Number (WO#)

COMPLETION

- ☐ Yes ☐ NA Checklists 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

Procedure Completion Approved* Date
**Printed Name and Signature*

Remarks (*attach additional pages, if necessary*)

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

Printed Date: *12/09/2014*

Enclosure No.: *FULL*

Revision No.: *002*

Procedure No.: *RP/0/A/1000/015 B*

Offsite Communications From The Technical Support Center

NOTE:
- This procedure is an implementing Procedure to the Oconee Nuclear Site Emergency Plan and must be:
  - ◊ Review in accordance with 10CFR50.54(q) by Emergency Preparedness prior to approval.
  - ◊ Forwarded to Emergency Preparedness within seven (7) working days approval.
- For an outside line dial "9" for long distance dial "1".

1. Symptoms

1.1 Events are "in progress" or "have occurred" which require activation of the Oconee Nuclear Site Emergency Plan and notification of offsite agencies.

NOTE: Actions within the body of this procedure are **NOT** required to be performed in sequence.

2. Immediate Actions

☐ 2.1 Sign in on board and wear position badge.

☐ 2.2 Obtain the following items from the Emergency Procedures Cabinet or Position Specific Notebook.

_____ Yellow folder containing the Emergency Telephone Directory, Authentication Code List, Emergency Notification Forms

_____ Emergency Action Level Guideline Manual

_____ RP/1000/009 (Procedure for Site Assembly Accountability)

_____ RP/1000/010 (Procedure for Emergency Evacuation/Relocation of Site Personnel)

_____ RP/1000/017 (Spill Response)

☐ 2.3 Acquire and maintain the Emergency Drill/Event Time Log.

☐ 2.4 Contact the Control Room Offsite Communicator

- Assist as needed with completing the next message to offsite agencies

- Obtain, review, and distribute the last completed Emergency Notification Form to:

_____ TSC Emergency Coordinator

_____ Assistant Emergency Coordinator

_____ Emergency Planner

_____ Operations Superintendent

_____ Engineering Manager

_____ TSC/OSC Liaison Assistant

_____ NRC Communicator

_____ NRC Inspector(s)

- Prepare and receive turnover by completing Enclosure 4.10 (Turnover Checklist)

☐ 2.5 Report to the TSC Emergency Coordinator that turnover has been completed.

NOTE:	Enclosure 4.13 (WebEOC Notification Form Quick Reference) contains instructions for using WebEOC in filling out the Emergency Notification Form (ENF), including offsite agencies notification and documentation.

☐ 2.6 For WebEOC use:

☐ 2.6.1 Ensure your computer profile is set for 'print background color and images'. To achieve this go to Internet Explorer, tools, internet options, click on advanced, scroll down and insert check in box beside 'print background color and images' click apply. {1}

☐ 2.6.2 Ensure your computer profile for page set-up is .25 for margins. To achieve this go to Internet Explorer, file, page set up and change all the .75's to .25. {1}

NOTE: **INITIAL/UPGRADE** notifications MUST be communicated to Offsite Agencies within **fifteen (15) minutes** of the official emergency declaration time on Line 10 of the Emergency Notification Form.

IF an upgrade in classification occurs prior to or while transmitting the initial message.

- Make the notification for the lesser emergency classification within 15 minutes.
- Inform the agencies that an upgrade in classification will be coming.
- Begin a new initial message for the higher classification and complete within 15 minutes of its declaration.

PROTECTIVE ACTION RECOMMENDATION (PAR) changes must be communicated to Offsite Agencies within **fifteen (15) minutes** from the time they are determined by the TSC Emergency Coordinator/Dose Assessor.

FOLLOW-UP FOR AN UNUSUAL EVENT - A Follow-Up notification is **NOT** required for an Unusual Event unless requested.

FOLLOW-UP notifications are required at least every **sixty (60) minutes** from the notification time on Line 2 for an **Alert, Site Area Emergency**, or **General Emergency** Classification. Significant changes in plant conditions (evacuation/relocation of site personnel; fires onsite; MERT activation and/or injured personnel transported offsite; chemical spills; explosions; Condition "A" or "B" for Keowee Hydro Project Dams/Dikes or any event that would cause or require offsite agency response) should be communicated as they occur. This frequency **may be** changed at the request of offsite agencies.

If a **FOLLOW-UP** is due and an upgrade to a higher classification is declared there is no need to complete the follow-up ENF. In this case the offsite agencies must be notified that the pending follow-up is being superseded by an upgrade to a higher classification and information will be provided.

FOLLOW-UP Notifications - Do not delay sending a Follow-Up notification if all information is not available. Use the same information from the previous message sheet.

Do **NOT** use acronyms. Do not add or change information on the form after it has been approved by the TSC Emergency Coordinator.

☐ 2.7 Review plant conditions with the TSC Emergency Coordinator and complete an Emergency Notification Form (ENF) as applicable.

NOTE: The first message sheet in any classification is an INITIAL notification. The very first message for any drill/emergency will be numbered one (1).

ALL other messages will be sequentially numbered until the event is terminated.

VERIFY correct Enclosure below is selected for the applicable classification.

☐ 2.7.1 If electronically completing a form, use information in Enclosures 4.1 - 4.6 or go to Enclosure 4.13 (WebEOC Notification Form Quick Reference).

☐ 2.7.2 If manually completing a form, go to the next step.

☐ 2.7.3 If a **GENERAL EMERGENCY** initial or upgrade exists, complete Enclosure 4.1. (Guidelines for Completing an Initial Message for a General Emergency Event).

☐ 2.7.4 If a **SITE AREA EMERGENCY** initial or upgrade exists, complete Enclosure 4.2 (Guidelines for Completing an Initial Message for a Site Area Emergency Event).

☐ 2.7.5 If an **ALERT** initial or upgrade exists, complete Enclosure 4.3 (Guidelines for Completing an Initial Message for an Alert Event).

☐ 2.7.6 If an **UNUSUAL EVENT** initial or upgrade exists, complete Enclosure 4.4 (Guidelines for Completing an Initial Message for an Unusual Event).

NOTE: If **changes** in **Protective Action Recommendations** are made, complete an Emergency Notification Form using the guidance in Enclosure 4.5 (Guidelines for Completing a Follow-up Message).

☐ 2.7.7 If a **FOLLOW-UP** notification is required complete Enclosure 4.5 (Guidelines for Completing a Follow-Up Message).

☐ 2.7.8 If a **TERMINATION** notification is required complete Enclosure 4.6 (Guidelines for Completing a Termination Message).

3. Subsequent Actions

☐ 3.1 **IAAT** An emergency classification is being **UPGRADED**, or a **FOLLOW-UP** message is due, or a change in PROTECTIVE ACTION RECOMMENDATIONS (PARs) occurs, or an event is TERMINATED

THEN Go to Immediate Actions, Step 2.7 to complete an Emergency Notification Form.

☐ 3.2 **IAAT** The EOF Offsite Agency Communicator is available, and additional notification is **NOT** immediately required and an upgrade in classification is **NOT** imminent,

THEN Conduct turnover with the EOF Offsite Agency Communicator.

☐ 3.3 Contact the OSC RP Manager Assistant to determine if evacuation/relocation of site personnel is being recommended. Request the OSC to fax the plan to the TSC for review/approval by the Emergency Coordinator. This plan is also available from the DAE.

☐ 3.4 Prepare for turnover with the EOF Offsite Agency Communicator by updating Enclosure 4.10 (Turnover Checklist) with any new or additional information.

☐ 3.5 Using Speed Dial 07, **OR** dialing 704-382-0722, fax completed Enclosure 4.10 (Turnover Checklist) to the EOF and review form with the EOF Offsite Agency Communicator.

☐ 3.6 Report to the TSC Emergency Coordinator that turnover has been completed.

☐ 3.7 Provide the TSC Emergency Coordinator with a status of offsite notifications.

☐ 3.8 Verify site assembly accountability and record information as required by RP/1000/009 (Procedure for Site Assembly).

☐ 3.8.1 Verify OSC Security Liaison has dispatched MERT for missing personnel.

☐ 3.8.2 Report site assembly accountability status to the TSC Emergency Coordinator.

☐ 3.9 Complete applicable sections of RP/1000/010 (Procedure for Evacuation/Relocation of Site Personnel) as requested by the TSC Emergency Coordinator.

NOTE:	Environmental Services will perform procedure guidance in RP/1000/017 but may ask TSC Offsite Communicator to make appropriate notifications to offsite agencies if necessary.

☐ 3.10 Complete notification to off-site agencies per RP/1000/017 (Spill Response) as directed by Environmental Services.

☐ 3.11 Retrieve all FAX copies and distribute to applicable TSC personnel.

☐ 3.12 During back shift and weekends, retrieve the Nuclear Call-out System report. Use Speed Dial 29 to fax report to the OSC and the EOF. Provide the original to the TSC Emergency Coordinator.

☐ 3.13 Keep the EOF updated on changes in plant conditions (fires, spills, injuries, etc.) by contacting the EOF State/County Offsite Communicator.

☐ 3.14 Provide this completed procedure to the TSC Emergency Planner at end of event.

4. Enclosures

4.1 Guidelines for Completing an Initial Message for a General Emergency Event

4.2 Guidelines for Completing an Initial Message for a Site Area Emergency Event

4.3 Guidelines for Completing an Initial Message for an Alert Event

4.4 Guidelines for Completing an Initial Message for an Unusual Event

4.5 Guidelines for Completing a Follow-up Message

4.6 Guidelines for Completing a Termination Message

4.7 Guidelines for Transmitting a Message

4.8 Copy/FAX Operation

4.9 Alternate Method and Sequence to Contact Agencies

4.10 Turnover Checklist

4.11 Response to Offsite Agency Questions

4.12 Acronym Listing

4.13 WebEOC Notification Form Quick Reference

4.14 References

Enclosure 4.1

Guidelines for Completing an INITIAL Message for a GENERAL EMERGENCY EVENT

NOTE:	The initial notification is required to be made within 15 minutes from the official declaration time on Line 10.

☐ Obtain Enclosure 4.1.A (Nuclear Power Plant Emergency Notification Form) for a GENERAL EMERGENCY EVENT and complete the form as follows or use Enclosure 4.13 (WebEOC Notification Form Quick Reference):

☐ **Line 1** Mark "DRILL" or "ACTUAL EVENT".

Enter Message Number (very first message is #1 and then sequential numbering required until event terminated).

☐ **Line 2** Mark/verify "initial" notification. Time, date, and authentication completed after line 17.

☐ **Line 3** Verify site is marked as Oconee and confirmation phone number is 864-882-7076.

☐ **Line 4** Verify with Operations Support which EAL# to use and enter the number on the form.

Copy exact EAL Description from the EAL manual.

_____ 1. Obtain information from the TSC Dose Assessor to complete lines 5, 6, 7, and line 9. Line 9 does not have to be completed for an initial notification.

_____ 2. Contact the OSC Chemistry Manager, (ext. 3495) to verify the status of any liquid releases.

_____ 3. If a liquid release is occurring then complete lines 6 and 7 as directed by the OSC Chemistry Manager.

☐ **Line 5** Mark applicable sectors by each county as directed by the Dose Assessor and the TSC/EC.

If KI has been recommended, mark Box D.

If a Keowee Hydro Dam/Dike Condition "A" exists:

- Mark Box B and write "Move residents living downstream of the Keowee Hydro dams to higher ground."
- AND mark Box E and write "Prohibit traffic flow across bridges identified on your inundation maps until the danger has passed."

☐ **Line 6** Mark Box A, B, or C as directed by the TSC Dose Assessor.

Guidelines for Completing an INITIAL Message for a GENERAL EMERGENCY EVENT

☐ **Line 7** Mark Box A, B, C, or D as directed by the TSC Dose Assessor.

☐ **Line 8** Mark Box A, B, or C as directed by TSC/EC.

☐ **Line 9** Enter the meteorological data if available from the TSC Dose Assessor.

☐ **Line 10** Enter Time in military units and Date the Emergency Coordinator officially declares a GENERAL EMERGENCY EVENT.

> **NOTE:** The following list is used to help determine if an event includes only one unit or all units. The list may not be all inclusive.
> - Security event
> - Seismic event
> - Tornado on site
> - Hurricane force winds on site
> - SSF
> - Fire affecting shared safety related equipment

☐ **Line 11** Mark or select <u>All</u> if event affects the emergency classification on more than one unit.

Mark or select one (1) unit if event affects one unit or one (1) unit has a higher emergency classification.

> **NOTE:** Unaffected unit status is not required for initial notification. Unit status is required for all three units for follow-up notifications.

☐ **Line 12** Mark affected unit(s) (reference line 11) and enter percent power for each unit affected.

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

☐ **Line 13** Add any remarks as requested by the Emergency Coordinator. If there are no remarks write "None".

Enclosure 4.1

Guidelines for Completing an INITIAL Message for a GENERAL EMERGENCY EVENT

NOTE:	Lines 14, 15, & 16 - These lines are **NOT** required to be completed for an initial notification. DO **NOT** add or change information on the form after it has been approved by the TSC Emergency Coordinator.

☐ **Line 17** Obtain the Emergency Coordinator signature/time/date of approval.

NOTE:	The "Received By, Time and Date" on Line 17 is completed by the Offsite Agency.

☐ **Line 17** Notified By: Print your name.

☐ To manually transmit this message, go to Enclosure 4.7 (Guidelines for Transmitting A Message).

Nuclear Power Plant Emergency Notification Form

RP/0/A/1000/015 B

GENERAL EMERGENCY

Enclosure 4.1.A

1. [A] DRILL [B] ACTUAL EVENT MESSAGE # _____
2. [A] INITIAL [B] FOLLOW-UP NOTIFICATION: TIME_____ DATE____/____/____ AUTHENTICATION # _____
3. SITE: __**Oconee Nuclear Site** Confirmation Phone # (864)_882-7076_____

4. **EMERGENCY CLASSIFICATION:** [A] UNUSUAL EVENT [B] ALERT [C] SITE AREA EMERGENCY [D] GENERAL EMERGENCY

BASED ON EAL #_____ EAL DESCRIPTION: _____

5. **PROTECTIVE ACTION RECOMMENDATIONS:** [A] NONE

[B] EVACUATE PICKENS CO.: A0, A1, B1, C1, A2, B2, C2 OCONEE CO.: A0, D1, E1, F1, D2, E2, F2

[C] SHELTER PICKENS CO.: A0, A1, B1, C1, A2, B2, C2 OCONEE CO.: A0, D1, E1, F1, D2, E2, F2

[D] CONSIDER THE USE OF KI (POTASSIUM IODIDE) IN ACCORDANCE WITH STATE PLANS AND POLICY.

[E] OTHER_____

6. **EMERGENCY RELEASE:** [A] None [B] Is Occurring [C] Has Occurred

7. RELEASE SIGNIFICANCE: [A] Not applicable [B] Within normal operating limits [C] Above normal operating limits [D] Under evaluation

8. EVENT PROGNOSIS: [A] Improving [B] Stable [C] Degrading

9. METEOROLOGICAL DATA: Wind Direction* from _____ degrees Wind Speed* _____mph

(*Not Required for Initial Notifications) Precipitation* _____ Stability Class* [A] [B] [C] [D] [E] [F] [G]

10. [A] DECLARATION [B] TERMINATION Time _____ Date ____/____/____

11. AFFECTED UNIT(S): [1] [2] [3] [All]

12. UNIT STATUS:

(Unaffected Unit(s) Status Not Required for Initial Notifications)

[A] U1 ____% Power Shutdown at Time _____ Date ___/____/____

[B] U2 ____% Power Shutdown at Time _____ Date ___/____/____

[C] U3 ____% Power Shutdown at Time _____ Date ___/____/____

13. REMARKS: _____

FOLLOW-UP INFORMATION (Lines 14 through 16 Not Required for Initial Notifications)

EMERGENCY RELEASE DATA. NOT REQUIRED IF LINE 6 A IS SELECTED.

14. RELEASE CHARACTERIZATION: TYPE: [A] Elevated [B] Mixed [C] Ground UNITS: [A] Ci [B] Ci/sec [C] µCi/sec

MAGNITUDE: Noble Gases:_____ Iodines:_____ Particulates:_____ Other: _____

FORM: [A] Airborne Start Time _____ Date ___/____/____Stop Time _____ Date ___/____/____

[B] Liquid Start Time _____ Date ___/____/____Stop Time _____ Date ___/____/____

15. PROJECTION PARAMETERS: Projection period: _____Hours Estimated Release Duration _____Hours

Projection performed: Time _____ Date ___/____/____

16. PROJECTED DOSE:

DISTANCE	TEDE (mrem)	Adult Thyroid CDE (mrem)
Site boundary	_____	_____
2 Miles	_____	_____
5 Miles	_____	_____
10 Miles	_____	_____

17. APPROVED BY: _____ Title **Emergency Coordinator** Time _____ Date___/____/____

NOTIFIED BY:_____ RECEIVED BY: _____ Time _____ Date ___/____/____

Enclosure 4.2

Guidelines for Completing an INITIAL Message for a SITE AREA EMERGENCY EVENT

NOTE:
- The initial notification is required to be made within 15 minutes from the official declaration time on Line 10.
- Pre-printed Emergency Notification forms containing specific EAL number and EAL description may be used in lieu of Enclosure 4.2.A or WebEOC.

☐ Obtain Enclosure 4.2.A (Nuclear Power Plant Emergency Notification Form) for a SITE AREA EMERGENCY EVENT and complete the form as follows or use Enclosure 4.13 (WebEOC Notification Form Quick Reference):

☐ **Line 1** Mark "DRILL" or "ACTUAL EVENT".

Enter Message Number (very first message is #1 and then sequential numbering required until event terminated).

☐ **Line 2** Mark/verify "initial" notification. Time, date, and authentication completed after line 17.

☐ **Line 3** Verify site is marked as Oconee and confirmation phone number is 864-882-7076.

☐ **Line 4** Verify with Operations Support which EAL# to use and enter the number on the form.

Copy exact EAL Description from the EAL manual.

_____ 1. Obtain information from the TSC Dose Assessor to complete lines 5, 6, 7, and line 9. Line 9 does not have to be completed for an initial notification.

_____ 2. Contact the OSC Chemistry Manager (ext. 3495) to verify the status of any liquid releases.

_____ 3. If a liquid release is occurring then complete lines 6 and 7 as directed by the OSC Chemistry Manager.

☐ **Line 5** If a Keowee Hydro Dam/Dike Condition "A" **DOES NOT** exist, then mark Box A NONE.

If a Keowee Hydro Dam/Dike Condition "A" exists:

- Mark Box B and write "Move residents living downstream of the Keowee Hydro dams to higher ground."
- AND mark Box E and write "Prohibit traffic flow across bridges identified on your inundation maps until the danger has passed."

☐ **Line 6** Mark Box A, B, or C as directed by the TSC Dose Assessor.

☐ **Line 7** Mark Box A, B, C, or D as directed by the TSC Dose Assessor.

☐ **Line 8** Mark Box A, B, or C as directed by TSC/EC.

Guidelines for Completing an INITIAL Message for a SITE AREA EMERGENCY EVENT

☐ **Line 9** Enter the meteorological data if available from the TSC Dose Assessor.

☐ **Line 10** Enter Time in military units and Date the Emergency Coordinator officially declares a SITE AREA EMERGENCY EVENT.

> **NOTE:** The following list is used to help determine if an event includes only one unit or all units. The list may not be all inclusive.
>
> - Security event
> - Seismic event
> - Tornado on site
> - Hurricane force winds on site
> - SSF
> - Fire affecting shared safety related equipment

☐ **Line 11** Mark or select <u>All</u> if event affects the emergency classification on more than one unit.

Mark or select one (1) unit if event affects one unit or one (1) unit has a higher emergency classification

> **NOTE:** Unaffected unit status is not required for initial notification. Unit status is required for all three units for follow-up notifications.

☐ **Line 12** Mark affected unit(s) (reference line 11) and enter percent power for each unit affected.

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

☐ **Line 13** Add any remarks as requested by the Emergency Coordinator. If there are no remarks write "None".

If upgrade in classification occurs prior to transmitting the message then include "upgrade to follow" on this line. {2}

Enclosure 4.2

Guidelines for Completing an INITIAL Message for a SITE AREA EMERGENCY EVENT

NOTE:	Lines 14, 15, & 16 - These lines are **NOT** required to be completed for an initial notification. DO **NOT** add or change information on the form after it has been approved by the TSC Emergency Coordinator.

☐ **Line 17** Obtain the Emergency Coordinator signature/time/date of approval.

NOTE:	The "Received By, Time and Date" on Line 17 is completed by the Offsite Agency.

☐ **Line 17** Notified By: Print your name.

☐ To manually transmit this message, go to Enclosure 4.7 (Guidelines for Transmitting A Message).

Nuclear Power Plant Emergency Notification Form

RP/0/A/1000/015 B

SITE AREA EMERGENCY

Enclosure 4.2.A

1. [A] DRILL [B] ACTUAL EVENT MESSAGE # _____
2. [A] INITIAL [B] FOLLOW-UP NOTIFICATION: TIME_____ DATE____/____/____ AUTHENTICATION # _____
3. SITE: **Oconee Nuclear Site** Confirmation Phone # (864) 882-7076

4. **EMERGENCY CLASSIFICATION:** [A] UNUSUAL EVENT [B] ALERT [C] SITE AREA EMERGENCY [D] GENERAL EMERGENCY

BASED ON EAL #_____ EAL DESCRIPTION: _____

5. **PROTECTIVE ACTION RECOMMENDATIONS:** [A] NONE

[B] EVACUATE

[C] SHELTER

[D] CONSIDER THE USE OF KI (POTASSIUM IODIDE) IN ACCORDANCE WITH STATE PLANS AND POLICY.

[E] OTHER_____

6. **EMERGENCY RELEASE:** [A] None [B] Is Occurring [C] Has Occurred

7. RELEASE SIGNIFICANCE: [A] Not applicable [B] Within normal operating limits [C] Above normal operating limits [D] Under evaluation

8. EVENT PROGNOSIS: [A] Improving [B] Stable [C] Degrading

9. METEOROLOGICAL DATA: Wind Direction* from _____ degrees Wind Speed* _____mph

(*Not Required for Initial Notifications) Precipitation* _____ Stability Class* [A] [B] [C] [D] [E] [F] [G]

10. [A] DECLARATION [B] TERMINATION Time _____ Date ____/____/____

11. AFFECTED UNIT(S): [1] [2] [3] [All]

12. UNIT STATUS:

(Unaffected Unit(s) Status Not Required for Initial Notifications)

[A] U1 _____% Power Shutdown at Time _____ Date ___/____/___

[B] U2 _____% Power Shutdown at Time _____ Date ___/____/___

[C] U3 _____% Power Shutdown at Time _____ Date ___/____/___

13. REMARKS: _____

FOLLOW-UP INFORMATION (Lines 14 through 16 Not Required for Initial Notifications)

EMERGENCY RELEASE DATA. NOT REQUIRED IF LINE 6 A IS SELECTED.

14. RELEASE CHARACTERIZATION: TYPE: [A] Elevated [B] Mixed [C] Ground UNITS: [A] Ci [B] Ci/sec [C] µCi/sec

MAGNITUDE: Noble Gases:_____ Iodines:_____ Particulates:_____ Other: _____

FORM: [A] Airborne Start Time _____ Date ___/____/___ Stop Time _____ Date ___/____/___

[B] Liquid Start Time _____ Date ___/____/___ Stop Time _____ Date ___/____/___

15. PROJECTION PARAMETERS: Projection period: _____Hours Estimated Release Duration _____Hours

Projection performed: Time _____ Date ___/____/___

16. PROJECTED DOSE:

DISTANCE	TEDE (mrem)	Adult Thyroid CDE (mrem)
Site boundary	_____	_____
2 Miles	_____	_____
5 Miles	_____	_____
10 Miles	_____	_____

17. APPROVED BY: _____ Title **Emergency Coordinator** Time _____ Date___/____/___

NOTIFIED BY:_____ RECEIVED BY: _____ Time _____ Date ___/____/___

Enclosure 4.3

Guidelines for Completing an INITIAL Message for an ALERT EVENT

NOTE:
- The initial notification is required to be made within 15 minutes from the official declaration time on Line 10.
- Pre-printed Emergency Notification forms containing specific EAL number and EAL description may be used in lieu of Enclosure 4.3.A or WebEOC.

☐ Obtain Enclosure 4.3.A (Nuclear Power Plant Emergency Notification Form) for an ALERT EVENT and complete the form as follows or use Enclosure 4.13 (WebEOC Notification Form Quick Reference):

☐ **Line 1** Mark "DRILL" or "ACTUAL EVENT".

Enter Message Number (very first message is #1 and then sequential numbering required until event terminated).

☐ **Line 2** Mark/verify "initial" notification. Time, date, and authentication completed after line 17.

☐ **Line 3** Verify site is marked as Oconee and confirmation phone number is 864-882-7076.

☐ **Line 4** Verify with Operations Support which EAL# to use and enter the number on the form.

Copy exact EAL Description from the EAL manual.

_____ 1. Obtain information from the TSC Dose Assessor to complete lines 5, 6, 7, and line 9. Line 9 does not have to be completed for an initial notification.

_____ 2. Contact the OSC Chemistry Manager (ext. 3495) to verify the status of any liquid releases.

_____ 3. If a liquid release is occurring then complete lines 6 and 7 as directed by the OSC Chemistry Manager.

☐ **Line 5** Verify that Protective Action Recommendation is marked as none.

☐ **Line 6** Mark Box A, B, or C as directed by the TSC Dose Assessor.

☐ **Line 7** Mark Box A, B, C, or D as directed by the TSC Dose Assessor.

☐ **Line 8** Mark Box A, B, or C as directed by TSC/EC.

☐ **Line 9** Enter the meteorological data if available from the TSC Dose Assessor.

Guidelines for Completing an INITIAL Message for an ALERT EVENT

☐ **Line 10** Enter Time in military units and Date the Emergency Coordinator officially declares an ALERT event.

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

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

☐ **Line 11** Mark or select All if event affects the emergency classification on more than one unit.

Mark or select one (1) unit if event affects one unit or one (1) unit has a higher emergency classification.

NOTE: Unaffected unit status is not required for an initial notification. Unit status is required for all three units for follow-up notifications.

☐ **Line 12** Mark affected unit(s) (reference line 11) and enter percent power for each unit affected.

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

☐ **Line 13** Add any remarks as requested by the Emergency Coordinator. If there are no remarks write "None".

If upgrade in classification occurs prior to transmitting the message then include "upgrade to follow" on this line. {2}

NOTE: Lines 14, 15, & 16 - These lines are **NOT** required to be completed for an initial notification.

DO **NOT** add or change information on the form after it has been approved by the TSC Emergency Coordinator.

☐ **Line 17** Obtain the Emergency Coordinator signature/time/date of approval.

NOTE: The "Received By, Time and Date" on Line 17 is completed by the Offsite Agency.

☐ **Line 17** Notified By: Print your name.

☐ To transmit this message, go to Enclosure 4.7 (Guidelines for Transmitting A Message).

Nuclear Power Plant Emergency Notification Form

RP/0/A/1000/015 B

ALERT EVENT

Enclosure 4.3.A

1. [A] DRILL [B] ACTUAL EVENT MESSAGE # _____
2. [A] INITIAL [B] FOLLOW-UP NOTIFICATION: TIME_____ DATE____/____/____ AUTHENTICATION # _____
3. SITE: Oconee Nuclear Site Confirmation Phone # (864) 882-7076

4. **EMERGENCY CLASSIFICATION:** [A] UNUSUAL EVENT [B] ALERT [C] SITE AREA EMERGENCY [D] GENERAL EMERGENCY

BASED ON EAL #_____ EAL DESCRIPTION: _____

5. **PROTECTIVE ACTION RECOMMENDATIONS:** [A] NONE

[B] EVACUATE _____

[C] SHELTER _____

[D] CONSIDER THE USE OF KI (POTASSIUM IODIDE) IN ACCORDANCE WITH STATE PLANS AND POLICY.

[E] OTHER_____

6. **EMERGENCY RELEASE:** [A] None [B] Is Occurring [C] Has Occurred

7. RELEASE SIGNIFICANCE: [A] Not applicable [B] Within normal operating limits [C] Above normal operating limits [D] Under evaluation

8. EVENT PROGNOSIS: [A] Improving [B] Stable [C] Degrading

9. METEOROLOGICAL DATA: Wind Direction* from _____ degrees Wind Speed* _____mph

(*Not Required for Initial Notifications) Precipitation* _____ Stability Class* [A] [B] [C] [D] [E] [F] [G]

10. [A] DECLARATION [B] TERMINATION Time _____ Date ____/____/____

11. AFFECTED UNIT(S): [1] [2] [3] [All]

12. UNIT STATUS:

(Unaffected Unit(s) Status Not Required for Initial Notifications)

[A] U1 ____% Power Shutdown at Time _____ Date ___/____/____

[B] U2 ____% Power Shutdown at Time _____ Date ___/____/____

[C] U3 ____% Power Shutdown at Time _____ Date ___/____/____

13. REMARKS: _____

FOLLOW-UP INFORMATION (Lines 14 through 16 Not Required for Initial Notifications)

EMERGENCY RELEASE DATA. NOT REQUIRED IF LINE 6 A IS SELECTED.

14. RELEASE CHARACTERIZATION: TYPE: [A] Elevated [B] Mixed [C] Ground UNITS: [A] Ci [B] Ci/sec [C] µCi/sec

MAGNITUDE: Noble Gases:_____ Iodines:_____ Particulates:_____ Other: _____

FORM: [A] Airborne Start Time _____ Date ___/____/____Stop Time _____ Date ___/____/____

[B] Liquid Start Time _____ Date ___/____/____Stop Time _____ Date ___/____/____

15. PROJECTION PARAMETERS: Projection period: _____Hours Estimated Release Duration _____Hours

Projection performed: Time _____ Date ___/____/____

16. PROJECTED DOSE:

DISTANCE	TEDE (mrem)	Adult Thyroid CDE (mrem)
Site boundary	_____	_____
2 Miles	_____	_____
5 Miles	_____	_____
10 Miles	_____	_____

17. APPROVED BY: _____ Title **Emergency Coordinator** Time _____ Date___/____/____

NOTIFIED BY:_____ RECEIVED BY: _____ Time _____ Date ___/____/____

Enclosure 4.4

Guidelines for Completing an INITIAL Message for an UNUSUAL EVENT

NOTE: (1) The initial notification is required to be made within 15 minutes from the official declaration time on Line 10.

(2) The Emergency Coordinator can terminate an Unusual Event on the same notification message sheet that an Initial Unusual Event was declared on.

- Pre-printed Emergency Notification forms containing specific EAL number and EAL description may be used in lieu of Enclosure 4.4.A or WebEOC.

☐ Obtain Enclosure 4.4.A (Nuclear Power Plant Emergency Notification Form) for an UNUSUAL EVENT and complete the form as follows or use Enclosure 4.13 (WebEOC Notification Form Quick Reference):

☐ **Line 1** Mark "DRILL" or "ACTUAL EVENT".

Enter Message Number (very first message is #1 and then sequential numbering required until event terminated).

☐ **Line 2** Mark/verify "initial" notification. Time, date, and authentication completed after line 17.

☐ **Line 3** Verify site is marked as Oconee and confirmation phone number is 864-882-7076.

☐ **Line 4** Verify with Operations Support which EAL# to use and enter the number on the form.

Copy exact EAL Description from the EAL manual.

_____ 1. Obtain information from the TSC Dose Assessor to complete lines 5, 6, 7, and line 9. Line 9 does not have to be completed for an initial notification.

_____ 2. Contact the OSC Chemistry Manager (ext. 3495) to verify the status of any liquid releases.

_____ 3. If a liquid release is occurring then complete lines 6 and 7 as directed by the OSC Chemistry Manager.

☐ **Line 5** Verify that Protective Action Recommendation is marked as none.

☐ **Line 6** Mark Box A, B, or C as directed by the TSC Dose Assessor.

☐ **Line 7** Mark Box A, B, C, or D as directed by the TSC Dose Assessor.

☐ **Line 8** Mark Box A, B, or C as directed by TSC/EC.

☐ **Line 9** Enter the meteorological data if available from the TSC Dose Assessor.

☐ **Line 10** Enter Time in military units and Date the Emergency Coordinator officially declares an UNUSUAL EVENT.

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

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

☐ **Line 11** Mark or select All if event affects the emergency classification on more than one unit.

Mark or select one (1) unit if event affects one unit or one (1) unit has a higher emergency classification.

NOTE: Unaffected unit status is not required for initial notification. Unit status is required for all three units for follow-up notifications.

☐ **Line 12** Mark affected unit(s) (reference line 11) and enter percent power for each unit affected.

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

☐ **Line 13** Add any remarks as requested by the Emergency Coordinator. If there are no remarks write "None".

If upgrade in classification occurs prior to transmitting the message then include "upgrade to follow" on this line. {2}

NOTE: Lines 14, 15 & 16 are **NOT** required to be completed for an initial notification.

DO **NOT** add or change information on the form after it has been approved by the TSC Emergency Coordinator.

☐ **Line 17** Obtain the Emergency Coordinator signature/time/date of approval.

NOTE: The "Received By, Time and Date" on Line 17 is completed by the Offsite Agency.

☐ **Line 17** Notified By: Print your name.

☐ To manually transmit this message, go to Enclosure 4.7 (Guidelines for Transmitting A Message).

Nuclear Power Plant Emergency Notification Form

RP/0/A/1000/015 B

UNUSUAL EVENT

Enclosure 4.4.A

1. [A] DRILL [B] ACTUAL EVENT MESSAGE # _____
2. [A] INITIAL [B] FOLLOW-UP NOTIFICATION: TIME_____ DATE____/____/____ AUTHENTICATION # _____
3. SITE: Oconee Nuclear Site Confirmation Phone # (864) 882-7076

4. **EMERGENCY CLASSIFICATION:** [A] UNUSUAL EVENT [B] ALERT [C] SITE AREA EMERGENCY [D] GENERAL EMERGENCY

BASED ON EAL #_____ EAL DESCRIPTION: _____

5. **PROTECTIVE ACTION RECOMMENDATIONS:** [A] NONE

[B] EVACUATE _____

[C] SHELTER _____

[D] CONSIDER THE USE OF KI (POTASSIUM IODIDE) IN ACCORDANCE WITH STATE PLANS AND POLICY.

[E] OTHER_____

6. **EMERGENCY RELEASE:** [A] None [B] Is Occurring [C] Has Occurred

7. RELEASE SIGNIFICANCE: [A] Not applicable [B] Within normal operating limits [C] Above normal operating limits [D] Under evaluation

8. EVENT PROGNOSIS: [A] Improving [B] Stable [C] Degrading

9. METEOROLOGICAL DATA: Wind Direction* from _____ degrees Wind Speed* _____mph

(*Not Required for Initial Notifications) Precipitation* _____ Stability Class* [A] [B] [C] [D] [E] [F] [G]

10. [A] DECLARATION [B] TERMINATION Time _____ Date ____/____/____

11. AFFECTED UNIT(S): [1] [2] [3] [All]

12. UNIT STATUS:

(Unaffected Unit(s) Status Not Required for Initial Notifications)

[A] U1 ____% Power Shutdown at Time _____ Date ___/____/___

[B] U2 ____% Power Shutdown at Time _____ Date ___/____/___

[C] U3 ____% Power Shutdown at Time _____ Date ___/____/___

13. REMARKS: _____

FOLLOW-UP INFORMATION (Lines 14 through 16 Not Required for Initial Notifications)

EMERGENCY RELEASE DATA. NOT REQUIRED IF LINE 6 A IS SELECTED.

14. RELEASE CHARACTERIZATION: TYPE: [A] Elevated [B] Mixed [C] Ground UNITS: [A] Ci [B] Ci/sec [C] µCi/sec

MAGNITUDE: Noble Gases:_____ Iodines:_____ Particulates:_____ Other: _____

FORM: [A] Airborne Start Time _____ Date ___/____/___ Stop Time _____ Date ___/____/___

[B] Liquid Start Time _____ Date ___/____/___ Stop Time _____ Date ___/____/___

15. PROJECTION PARAMETERS: *Projection period:* _____Hours *Estimated Release Duration* _____Hours

Projection performed: Time _____ Date ___/____/___

16. PROJECTED DOSE:

DISTANCE	TEDE (mrem)	Adult Thyroid CDE (mrem)
Site boundary	_____	_____
2 Miles	_____	_____
5 Miles	_____	_____
10 Miles	_____	_____

17. APPROVED BY: _____ Title **Emergency Coordinator** Time _____ Date___/____/___

NOTIFIED BY:_____ RECEIVED BY: _____ Time _____ Date ___/____/___

Enclosure 4.5

Guidelines for Completing a FOLLOW-UP Message

NOTE:

- Follow-up notifications are **NOT** required to be verbally transmitted. Follow-up messages may be faxed with phone verification of receipt. This applies only if the message does not involve a change in the classification or the Protective Action Recommendation or a termination of this Drill/Emergency.
- Follow-up message is due 60 minutes from the notification time on line 2 of the previous message sheet, except for an Unusual Event.
- A change in Protective Action Recommendations (PARs) is due within 15 minutes from the time they are determined by the TSC Emergency Coordinator/Dose Assessor.
- Pre-printed Emergency Notification forms containing specific EAL number and EAL description may be used in lieu of Enclosure 4.5.A or WebEOC.

☐ Obtain Enclosure 4.5.A (Nuclear Power Plant Emergency Notification Form, Follow-Up) and complete as directed below for a FOLLOW-UP message or use Enclosure 4.13 (WebEOC Notification Form Quick Reference):

☐ **Line 1** Mark "DRILL" or "ACTUAL EVENT".

Enter Message Number (very first message is #1 and then sequential numbering required until event terminated).

☐ **Line 2** Verify Box B is marked as a Follow-Up. Notification time and date will be completed after line 17.

☐ **Line 3** Verify site is marked as Oconee and confirmation phone number is 864-882-7076.

☐ **Line 4** Copy the Emergency Classification from the previous message sheet.

Copy the same EAL # from the previous message sheet.

Copy the same EAL Description from previous message sheet.

- Verify with the TSC Dose Assessor that information for lines 5, 6, 7, 9, 14, 15, and 16 have not changed since the last message sheet.
- If changes have not occurred since the previous message, then copy the same information from the last message sheet.
- If changes have occurred, then mark applicable boxes and add new information as directed by the TSC Dose Assessor and the OSC Chemistry Manager.

Guidelines for Completing a FOLLOW-UP Message

☐ **Line 5** Mark applicable sectors by each county as directed by the TSC/EC.

If KI has been recommended, mark Box D.

If a Keowee Hydro Dam/Dike Condition "A" exists:

- Mark Box B and write "Move residents living downstream of the Keowee Hydro dams to higher ground."
- AND mark Box E and write "Prohibit traffic flow across bridges identified on your inundation maps until the danger has passed."

☐ **Line 6** Mark the same box from the previous message sheet unless changes have occurred.

☐ **Line 7** Mark the same box from the previous message sheet unless changes have occurred.

☐ **Line 8** Verify plant conditions with Operations Support. If plant conditions have not changed since the previous message sheet, repeat the same information.

If plant conditions have changed since the previous message sheet, then mark Box A, B, or C as directed by Operations Support.

☐ **Line 9** Copy the same information from the previous message sheet unless changes have occurred.

☐ **Line 10** Mark Box A and copy the same Time/Date from the previous message sheet.

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

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

☐ **Line 11** Mark or select All if event affects the emergency classification on more than one unit.

Mark or select one (1) unit if event affects one unit or one (1) unit has a higher emergency classification.

NOTE: Unit status is REQUIRED for all three units for a FOLLOW-UP notification.

☐ **Line 12** Mark boxes A, B, and C.

Enter the percent power and/or shutdown time/date for all three units.

Guidelines for Completing a FOLLOW-UP Message

NOTE:	Examples of new information include: Evacuation/relocation of site personnel; fires onsite; MERT activation and/or injured personnel transported offsite; chemical spills; explosions; Condition "A" or "B" for a Keowee Hydro Project Dam/Dikes; or any event that would cause or require offsite agency response.

☐ **Line 13** Add any remarks or new information as requested by the Emergency Coordinator.

Write "None" if there are no additional remarks.

If upgrade in classification occurs prior to transmitting the message then include "upgrade to follow" on this line. {2}

☐ **Line 14** Mark the same box and copy the same information from the previous message sheet. If changes have occurred, see TSC Dose Assessor for this information.

☐ **Line 15** Copy the same information from the previous message sheet. If changes have occurred see TSC Dose Assessor for this information.

☐ **Line 16** Copy the same information from the previous message sheet. If changes have occurred see TSC Dose Assessor for this information.

NOTE:	Do <u>NOT</u> add or change information on the form after it has been approved by the TSC Emergency Coordinator.

☐ **Line 17** Obtain the TSC/EC signature/time/date of approval.

NOTE:	The "Received By, Time and Date" on Line 17 is completed by the Offsite Agency.

☐ **Line 17** Notified By: Print your name.

☐ To manually transmit this message, go to Enclosure 4.7 (Guidelines for Transmitting A Message).

Nuclear Power Plant Emergency Notification Form

RP/0/A/1000/015 B

FOLLOW-UP

Enclosure 4.5.A

1. [A] DRILL [B] ACTUAL EVENT MESSAGE # _____
2. [A] INITIAL [B] FOLLOW-UP NOTIFICATION: TIME_____ DATE____/____/____ AUTHENTICATION # _____
3. SITE: Oconee Nuclear Site Confirmation Phone # (864) 882-7076

4. **EMERGENCY CLASSIFICATION:** [A] UNUSUAL EVENT [B] ALERT [C] SITE AREA EMERGENCY [D] GENERAL EMERGENCY

BASED ON EAL #_____ EAL DESCRIPTION: _____

5. **PROTECTIVE ACTION RECOMMENDATIONS:** [A] NONE

[B] EVACUATE _____

[C] SHELTER _____

[D] CONSIDER THE USE OF KI (POTASSIUM IODIDE) IN ACCORDANCE WITH STATE PLANS AND POLICY.

[E] OTHER_____

6. **EMERGENCY RELEASE:** [A] None [B] Is Occurring [C] Has Occurred

7. RELEASE SIGNIFICANCE: [A] Not applicable [B] Within normal operating limits [C] Above normal operating limits [D] Under evaluation

8. EVENT PROGNOSIS: [A] Improving [B] Stable [C] Degrading

9. METEOROLOGICAL DATA: Wind Direction* from _____ degrees Wind Speed* _____mph

(*Not Required for Initial Notifications) Precipitation* _____ Stability Class* [A] [B] [C] [D] [E] [F] [G]

10. [A] DECLARATION [B] TERMINATION Time _____ Date ____/____/____

11. AFFECTED UNIT(S): [1] [2] [3] [All]

12. UNIT STATUS: (Unaffected Unit(s) Status Not Required for Initial Notifications)

[A] U1 ____% Power Shutdown at Time _____ Date ___/____/____

[B] U2 ____% Power Shutdown at Time _____ Date ___/____/____

[C] U3 ____% Power Shutdown at Time _____ Date ___/____/____

13. REMARKS: _____

FOLLOW-UP INFORMATION (Lines 14 through 16 Not Required for Initial Notifications)

EMERGENCY RELEASE DATA. NOT REQUIRED IF LINE 6 A IS SELECTED.

14. RELEASE CHARACTERIZATION: TYPE: [A] Elevated [B] Mixed [C] Ground UNITS: [A] Ci [B] Ci/sec [C] µCi/sec

MAGNITUDE: Noble Gases:_____ Iodines:_____ Particulates:_____ Other: _____

FORM: [A] Airborne Start Time _____ Date ___/____/____ Stop Time _____ Date ___/____/____

[B] Liquid Start Time _____ Date ___/____/____ Stop Time _____ Date ___/____/____

15. PROJECTION PARAMETERS: Projection period: _____Hours Estimated Release Duration _____Hours

Projection performed: Time _____ Date ___/____/____

16. PROJECTED DOSE:

DISTANCE	TEDE (mrem)	Adult Thyroid CDE (mrem)
Site boundary	_____	_____
2 Miles	_____	_____
5 Miles	_____	_____
10 Miles	_____	_____

17. APPROVED BY: _____ Title Emergency Coordinator Time _____ Date___/____/____

NOTIFIED BY:_____ RECEIVED BY: _____ Time _____ Date ___/____/____

Enclosure 4.6

Guidelines for Completing a
TERMINATION Message

NOTE:	Only required to complete lines 1, 3, 10, and 17. All other lines are left BLANK.

☐ Obtain Enclosure 4.6.A (Nuclear Power Plant Emergency Notification Form) and complete as follows for a TERMINATION message or use Enclosure 4.13 (WebEOC Notification Form Quick Reference).

☐ **Line 1** Mark "DRILL" or "ACTUAL EVENT".

Enter Message Number (very first message is #1 and then sequential numbering required until event terminated).

☐ **Line 3** Verify site is marked as Oconee and confirmation phone number is 864-882-7076.

☐ **Line 10** Mark Box B and enter the time in military units and date Emergency Coordinator terminated the event.

NOTE:	Do <u>NOT</u> add or change information on the form after it has been approved by the TSC Emergency Coordinator.

☐ **Line 17** Obtain the Emergency Coordinator signature/time/date of approval.

NOTE:	The "Received By, Time and Date" on Line 17 is completed by the Offsite Agency.

☐ **Line 17** Notified By: Print your name.

☐ To manually transmit this message, go to Enclosure 4.7 (Guidelines for Transmitting A Message).

Nuclear Power Plant Emergency Notification Form
TERMINATION
Enclosure 4.6.A

1. [A] DRILL [B] ACTUAL EVENT MESSAGE # _____
2. [A] INITIAL [B] FOLLOW-UP NOTIFICATION: TIME_____ DATE____/____/____ AUTHENTICATION # _____
3. SITE: **Oconee Nuclear Site** Confirmation Phone # (864) 882-7076

4. **EMERGENCY CLASSIFICATION:** [A] UNUSUAL EVENT [B] ALERT [C] SITE AREA EMERGENCY [D] GENERAL EMERGENCY
BASED ON EAL #_____ EAL DESCRIPTION: _____

5. **PROTECTIVE ACTION RECOMMENDATIONS:** [A] NONE
[B] EVACUATE _____
[C] SHELTER _____
[D] CONSIDER THE USE OF KI (POTASSIUM IODIDE) IN ACCORDANCE WITH STATE PLANS AND POLICY.
[E] OTHER_____

6. **EMERGENCY RELEASE:** [A] None [B] Is Occurring [C] Has Occurred

7. RELEASE SIGNIFICANCE: [A] Not applicable [B] Within normal operating limits [C] Above normal operating limits [D] Under evaluation
8. EVENT PROGNOSIS: [A] Improving [B] Stable [C] Degrading
9. METEOROLOGICAL DATA: Wind Direction* from _____ degrees Wind Speed* _____mph
(*Not Required for Initial Notifications) Precipitation* _____ Stability Class* [A] [B] [C] [D] [E] [F] [G]
10. [A] DECLARATION [B] TERMINATION Time _____ Date ____/____/____
11. AFFECTED UNIT(S): [1] [2] [3] [All]
12. UNIT STATUS: [A] U1 ____% Power Shutdown at Time _____ Date ___/____/___
(Unaffected Unit(s) Status Not Required for Initial Notifications) [B] U2 ____% Power Shutdown at Time _____ Date ___/____/___
[C] U3 ____% Power Shutdown at Time _____ Date ___/____/___
13. REMARKS: _____

FOLLOW-UP INFORMATION (Lines 14 through 16 Not Required for Initial Notifications)

EMERGENCY RELEASE DATA. NOT REQUIRED IF LINE 6 A IS SELECTED.

14. RELEASE CHARACTERIZATION: TYPE: [A] Elevated [B] Mixed [C] Ground UNITS: [A] Ci [B] Ci/sec [C] µCi/sec
MAGNITUDE: Noble Gases:_____ Iodines:_____ Particulates:_____ Other: _____
FORM: [A] Airborne Start Time _____ Date ___/____/___ Stop Time _____ Date ___/____/___
[B] Liquid Start Time _____ Date ___/____/___ Stop Time _____ Date ___/____/___
15. PROJECTION PARAMETERS: Projection period: _____Hours Estimated Release Duration _____Hours
Projection performed: Time _____ Date ___/____/___
16. PROJECTED DOSE:

DISTANCE	TEDE (mrem)	Adult Thyroid CDE (mrem)
Site boundary	_____	_____
2 Miles	_____	_____
5 Miles	_____	_____
10 Miles	_____	_____

17. APPROVED BY: _____ Title **Emergency Coordinator** Time _____ Date___/____/___
NOTIFIED BY:_____ RECEIVED BY: _____ Time _____ Date ___/____/___

Enclosure 4.7

Guidelines For Transmitting A Message

Message Transmittal

☐ Fax Form - For guidance see Enclosure 4.8 (Copy/Fax Operation)

☐ Use Speed Dial 14 (Speed dial 17 can be used as backup).

☐ Dial *4 on selective signaling phone

☐ As each agency answers, say "*This is the Oconee Nuclear Station, please hold.*"

☐ Document on Line 2 of the ENF, the time/date when the first agency answers the Selective Signaling phone.

Check off the following MINIMUM required agencies as they answer the phone and record time.

Date:_____

☐ **Oconee County** (Staffed 24 hrs.) **Law Enforcement Center** 864-638-4111 FAX: 864-638-4434 Selective Signaling 416 Initial Notification Time:_____ Follow-up Notification Time:_____	**OR**	☐ **Oconee County** (M-F 8:30 am -5 pm) **Emergency Management** 864-638-4200 FAX: 864-638-4216 Selective Signaling 417 Initial Notification Time:_____ Follow-up Notification Time:_____
☐ **Pickens County** (Staffed 24 hrs) **Law Enforcement Center** 864-898-5500 FAX: 864-898-5531 Selective Signaling 410 Initial Notification Time:_____ Follow-up Notification Time:_____	**OR**	☐ **Pickens County** (M-F 8:30 am.-5 pm) **Emergency Management** 864-898-5943 FAX: 864-898-5797 Selective Signaling 419 Initial Notification Time:_____ Follow-up Notification Time:_____
☐ **South Carolina State Warning Point** (Staffed 24 hrs) 803-737-8500 FAX: 803-737-8575 Selective Signaling 518 Initial Notification Time:_____ Follow-up Notification Time:_____		

NOTE: DHEC receives FAX, NO action required. DHEC may verify receipt of FAX with a call back.

☐ **IF** Required minimum agencies did not answer the phone see agency numbers in table above to call.

THEN Dial the absent agency selective signaling number.

- If agency does not answer, then go to next step.

Enclosure 4.7

Guidelines For Transmitting A Message

☐ If requested, authenticate message. Write in number provided by agency on line 2 and provide corresponding code word from authentication list in yellow folder.

NOTE:	For Follow-Up or Termination Messages, only verification that all agencies have received a fax is necessary. Do **NOT** read form.

☐ **IF** This is an initial notification and/or a change to Protected Action Recommendations

THEN Say "*This is the Oconee Nuclear Station TSC. This is a Drill/Emergency (choose one). If you have not already received a fax or printed an electronic copy of the Emergency Notification Form, please obtain a blank copy of the form. I am going to read the entire form beginning with line 1. Please hold all questions until the entire form has been read.*"

Slowly read entire message line by line to the agencies allowing time for them to copy the information or to review fax/electronic copy of the ENF.

☐ After message has been delivered, say *"I need to verify the name of each agency representative. When I call out the agency, please give your name."*

☐ Obtain and record time, date and name of person contacted.

Initial Notification

Time/Date Notified: _____ Eastern	____/____/____ MM DD YY	
Oconee County Law Enforcement Center	Name: _____	Time _____
Oconee County Emergency Management	Name: _____	Time _____
Pickens County Law Enforcement Center	Name: _____	Time _____
Pickens County Emergency Management	Name: _____	Time _____
South Carolina State Warning Point	Name: _____	Time _____

Follow-Up Notification

Time/Date Notified: _____ Eastern	____/____/____ MM DD YY	
Oconee County Law Enforcement Center	Name: _____	Time _____
Oconee County Emergency Management	Name: _____	Time _____
Pickens County Law Enforcement Center	Name: _____	Time _____
Pickens County Emergency Management	Name: _____	Time _____
South Carolina State Warning Point	Name: _____	Time _____

Enclosure 4.7

Guidelines For Transmitting A Message

☐ **IF** A Keowee dam/dike condition "A" or "B" or external flood condition exist for the site

THEN Fax form using Speed Dial #27

Once form is faxed, make phone calls to GEMA and National Weather Service using phone numbers in table below. GEMA will notify Hart and Elbert County.

☐ **Georgia Emergency Management Agency (GEMA 404-635-7000 or 404-635-7200)** FAX Speed Dial 27 (Fax form for any Condition A or B dam/dike event) **Name:** _____ Time/Date: _____ ___/___/___ Eastern MM DD YY
☐ **National Weather Service (NWS 864-879-1085)** FAX Speed Dial 27 (Fax form for any Condition A or B dam/dike event) **Name:** _____ Time/Date: _____ ___/___/___ Eastern MM DD YY
☐ **Hart County Emergency Management Agency - Georgia (GEMA will notify)** Fax Speed Dial 27 (Fax form for any condition A or B dam/dike event)
☐ **Elbert County Emergency Management Agency - Georgia (GEMA will notify)** Fax Speed Dial 27 (Fax form for any condition A or B dam/dike event)

☐ Begin call by saying "You should have received a fax indicating Keowee Hydro Dam/Dike is in condition A or B, or an external flood condition exist for the site, do you have any questions?"

☐ Record any agency questions unrelated to message on Enclosure 4.11 (Response to Offsite Agency Questions) and inform agency that you will contact them with the answer.

☐ End call by saying, *"If you haven't already, you will be receiving a fax copy of this message shortly. Additional information will be provided as it becomes available. This concludes this message."*

☐ If one of the required agencies did not answer selective signaling, try alternate method to reach agency. Refer to Enclosure 4.9 (Alternate Method and Sequence to Contact Offsite Agencies) and the Emergency Telephone Directory for guidance as needed. Once agency contacted, read message and then record agency name, time, and date contacted in space above.

☐ Retrieve Confirmation Report from fax and verify all required agencies received the message.

☐ If questions were asked by an offsite agency complete all sections on Enclosure 4.11 (Response to Offsite Agency Questions). Fax the form to all agencies and follow-up with a verbal call to ensure receipt of the form and that there are no additional questions. Attach applicable message sheet to this form.

☐ Copy Emergency Notification Form and distribute to all TSC primary positions.

☐ Provide Emergency Coordinator with a status of offsite notifications:

-Agencies notified/not notified
-Any communications equipment problems:

NOTE:	The following step is **NOT** applicable for termination message.

☐ If meteorological data was not provided on the previous message, then initiate a Follow-up message and include the met data.

☐ Attach ALL completed enclosures to the applicable message sheet.

NOTE:	The following step is **NOT** applicable for termination message.

☐ Initiate turnover to the EOF Offsite Agency Communicator by completing Enclosure 4.10 (Turnover Checklist)

_____ 1. The TSC Offsite Communicator will fax turnover sheet to the EOF.
_____ 2. Review the form with the EOF Offsite Agency Communicator.

☐ **IF** Turnover has been completed,

THEN Go to Step 3.6 of Subsequent Actions.

☐ **IF** Turnover has **NOT** been initiated

THEN GO to Immediate Actions Step 2.7.

☐ **IF** Termination message has been sent to end event

THEN Go to Step 3.14 of Subsequent Actions.

NOTE:	This enclosure provides basic operating instructions for the primary faxes in the TSC, U-1/2 Control Room and OSC.

1. TSC/Control Room/OSC/EOF

NOTE:	The "STOP" button is used to cancel sending, receiving, registering data or cancel any other operation. Transmission of the notification form will start automatically after the dialing operation is completed. Since this is a send operation to multiple faxes, the Fax scans the document(s) prior to automatic dialing

☐ 1.1 FAX the notification form using the following method:

A. Insert notification form, adjust document guide if needed.

B. Determine which Speed Dial Code number to use

C. Press the Speed Dial Code number

D. Press the START button

☐ 1.2 COPY the notification form using the following method:

A. Insert notification form, adjust document guide if needed.

B. Press copy button

C. Press the START button

Enclosure 4.8

COPY/FAX Operation

The following Speed Dial Codes have been programmed into the fax in the TSC/Unit 1&2 Control Room/OSC/EOF:

Speed Dial Code	Agency/Location Sent To	
01	NRC	
02	Pickens County EMA	
03	Oconee County EMA	
04	SC State Warning Point	
05	SEOC	
06	DHEC-BSHWM	
07	EOF	
08	OSC	
09	World Of Energy	
10	TSC Backup Emergency Response Facility (ERF)	
11	Oconee Complex	
12	SSG & NSC	
13	Clemson JIC	
14	Dial Group:	Pickens County EMA Oconee County EMA SC State Warning Point Oconee County LEC Pickens County LEC EOF World Of Energy GO JIC Clemson JIC
15	Dial Group:	Pickens County EMA Oconee County EMA
16	FEOC	
17	Dial Group:	Pickens County EMA Oconee County EMA SEOC EOF World Of Energy GO JIC
18	Oconee County LEC	
19	Safety Assurance	
20	GO JIC	
21	Security	
25	National Weather Service	
26	GEMA	
27	Dial Group: National Weather Service GEMA Hart Co. EMA Elbert Co. EMA	
29	Dial Group: EOF; OSC	
30	ONS SRG/RC/EC	
31	Dial Group: OSC; Security	

Enclosure 4.9

Alternate Method And Sequence To Contact Agencies

NOTE:	Phone numbers and radio operating instructions are included in the Emergency Telephone Directory.

☐ PLANT phone system (direct outside line)

☐ Portable phone system (direct outside line)

☐ Offsite Base Radio from the Control Room

Push SEL on WQC699 frequency panel.

Adjust volume control knob to a high setting.

Enter the group call radio code 30* using the numeric key pad, OR enter the applicable radio code for the offsite agency.

Oconee County LEC	32*
Pickens County LEC	35*
Pickens County EMA	31*

NOTE:	Pickens County EMA is not staffed after 1700 hours Monday - Friday or on weekends and holidays.

Press MONITOR button to determine if the selected frequency is in use.

Depress FOOT PEDAL or XMIT button AND keep engaged while talking.

Call the offsite agency being contacted by using applicable Identifier. For Example - "Oconee Control Room to Oconee LEC".

Oconee County LEC	Oconee LEC
Pickens County LEC	Pickens LEC
Pickens County EMA	Pickens EOC
U1&2 Control Room	Oconee Control Room

Release FOOT PEDAL or XMIT button to receive incoming response from offsite agency.

Record Time/Call Letters of agency/agencies receiving notification on the Emergency Notification Form.

Oconee County LEC	KNBE-488
Pickens County LEC	KNBZ-965
Pickens County EMA	KNBE-480

☐ End radio transmission using Call Letters WQC699.

☐ Satellite phone located in U-1&2 OSM's office.

Enclosure 4.10

Turnover Checklist

Last Emergency Notification Form Message Number: _____

Next Message Due (Time) _____

COMMUNICATIONS STATUS

Indicate which agencies have been contacted:	**YES**	**NO**
Oconee County Law Enforcement Center		
Oconee County Emergency Management Agency		
Pickens County Law Enforcement Center		
Pickens County Emergency Management Agency		
State Warning Point - (South Carolina Highway Dept. is a backup should the State Warning Point loose communications)		
DHEC (BSHWM)		

Communications Problems Experienced: _____

_____

_____

Site Evacuation: Yes_____ No _____ Time Evacuation Initiated _____

Evacuation Location:

Daniel High School Yes _____ No _____

Keowee Elementary Yes _____ No _____

Home Yes_____No _____

Site Relocation: Yes _____ No_____ Assembly Location _____

Backup Emergency Response Facility (ERF) Activated: TSC: Yes ___No ___ OSC: Yes___No____

Other Pertinent Information (Evacuation/relocation of site personnel; fires onsite; MERT activation and/or injured personnel transported offsite; chemical spills; explosions; Condition "A" or "B" for Keowee Hydro Project Dams/Dikes or any event that would cause or require offsite agency response):

_____

_____

_____ _____

TSC Offsite Communicators Name Time/Date of Turnover

FAX this form to the Charlotte EOF at the following number 704-382-0722.

Enclosure 4.11

Response to Offsite Agency Questions

QUESTION # _____

Requesting Offsite Agency Name _____

Name of Individual from Agency _____

Offsite Communicator's Name _____

Applicable Emergency Notification Form Message Number ____

ENTER AGENCY QUESTION:_____

_____

_____

_____

_____

ENTER EMERGENCY COORDINATOR ANSWER: _____

_____

_____

_____

_____

Approved by Emergency Coordinator:_____

Response Provided To (Name): _____Date: _____ Time: _____

CDEP	County Director of Emergency Preparedness
DHEC (BSHWM)	Dept. of Health and Environmental Control (Bureau of Solid Hazardous Waste & Management)
EAL	Emergency Action Level
EC	Emergency Coordinator
EMA	Emergency Management Agency
ENS	Emergency Notification System
EOC	Emergency Operating Center
EOF	Emergency Operations Facility
EOFD	Emergency Operations Facility Director
ERO	Emergency Response Organization
FAX	Facsimile
FEOC	Forward Emergency Operations Center
FMT	Field Monitoring Team
GEMA	Georgia Emergency Management Agency
HPN	Health Physics Network
IAAT	If At Any Time
JIC	Joint Information Center
LEC	Law Enforcement Center
NEP	Nuclear Emergency Planning
NRC DSO	Nuclear Regulatory Commission, Director of Site Operations
NRC EOC	Nuclear Regulatory Commission, Emergency Operations Center
NSC	Nuclear Supply Chain
NWS	National Weather Service
OSC	Operational Support Center
OSM	Operations Shift Manager
PAR	Protective Action Recommendation
SCEHD	South Carolina Highway Department
SDEM	State Director of Emergency Management
SEOC	State Emergency Operations Center
SRG	Safety Review Group
SSG	Site Services Group
SS	Selective Signaling
SWP	State Warning Point
TS	Technical Specifications
TSC	Technical Support Center

Enclosure 4.13

WebEOC Notification Form Quick Reference

Select **DAE**; Search DAE for WebEOC. Click **WebEOC**. On Login Screen for **Position** select ONS TSC Off-site Communicator and for **Incident** select appropriate incident and click OK. Click **EN Form**. Click **Add Emergency Notification.**

NOTE:
- The required EN Form fields will have a green background.
- Clicking on the "Save Draft" button on the EN Form will close the EN form and open the Emergency Notification Messages Panel
- For a termination message, only Lines 1, 3 10, and 17 are required.
- Lines 1, 3, 4, 5, 6, 9, 10, and 11 are required to be correct for Performance Indicator Credit

Line	Description	Source
1	▪ Select A for **Drill** or B for **Actual Event**. ▪ Ensure Record Message # is correct (message number is auto-populated sequentially with each new ENF).	**Comm.**
2	Select A for **Initial** or B for **Follow-up** **NOTE:** Notification Time/Date and Authentication will be auto-populated during message transmission.	**Comm.**
3	▪ **Select** "**Oconee**" with the pull-down menu ▪ **Select** appropriate Confirmation Phone Number with the pull-down menu (e.g. TSC (864)-882-7076).	**Comm.**
4	▪ Ensure the appropriate **Event Classification** radio button is selected. ▪ Ensure the appropriate **EAL #** from the "Based on EAL" drop-down menu is selected. ▪ Verify **EAL Description** matches EAL Number.	**Ops**
5	**Protective Action Recommendations** ▪ **IF** Unusual Event, Alert, or Site Area Emergency, Select A **None** (Except for dam failure, see 3rd. bullet). ▪ **IF** General Emergency, select B **Evacuate** and C **Shelter** then select appropriate zones. • **IF** circumstances warrant, Select D **KI** and/or E **Other** as appropriate ▪ **IF** Condition **A/B dam failure** exists, select info in pull down menu by B **Evacuate** and click on E **Other** for traffic instructions.	**Facility Mgr (FM) /TSC Dose Assessor**
6	▪ **Emergency Release** Verify/Select as appropriate: A - **None** B - **Is Occurring** C - **Has Occurred**	**TSC Dose Assessor**
NOTE:	Clicking on the "Import Dose Data Projection Data" button will auto-populate the fields in lines 14 through 16 if a Unified RASCAL Interface (URI) dose run has been performed. Clicking on the "Clear Dose Data" button will clear the fields in lines 14 through 16.	
7	**Release Significant**: Verify/Select box **A, B, C** or **D** as directed by the facility Dose Assessor.	**TSC Dose Assessor**
8	**Event Prognosis:** Select A **Improving**, B **Stable**, or C **Degrading** as directed by facility mgr.	**FM**
NOTE:	• Clicking on the "Import Plant/MET Data" will fill in the Meteorological Data fields in line 9 and the unit power if the unit(s) is **NOT** in shutdown. • Meteorological data is **NOT** required on initial notifications, but if available and time allows, import Met Data.	
9	**Meteorological Data:** ▪ Select the "Import Plant/MET Data button to auto-populate Wind Direction, Wind Speed, Precipitation and Stability Class. ▪ Ensure MET Data is correct.	**TSC Dose Assessor**
10	▪ Select A for **Declaration** or B for **Termination** as appropriate. ▪ Enter the time. ▪ Select the **Get Date** button to acquire the current date, and adjust as necessary.	**FM /Ops**
11	**Affected Units** ▪ **IF** the classification affects more than one unit select the "**ALL**" radio button. ▪ **IF** the classification only affects one unit, select the radio button for the affected unit.	**Ops**

12	**Unit Status -** **IF** the affected Unit(s) is Shutdown, ▪ Record "0" in % Power. ▪ Record time of shutdown. ▪ Enter the date of the shutdown. **IF** the affected Unit(s) is **NOT** Shutdown, ▪ Click "Import Plant/MET Data" button from field 9. ▪ Ensure correct plant status for the affected unit(s).	**Ops**
13	**Remarks:** Record any additional information. If no remarks then type 'None.' If upgrade in classification occurs prior to transmitting the message then include "upgrade to follow" on this line.	**FM**
14 -16	**Release Data:** Not required on initial notification but if available and time allows enter information. Select "Import Dose Projection Data" button from before Line 7 to auto-populate the data in lines 14 through 16. ▪ IF URI data has changed, review entire form. {3}	**URI**
NOTE:	Select the **Save Draft** button to return to the Emergency Notification Messages panel. (remains enabled to edit in draft) If the Approved button is inadvertently selected prior to the end of actions required to complete line 17, the form will be locked, and any edits that must be made or fields to be entered will require the entire form to be recompleted.	
17	**Approved By:** ▪ Assure all sections are complete by clicking the **Validate** button. (except 17 Approved By) ▪ Review the EN Form in "Edit" mode with ERO TSC facility personnel for validation (Edit mode will allow for changes to be made during the review process). ▪ Enter the **Approver's name** (Emergency Coordinator) in the "Approved by" field. o Select the **appropriate title** from the "Title" pull-down menu. o Select the "Get Time" button and adjust as necessary. o Select the "Get Date" button and adjust as necessary. ▪ **Record** the name of the Communicator making the call on the **Notified by** line. ▪ **Select** the "**Approve**" button at the bottom of the form. (no additional edits can be made once Approved)	**Comm.**
NOTE:	The Emergency Notification Fax Management panel will open automatically when the "Approve" button is selected on the EN Form Panel.	
WEB EOC FAX	**FAX** the EN Form to the State and County Agencies: ▪ Access the appropriate EN Form on the Emergency Notification Fax Management panel. ▪ Verify Fax "Recipient name" list is correct. ▪ Verify the Fax Confirmation Email Address is correct. ▪ Select the "Send Fax" button. ▪ Select "OK."	**Comm.**
Manual Approval	**IF** manually faxing (web EOC is **NOT** successful), perform the following to obtain hard copy approvals: ▪ From the Emergency Notification Panel, select the correct message and click **View** under the EN Form: ▪ **Obtain** Emergency Coordinator review and signature on the EN Form hard copy. ▪ **Select** the **Edit** button in the Details column to open the EN Form. o Correct any discrepancies identified in EC's review. o Upon review completion and the form is ready for the EC approval signature: **Select** the **View** button in the EN Form column to open a printable EN Form. o **Select** the **Print** button on the EN Form and follow the prompts to open a .pdf file. o **Print** the .pdf file. ▪ **Select** the printer icon or print from the file drop down menu and follow the prompts to print the EN Form. o **Select** the **Return** button on the EN Form to open the Emergency Notification Messages panel.	**Comm.**
Selective Signaling/Manual Faxing	Refer to Enclosure 4.7 for Guidelines for Transmitting A Message.	**Comm.**

Enclosure 4.14

References

1. PIP O-06-6511
2. PIP G-07-0127
3. PIP G-09-1159
4. PIP O-11-9459
5. AD-EP-ALL-0102 (WeBEOC Maintenance and Administration)
6. AD-EP-ALL-0202 (Emergency Response Offsite Dose Assessment)

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/1000/015B
2. Revision No.: 002
3. Change No.: __ **Note:** if this package is for a change, replace hyphen with a letter.
4. Procedure Title: Offsite Communications from the Technical Support Center
5. For changes only, enter procedure sections affected: __
6. Prepared By: Natalie Harness
7. Preparation Date: 11/24/2014
8. PCR Numbers Included in Revision: ONS-2014-05919

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.

Form 703-1. Procedure Process Record (PPR)

(R08-10)

Duke Energy

PROCEDURE PROCESS RECORD

(1) ID No. RP/0/A/1000/015B

Revision No. 002

PREPARATION

(2) Station OCONEE NUCLEAR STATION

(3) Procedure Title Offsite Communications from the Technical Support Center

(4) Prepared By* Natalie Harness (Signature) Natalie Harness Date 11/24/2014

(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* [illegible] (QR)(KI) Date 12-9-14

Cross-Disciplinary Review By* _____ (QR)(KI) NA Date 12-9-14

Reactivity Mgmt Review By* _____ (QR) NA Date 12-9-14

Mgmt Involvement Review By* _____ (Ops. Supt.) NA Date 12-9-14

(7) Additional Reviews

Reviewed By* _____ Date _____

Reviewed By* _____ Date _____

(8) Approved By* Patrick M Street [illegible] Date 12/10/14

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)*

* *Printed Name and Signature*

Procedure Title: Offsite Communications from the Technical Support Center

SUMMARY OF CHANGES: (DESCRIPTION AND REASON)

General Changes

Revision 002 of RP/0/A/1000/015B consists of the following changes to reflect replacement of Raddose V dose assessment model with Unified RASCAL Interface (URI):

- A clarification to the introduction note regarding the procedure is an implementing procedure for the E Plan and as such requires an effectiveness review under 50.54q for any changes.
- Changed "Alternate" to "Backup Emergency Facility (ERF)" per NEI 13-01.
- Many editorial changes made correcting grammatical corrections and other editorial issues.
- Addition of Enclosure 4.13 (WebEOC Notification Form Quick Reference)

PCR Numbers Incorporated

ONS-2014-05919

Enclosure

Attachment to 50.54q

RP/0/A/1000/015B, Rev 002, Offsite Communications from the Technical Support Center

#	Page /Section	Current	Proposed Change	Reason
1.	Page 2 of 7 Note section	Note: This procedure is an implementing Procedure to the Oconee Nuclear Site Emergency Plan and must be forwarded to Emergency Planning within seven (7) working days of approval.	NOTE: • This is an implementing Procedure to the Oconee Nuclear Site Emergency Plan and must be reviewed in accordance with 10CFR50.54q by Emergency Preparedness within seven (7) working days of approval.	Enhancement: Added the following note to ensure evaluation for a 10CFR50.54q effectiveness review.
2.	Page 2 of 7 1.1	Events are in progress or have occurred which require activation of the Oconee Nuclear Site Emergency Plan and notification of offsite agencies.	Events are "in progress" or "have occurred" which require activation of the Oconee Nuclear Site Emergency Plan and notification of offsite agencies.	Enhancement: quotes around "in-progress" and "have occurred" to pint out the specific language
3.	Page 2 of 7 2.2	Obtain the following items from the Emergency Procedures Cart.	Obtain the following items from the Emergency Procedures Cabinet or the Position Specific Notebook.	Editorial: changed cart to "Cabinet or the Position Specific Notebook."
4.	Page 3 of 7 2.4 last item	NRC Inspector(s).	NRC Inspector(s)	Editorial: removed period
5.	Page 3 of 7 below 2.6		NOTE: Enclosure 4.13 (WebEOC Notification Form Quick Reference) contains instructions for using WebEOC in filling out the Emergency Notification Form (ENF), including offsite agencies notification and documentation.	Addition: Note to step 2.6 referencing Enclosure 4.13, WebEOC Notification Form Quick Reference
6.	Page 4 of 7 Note	**FOLLOW -UP FOR AN UNUSUAL EVENT** - A Follow-Up notification is **NOT** required for an Unusual Event unless requested.	**FOLLOW-UP FOR AN UNUSUAL EVENT** - A Follow-Up notification is **NOT** required for an Unusual Event unless requested.	Editorial: removed space between "FOLLOW -"
7.	Page 5 of 7 2.7.1	If electronically completing a form, use information in enclosures 4.1 - 4.6 or go to Enclosure 4.13.	If electronically completing a form, use information in enclosures 4.1 - 4.6 or go to Enclosure 4.13 (WebEOC Notification Form Quick Reference)	Editorial: reference the title of the enclosure
8.	Page 5 of 7 2.7.5	If an **ALERT** initial or upgrade exists, complete Enclosure 4.3 (Guidelines for Completing an Initial Message for an Alert Event).	If an **ALERT** initial or upgrade exists, complete Enclosure 4.3 (Guidelines for Completing an Initial Message for an Alert Event).	Editorial: unbold the parenthesis and period
9.	Page 7 of 7 NOTE & 3.10	NOTE: EH&S will perform procedure guidance in RP/0/A/1000/01 but may ask TSC Offsite Communicator to make appropriate notifications to offsite agencies if necessary. 3.10 Complete notification to off-site agencies per RP/0/A/1000/017 (Spill Response) as directed by EH&S.	NOTE: Environmental Services will perform procedure guidance in RP/0/A/1000/01 but may ask TSC Offsite Communicator to make appropriate notifications to offsite agencies if necessary. 3.10 Complete notification to off-site agencies per RP/0/A/1000/017 (Spill Response) as directed by Environmental Services.	Editorial: corrected EH&S to Environmental Services
10.	Page 7 of 7 4.13	4.13 WEB EOC - Notification Form Quick Reference	4.13 WebEOC Notification Form Quick Reference	Editorial: corrected reference to WebEOC and removed -

#	Page /Section	Current	Proposed Change	Reason
11.	Enclosure 4.1 Page 1 of 3	Obtain Enclosure 4.1.A (Nuclear Power Plant Emergency Notification Form) for a GENERAL EMERGENCY EVENT and complete the form as follows or use Enclosure 4.13:	Obtain Enclosure 4.1.A (Nuclear Power Plant Emergency Notification Form) for a GENERAL EMERGENCY EVENT and complete the form as follows or use Enclosure 4.13 (WebEOC Notification Form Quick Reference):	Editorial: added title reference
12.	Enclosure 4.1 Page 1 of 3	If KI has been recommended, mark Box D **Line 5...** If a Keowee Hydro Dam/Dike Condition "A" exists: Mark Box B and write "*Move residents living downstream of the Keowee Hydro dams to higher ground.* AND mark Box E and write *"Prohibit traffic flow across bridges identified on your inundation maps until the danger has passed."*	If KI has been recommended, mark Box D. **Line 5...** If a Keowee Hydro Dam/Dike Condition "A" exists: Mark Box B and write "Move residents living downstream of the Keowee Hydro dams to higher ground. AND mark Box E and write "Prohibit traffic flow across bridges identified on your inundation maps until the danger has passed."	Editorial: remove italics, not acceptable form of emphasis in procedures writers guide and added a period to first sentence
13.	Enclosure 4.2 Page 1 of 3	Obtain Enclosure 4.2.A (Nuclear Power Plant Emergency Notification Form) for a SITE AREA EMERGENCY EVENT and complete the form as follows or use Enclosure 4.13:	Obtain Enclosure 4.2.A (Nuclear Power Plant Emergency Notification Form) for a SITE AREA EMERGENCY EVENT and complete the form as follows or use Enclosure 4.13 (WebEOC Notification Form Quick Reference):	Editorial: added title reference
14.	Enclosure 4.1 Page 1 of 3	**Line 5...** If a Keowee Hydro Dam/Dike Condition "A" exists: Mark Box B and write "*Move residents living downstream of the Keowee Hydro dams to higher ground.* AND mark Box E and write *"Prohibit traffic flow across bridges identified on your inundation maps until the danger has passed."*	**Line 5...** If a Keowee Hydro Dam/Dike Condition "A" exists: Mark Box B and write "Move residents living downstream of the Keowee Hydro dams to higher ground. AND mark Box E and write "Prohibit traffic flow across bridges identified on your inundation maps until the danger has passed."	Editorial: remove italics, not acceptable form of emphasis in procedures writers guide
15.	Enclosure 4.3 Page 1 of 2 NOTE	NOTE: The initial notification is required to be made within 15 minutes from the official Declaration time on Line 10. • Pre-printed Emergency Notification forms containing specific EAL number and EAL description may be used in lieu of Enclosure 4.3.A or WebEOC.	NOTE: • The initial notification is required to be made within 15 minutes from the official Declaration time on Line 10. • Pre-printed Emergency Notification forms containing specific EAL number and EAL description may be used in lieu of Enclosure 4.3.A or WebEOC.	Editorial: added bullets to both items
16.	Enclosure 4.3 Page 1 of 2 Block 1	Obtain Enclosure 4.3.A (Nuclear Power Plant Emergency Notification Form) for a ALERT EVENT and complete the form as follows or use Enclosure 4.13:	Obtain Enclosure 4.3.A (Nuclear Power Plant Emergency Notification Form) for a ALERT EVENT and complete the form as follows or use Enclosure 4.13 (WebEOC Notification Form Quick Reference):	Editorial: added title reference

#	Page /Section	Current	Proposed Change	Reason
17.	Enclosure 4.3 Page 1 of 2 Line 4 #2	Contact the OSC Chemistry Manager (ext. 3495) to verify the status of any liquid releases	Contact the OSC Chemistry Manager (ext. 3495) to verify the status of any liquid releases.	Editorial: added a period to the end of the sentence
18.	Enclosure 4.3 Page 2 of 2 Line 11	Mark or select one (1) unit if event affects one unit or one (1) unit has a higher emergency classification	Mark or select one (1) unit if event affects one unit or one (1) unit has a higher emergency classification.	Editorial: added a period to the end of the sentence
19.	Enclosure 4.4 Page 1 of 2 Block 1	Obtain Enclosure 4.4.A (Nuclear Power Plant Emergency Notification Form) for a UNUSUAL EVENT and complete the form as follows or use Enclosure 4.13:	Obtain Enclosure 4.4.A (Nuclear Power Plant Emergency Notification Form) for a UNUSUAL EVENT and complete the form as follows or use Enclosure 4.13 (WebEOC Notification Form Quick Reference):	Editorial: added title reference
20.	Enclosure 4.4 Page 2 of 2 Line 11	Mark or select one (1) unit if event affects one unit or one (1) unit has a higher emergency classification	Mark or select one (1) unit if event affects one unit or one (1) unit has a higher emergency classification.	Editorial: added a period to the end of the sentence
21.	Enclosure 4.4 Page 1 of 2 NOTE 3	NOTE: Lines 14, 15, & 16 - These lines are **NOT** required to be completed for an initial notification....	NOTE: Lines 14, 15, & 16 are **NOT** required to be completed for an initial notification....	Editorial: removed un-necessary words"- These lines"
22.	Enclosure 4.5 Page 1 of 3 NOTE Bullets 1 & 3	• ... Follow up messages maybe faxed with phone verification of receipt.... • Follow-up message is due 60 minutes from the notification time on line 2 of the previous message sheet.	• ... Follow-up messages maybe faxed with phone verification of receipt.... • Follow-up message is due 60 minutes from the notification time on line 2 of the previous message sheet, except for an Unusual Event.	Editorial: added a dash between Follow and up & "except for an Unusual Event"
23.	Enclosure 4.5 Page 1 of 3 Block 1	Obtain Enclosure 4.5.A (Nuclear Power Plant Emergency Notification Form, FollowUp) and complete as directed below for a FOLLOW-UP message or use Enclosure 4.13:	Obtain Enclosure 4.5.A (Nuclear Power Plant Emergency Notification Form, Follow-Up) and complete as directed below for a FOLLOW-UP message or use (WebEOC Notification Form Quick Reference):	Editorial: added title reference and added a dash between follow-up
24.	Enclosure 4.5 Page 1 of 3 Line 3	Verify site is marked as Oconee and confirmation phone number is 864-882-7076.	Verify site is marked as Oconee and confirmation phone number is 864-882-7076.	Editorial: went from a double line of text to a single line of text (no change in language)
25.	Enclosure 4.5 Page 2 of 3 Line 5	If KI has been recommended, mark Box D **Line 5...** If a Keowee Hydro Dam/Dike Condition "A" exists: ☐☐Mark Box B and write "Move residents living downstream of the Keowee Hydro dams to higher ground. ☐☐AND mark Box E and write "Prohibit traffic flow across bridges identified on your inundation maps until the danger has passed."	If KI has been recommended, mark Box D. **Line 5...** If a Keowee Hydro Dam/Dike Condition "A" exists: ☐☐Mark Box B and write "Move residents living downstream of the Keowee Hydro dams to higher ground. ☐☐AND mark Box E and write "Prohibit traffic flow across bridges identified on your inundation maps until the danger has passed."	Editorial: remove italics, not acceptable form of emphasis in procedures writers guide and added a period to the first sentence

#	Page /Section	Current	Proposed Change	Reason
26.	Enclosure 4.5 Page 2 of 3 Note	• Security event • Seismic event • Tornado on site • Hurricane force winds on site • SSF • Fire affecting shared safety related equipment	• Security event • Seismic event • Tornado on site • Hurricane force winds on site • SSF • Fire affecting shared safety related equipment	Editorial: corrected margin of last bullet
27.	Enclosure 4.5 Page 2 of 3 Line 11	Mark or select one (1) unit if event affects one unit or one (1) unit has a higher emergency classification	Mark or select one (1) unit if event affects one unit or one (1) unit has a higher emergency classification.	Editorial: added a period to the end of the sentence
28.	Enclosure 4.5 Page 3 of 3 Line 13	Write "None" if there are no additional remarks.	Write "None" if there are no additional remarks.	Editorial: unbold first parenthesis
29.	Enclosure 4.5 Page 3 of 3 Note 2	Do **NOT** add or change information on the form after it has been approved by the TSC Emergency Coordinator	Do **NOT** add or change information on the form after it has been approved by the TSC Emergency Coordinator.	Editorial: added a period to the end of the sentence
30.	Enclosure 4.6 Page 1 of 1	Obtain Enclosure 4.6.A (Nuclear Power Plant Emergency Notification Form) and complete as directed below for a TERMINATION message or use Enclosure 4.13:	Obtain Enclosure 4.5.A (Nuclear Power Plant Emergency Notification Form) and complete as directed below for a TERMINATION message or use (WebEOC Notification Form Quick Reference):	Editorial: added title reference
31.	Enclosure 4.7 Page 1 of 4 Block		Date: _____ Initial Notification Time: _____ Follow-up Notification Time: ____	Editorial: added date blank at top of block and under each agencies "Initial Notification Time: & Follow-up Notification Time:"
32.	Enclosure 4.7 Page 3 of 4 Block	**Georgia Emergency Management Agency (GEMA) 404-635-7000 or 404-635-7200)** **National Weather Service (NWS) (864-879-1085)**	**Georgia Emergency Management Agency (GEMA 404-635-7000 or 404-635-7200)** **National Weather Service (NWS 864-879-1085)**	Editorial: removed middle parenthesis
33.	Enclosure 4.7 Page 3 of 4	Begin call by saying "You should have received a fax indicating Keowee Hydro Dam/Dike is in condition A or B, or an external flood condition exist for the site, do you have any questions?"	Begin call by saying "You should have received a fax indicating Keowee Hydro Dam/Dike is in condition A or B, or an external flood condition exist for the site, do you have any questions?"	Editorial: indent this block as it is directly related to the instructions above (dam/dike failures)
34.	Enclosure 4.8 Page 2 of 2 10	Alternate TSC	TSC Backup Emergency Response Facility (ERF)	Editorial: changed Alternate to Backup
35.	Enclosure 4.10 Page 1 of 1	Alternate Facility Activated:	Backup Emergency Response Facility (ERF) Facility Activated:	Editorial: changed Alternate to Backup

#	Page /Section	Current	Proposed Change	Reason
36.	Enclosure 4.13 Page 1 of 2 Block 1	Log onto LAN with your ID and Password. Select **DAE**; Search DAE for WebEOC. Click WebEOC. On Login Screen for **Jurisdiction**, select Oconee; for **Position**, select ONS TSC Off-site Communicator; for **Incident**: select appropriate incident and click OK. Enter name in **Name** block of Additional Login Information screen and click OK. Click **EN Form**. Click **Create Draft**.	Select **DAE**; Search DAE for WebEOC. Click WebEOC. On Login Screen for **Position** select ONS TSC Off-site Communicator and for **Incident** select appropriate incident and click OK. Click **EN Form**. Click **Add Emergency Notification**.	Editorial: remove opening sentence, WebEOC 7.5 does not require log-in, jurisdiction or name
37.	Enclosure 4.13 Page 1 of 2 Block 2	**(bottom of EN Form)** Lines 1,3,4,5,6,9,10,11 are required to be correct for Performance Indicator credit.	• The required EN Form fields will have a green background. • Clicking on the "Save Draft" button on the EN Form will close the EN Form and open the Emergency Notification Messages Panel. • For a Termination message, ONLY Lines 1, 3, 10, and 17 are required. • Lines 1, 3, 4, 5, 6, 9, 10, and 11 are required to be correct for Performance Indicator credit.	Editorial: placed all notes into single box at beginning of form
38.	Enclosure 4.13 Page 1 of 2 Line 1	Ensure or Record Message Number (sequentially number messages until event is terminated).	~~Verify~~/**Ensure** Message # is updated (message number is auto-populated sequentially with each new ENF).	Editorial: WebEOC 7.5 auto-populates #
39.	Enclosure 4.13 Page 1 of 2 Line 2	NOTE: Notification Time/Date And Authentication will be auto-populated during message transmission.	**NOTE:** Notification Time/Date and Authentication will be auto-populated during message transmission.	Editorial: moved note from single box to under Line 2 message
40.	Enclosure 4.13 Page 1 of 2 Line 3	▪ Ensure or record appropriate **Site** (i.e. Oconee) ▪ Ensure, Record, or Select appropriate **Confirmation Phone Number**	▪ **Select "Oconee"** with the pull-down menu ▪ **Select** appropriate Confirmation Phone Number with the pull-down menu (e.g. TSC (864)-882-7076)	Editorial: WebEOC 7.5 instructions
41.	Enclosure 4.13 Page 1 of 2 Line 4	Select/Ensure correct **Event Classification:** Select /Ensure correct **EAL #:** (Select/Ensure **EAL Description** matches EAL Number) Contact the OSC Chemistry Manager to verify status of liquid releases(), if release(s) is occurring complete Lines 6 & 7 as directed by Chemistry Mgr.	• Ensure the appropriate **Event Classification** radio button is selected. • Ensure the appropriate **EAL #** from the "Based on EAL" drop-down menu is selected. • Verify **EAL Description** matches EAL Number.	Editorial: WebEOC 7.5 instructions

#	Page /Section	Current	Proposed Change	Reason
42.	Enclosure 4.13 Page 1 of 2 Line 5	**Protective Action Recommendations:** ▪ IF Unusual Event, Alert, or Site Area Emergency, **Select** A **None** (Except for dam failure, see 3rd. bullet) ▪ IF General Emergency, Verify Raddose run has been completed, THEN select **Import Raddose** button at bottom of screen. If Raddose is NOT run, select B **Evacuate** and C **Shelter** then select appropriate zones. If circumstances warrant, Select D **KI** and/or E **Other** as appropriate ▪ **IF** Condition **A/B dam failure** exists, select info in pull down menu by select B **Evacuate** and click on E **Other** for traffic instructions.	**Protective Action Recommendations:** ▪ IF Unusual Event, Alert, or Site Area Emergency, **Select** A **None** (Except for dam failure, see 3rd. bullet) ▪ IF General Emergency, **Select** B **Evacuate** and C **Shelter** then select appropriate zones. o **IF** circumstances warrant, **Select** D **KI** and/or E **Other** as appropriate ▪ **IF** Condition **A/B dam failure** exists, **Select** info in pull down menu by B **Evacuate** and click on E **Other** for traffic instructions.	Editorial: WebEOC 7.5 instructions & URI RASCAL replacement of Raddose dose assessment tool.
43.	Enclosure 4.13 Page 1 of 2 Under Line 6		NOTE: Clicking on the "Import Dose Data Projection Data" button will auto-populate the fields in lines 14 through 16 if a Unified Rascal Interface (URI) dose run has been performed. Clicking on the "Clear Dose Data" button will clear the fields in lines 14-16.	Editorial: WebEOC 7.5 instructions & URI RASCAL replacement of Raddose dose assessment tool.
44.	Enclosure 4.13 Page 1 of 2 Under Line 8	**Meteorological data**: not required on initial notifications but if available and time allows import Met data. Selecting the Import Plant MET/Data button will auto-populate Wind Direction, Wind Speed, Precipitation and Stability Class	NOTE: • Clicking on the "Import Plant/MET Data" will fill in the Meteorological Data fields in line 9 and the unit power if the unit(s) is NOT in shutdown. • Meteorological Data is NOT in required on initial notifications, but if available and time allows, import Met Data.	Editorial: WebEOC 7.5 instructions & URI RASCAL replacement of Raddose dose assessment tool.
45.	Enclosure 4.13 Page 1 of 2 Line 9	**Meteorological Data**: Not required on initial notifications but if available and time allows import Met data by one of the following methods: • Verify Raddose run has been completed, **THEN** select Import Raddose button at bottom screen. • Import Wind Direction and Wind Speed along with Precipitation and Stability Class.	**Meteorological Data:** • Select the "Import Plant /MET Data" button to auto-populate Wind Direction, Wind Speed, Precipitation and Stability Class. • Ensure MET Data is correct.	Editorial: WebEOC 7.5 instructions & URI RASCAL replacement of Raddose dose assessment tool.

#	Page /Section	Current	Proposed Change	Reason
46.	Enclosure 4.13 Page 1 of 2 Line 10	**Select** A for **Declaration** or B for **Termination** as appropriate and enter the time as follows: (Note: For a Termination message, only Lines 1, 3, 10, and 17 need to be completed.) ▪ **Select** the **Get Time/Date** button to acquire the current time and date, **THEN**, adjust as needed.	▪ **Select** A for **Declaration** or B for **Termination** as appropriate. ▪ Enter the time. ▪ **Select** the **Get Date** button to acquire the current time and date and adjust as needed.	Editorial: moved "termination" note to single box to under Line 2 & WebEOC 7.5 instructions
47.	Enclosure 4.13 Page 2 of 2 Line 11	**Affected Units** - **IF** the classification affects more than one unit select or check **All**. **IF** the classification only affects one unit, **Select** appropriate unit.	**Affected Units:** • **IF** the classification affects more than one unit select the "**All**" radio buttons. • **IF** the classification only affects one unit, select the radio button for the affected unit.	Editorial: WebEOC 7.5 instructions
48.	Enclosure 4.13 Page 2 of 2 Line 12	**Unit Status** - **IF** the Unit is Shutdown, record 0% power, THEN record the Shutdown Time/Date. **IF** the Unit is NOT Shutdown , record % power. Enter status for all 3 units.	**Unit Status:** **IF** the affected Unit(s) is Shutdown, • Record "0" in % Power. • Record time of shutdown. • Enter the date of the shutdown. • **Select** the "Get Date" button. **IF** the affected Unit(s) is **NOT** Shutdown, • Click "Import Plant /MET Data" button from field 9. • Ensure correct plant status for the affected unit(s).	Editorial: WebEOC 7.5 instructions
49.	Enclosure 4.13 Page 2 of 2 Line 14-16	**Release Data:** Not required on initial notification but if available and time allows enter information: • Verify Raddose run has been completed, **THEN** select Import Raddose button at bottom screen. • If Raddose data changes THEN review entire form. {3}	**Release Data:** Not required on initial notification but if available and time allows enter information. Select "Import/Dose Projection Data" button from before Line 7 to auto-populate the data in Lines 14 through 16.: • If URI data has changed, review entire form. {3}	Editorial: WebEOC 7.5 instructions
50.	Enclosure 4.13 Page 2 of 2 Note above Line 17		Select the **Save Draft** button to return to the Emergency Notification Messages panel. (remains enabled to edit in draft) If the Approved button is inadvertently selected prior to the end of actions required to complete line 17, the form will be locked, and any edits that must be made or fields to be entered will require the entire form to be recompleted.	Editorial: WebEOC 7.5 instructions

#	Page /Section	Current	Proposed Change	Reason

51.	Enclosure 4.13
	Page 2 of 2
	Line 17
		Approved By: Assure all sections are complete by clicking the **Validate button** at bottom of screen.
		• Enter the **Approver's name** (Emergency Coordinator) in the Approved by block on the screen.
		• Select **appropriate title** from the pull down menu & then click **Get Time/Date** button.
		• Record the name of the Communicator making the call on the **Notified by** line.
		• Select the **Approval button** at the bottom of the form. Ensure correct time when approved.
		• Approval will take you to message list, click on latest number to view form.
		• Hit **"Control R"** to refresh form for others to view latest information.
		• Fax the form by selecting the **Fax button** at the bottom of the screen. Select AT&T sender in display box. Click on Print. Type ~oconee on name line, click on green check mark, then click on send button. (For Dam Failure events fax hard copy to NWS, Georgia agencies using Fax Speed Dial 27).
		• **Print the form** and have the Emergency Coordinator review and sign.
			Approved By:
			▪ Assure all sections are complete by clicking the **Validate** button. (except 17 Approved By)
			▪ Review the EN Form in "Edit" mode with ERO TSC facility personnel for validation (Edit mode will allow for changes to be made during the review process).
			▪ Enter the **Approver's name** (Emergency Coordinator) in the "Approved by" field.
			  o Select the **appropriate title** from the "Title" pull-down menu.
			  o Select the "Get Time" button and adjust as necessary.
			  o Select the "Get Date" button and adjust as necessary.
			▪ **Record** the name of the Communicator making the call on the **Notified by** line.
			▪ **Select** the **"Approve"** button at the bottom of the form.
			(no additional edits can be made once Approved)
				Editorial: WebEOC 7.5 instructions

52.	Enclosure 4.13 Page 2 of 2 NOTE		The Emergency Notification Fax Management panel will open automatically when the "Approve" button is selected on the EN Form Panel.	Editorial: WebEOC 7.5 instructions
53.	Enclosure 4.13 Page 2 of 2 FAX		Fax the EN Form to the State and County Agencies: • Access the appropriate EN Form on the Emergency Notification Management panel. • Verify Fax "Recipients name" list is correct. • Verify the Fax Confirmation Email Address is correct. • Select the "Send Fax" button. • Select "OK".	Editorial: WebEOC 7.5 instructions

#	Page /Section	Current	Proposed Change	Reason
54.	Enclosure 4.13 Page 2 of 2 Manual Approved		**IF** manually faxing (WebEOC is NOT successful) perform the following to obtain hard copy approvals: ▪ From the Emergency Notification Panel, select the correct message and click **View** under the EN Form: ▪ **Obtain** Emergency Coordinator review and signature on the EN Form hard copy. ▪ **Select** the **Edit** button in the Details column to open the EN Form. o Correct any discrepancies identified in EC's review. o Upon review completion and the form is ready for the EC approval signature: **Select** the **View** button in the EN Form column to open a printable EN Form. o **Select** the **Print** button on the EN Form and follow the prompts to open a .pdf file. o **Print** the .pdf file. ▪ **Select** the printer icon or print from the file drop down menu and follow the prompts to print the EN Form. o **Select** the **Return** button on the EN Form to open the Emergency Notification Messages panel	Editorial: WebEOC 7.5 instructions
55.	Enclosure 4.13 Page 2 of 2 Selective Signaling/Manual Faxing		Refer to Enclosure 4.7, Guidelines for Transmitting a Message	Editorial: WebEOC 7.5 instructions
56.	Enclosure 4.14 Page 1 of 1	1. PIP O-06-6511 2. PIP G-07-0127 3. PIP G-09-1159 4. PIP O-11-9459	1. PIP O-06-6511 2. PIP G-07-0127 3. PIP G-09-1159 4. PIP O-11-9459 5. AD-EP-ALL-0102 (WebEOC Maintenance and Administration) 6. AD-EP-ALL-0202 (Emergency Response Offsite Dose Assessment)	7. Editorial: added bullets 5 & 6 to reference new Fleet procedures AD-EP-ALL-0102 & AD-EP-ALL-0202

[Type text]

APPENDIX C. APPLICABILITY DETERMINATION (Rev. 10)

PART I – ACTIVITY DESCRIPTION

DUKE ENERGY CAROLINAS, LLC SITE			UNIT(S)		
☒ Oconee	☐ McGuire	☐ Catawba	☒ Unit 1	☒ Unit 2	☒ Unit 3

ACTIVITY TITLE/DOCUMENT/REVISION: **RP/0/A/1000/015B, Offsite Communications from the Technical Support Center, Rev 002**

ONS-2014-05919

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?	☒ NO	☐ YES	If YES, process as a license amendment per NSD 227.
2.	Quality Assurance Topical?	☒ NO	☐ YES	If YES, seek assistance from Independent Nuclear Oversight.
3.	Security Plans? (See Appendix H)	☒ NO	☐ YES	If YES, process per the Nuclear Security Manual.
4.	Emergency Plan?	☐ NO	☒ YES	If YES, process per the Emergency Planning Functional Area Manual.
5.	Inservice Testing Program Plan?	☒ NO	☐ YES	If YES, process per site IST Program for ASME code compliance and related facility changes.
6.	Inservice Inspection Program Plan?	☒ NO	☐ 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?	☒ NO	☐ YES	If YES, evaluate activity in accordance with NSD 320.
	7a -Utilize Appendix E to address Fire Protection Program Plan Impact.		☒	Check to confirm use of Appendix E Screening Questions.
8.	Regulatory Commitments?	☒ NO	☐ YES	If YES, process per NSD 214.
9.	Code of Federal Regulations?	☒ NO	☐ YES	If YES, contact the Regulatory Affairs group.
10.	Programs and manuals listed in the Administrative Section of the TS?	☒ NO	☐ 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
17.	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. IF YES, process per NSD 220.	☒ NO	☐ YES

PART V – SIGNOFF

(Print Name) Donald A. Grant (Sign) [signature] DATE 12-9-14

Applicability Determination Preparer

Form 703-2. Procedure Change Process Record
(R08-10)

Duke Energy

PROCEDURE CHANGE PROCESS RECORD

(1) ID No. RP/0/A/1000/015B

Revision No. 002 Change No.
Permanent/Restricted to
_____

(2) Station: OCONEE NUCLEAR STATION

(3) Procedure Title: Offsite Communications from the Technical Support Center

(4) Section(s) of Procedure Affected: Pages 2-7, Enclosures 4.1 - 4.13

(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.)*

Revision 002 of RP/0/A/1000/015B consists of the following changes:

- A clarification to the introduction note regarding the procedure is an implementing procedure for the E Plan and as such requires an effectiveness review under 50.54q for any changes.
- Changed "Alternate" to "Backup Emergency Facility (ERF)" per NEI 13-01.
- Many editorial changes made correcting grammatical corrections and other editorial issues.
- Addition of Enclosure 4.13 (WebEOC Notification Form Quick Reference)

(7) Reason for Change:
See attached change matrix

(8) Prepared By* Natalie Harness (Signature) Natalie Harness Date 11/24/2014

(9) Reviewed By* Donald H. Carroll (QR)(KI) Date 12-9-14

Cross-Disciplinary Review By* _____ (QR)(KI) NA DHC Date 12-9-14

Reactivity Mgmt. Review By* _____ (QR) NA DHC Date 12-9-14

Mgmt. Involvement Review By* _____ (Ops. Supt.) NA DHC Date 12-9-14

(10) Additional Reviews

Reviewed By* _____ Date _____

Reviewed By* _____ Date _____

(11) Approved By* Patrick M. Street Date 12/10/14

* *Printed Name and Signature*

§50.54(q) Screening Evaluation Form

Activity Description and References: RP/0/A/1000/015B, Offsite Communications from the Technical Support Center, Rev 002

BLOCK 1

Revision 002 of RP/0/A/1000/015B consists of the following changes:

- A clarification to the introduction note regarding the procedure is an implementing procedure for the E Plan and as such requires an effectiveness review under 50.54q for any changes.
- Changed "Alternate" to "Backup Emergency Facility (ERF)" per NEI 13-01.
- Many editorial changes made correcting grammatical corrections and other editorial issues.
- Addition of Enclosure 4.13 (WebEOC Notification Form Quick Reference)

Activity Scope:

BLOCK 2

☒ The activity is a *change* to the *emergency plan*

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

Change Type:

BLOCK 3

☐ The change is editorial or typographical

☒ The change is not editorial or typographical

Change Type:

BLOCK 4

☐ The change does conform to an activity that has prior approval

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

Planning Standard Impact Determination:

BLOCK 5

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

***Risk Significant Planning Standards**

☐ The proposed activity does not impact a Planning Standard

Commitment Impact Determination:

BLOCK 6

☐ The activity does involve a site specific EP commitment

☒ The activity does not involve a site specific EP commitment

Results:

BLOCK 7

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

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

Preparer Name:	Preparer Signature	Date:
Natalie Harness	Natalie Harness	11/24/14
Reviewer Name:	**Reviewer Signature**	**Date:**
Don Crowl		12-9-14

§50.54(q) Effectiveness Evaluation Form

Activity Description and References: RP/0/A/1000/015B, Offsite Communications from the Technical Support Center, Rev 002

BLOCK 1

Revision 002 of RP/0/A/1000/015B consists of the following changes:

- A clarification to the introduction note regarding the procedure is an implementing procedure for the E Plan and as such requires an effectiveness review under 50.54q for any changes.
- Changed "Alternate" to "Backup Emergency Facility (ERF)" per NEI 13-01.
- Many editorial changes made correcting grammatical corrections and other editorial issues.
- Addition of Enclosure 4.13 (WebEOC Notification Form Quick Reference)

Activity Type:

BLOCK 2

☒ The activity is a *change* to the *emergency plan*

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

Impact and Licensing Basis Determination:

BLOCK 3

Licensing Basis:

- **10CFR50.47 (b)(5):** Procedures have been established for notification, by the licensee, of State and local response organizations and for notification of emergency personnel by all organizations; the content of initial and follow-up 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.
- **10CFR50.47 (b)(6):** Provisions exist for prompt communications among principal response organizations to emergency personnel and to the public.
- **10CFR50.47 (b)(16):** Responsibilities for plan development and review and for distribution of emergency plans are established, and planners are properly trained.
- **10CFR50 Appendix E, D. Notification Procedures:**
  1. Administrative and physical means for notifying local, State, and Federal officials and agencies and agreements reached with these officials and agencies for the prompt notification of the public and for public evacuation or other protective measures, should they become necessary, shall be described. This description shall include identification of the appropriate officials, by title and agency, of the State and local government agencies within the EPZs.
  2. Provisions shall be described for yearly dissemination to the public within the plume exposure pathway EPZ of basic emergency planning information, such as the methods and times required for public notification and the protective actions planned if an accident occurs, general information as to the nature and effects of radiation, and a listing of local broadcast stations that will be used for dissemination of information during an emergency. Signs or other measures shall also be used to disseminate to any transient population within the plume exposure pathway EPZ appropriate information that would be helpful if an accident occurs.

  . A licensee shall have the capability to notify responsible State and local governmental agencies within 15 minutes after declaring an emergency. The licensee shall demonstrate that the appropriate governmental authorities have the capability to make a public alerting and notification decision promptly on being informed by the licensee of an emergency condition. Prior to initial operation greater than 5 percent of rated thermal power of the first reactor at a site, each nuclear power reactor licensee shall demonstrate that administrative and physical means have been established for alerting and providing prompt instructions to the public within the plume exposure pathway EPZ. The design objective of the prompt public alert and notification system shall be to have the capability to essentially complete the initial alerting and initiate notification of the public within the plume exposure pathway EPZ within about 15 minutes.

The use of this alerting and notification capability will range from immediate alerting and notification of the public (within 15 minutes of the time that State and local officials are notified that a situation exists requiring urgent action) to the more likely events where there is substantial time available for the appropriate governmental authorities to make a judgment whether or not to activate the public alert and notification system. The alerting and notification capability shall additionally include administrative and physical means for a backup method of public alerting and notification capable of being used in the event the primary method of alerting and notification is unavailable during an emergency to alert or notify all or portions of the plume exposure pathway EPZ population. The backup method shall have the capability to alert and notify the public within the plume exposure pathway EPZ, but does not need to meet the 15-minute design objective for the primary prompt public alert and notification system. When there is a decision to activate the alert and notification system, the appropriate governmental authorities will determine whether to activate the entire alert and notification system simultaneously or in a graduated or staged manner. The responsibility for activating such a public alert and notification system shall remain with the appropriate governmental authorities.

- **NUREG-0654, Section II. Planning Standards and Evaluation Criteria,**
  - **E. Notification Methods and Procedures,** Procedures have been established for notification, by the licensee of State and local response organizations and for notification of emergency personnel by all response organizations; the content of initial and follow-up 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.
  - **G. Public Education and Information,** Information is made available to the public on a periodic basis on how they will be notified and what their initial actions should be in an emergency (e.g., listening to a local broadcast station and remaining indoors), the principal points of contact with the news media for dissemination of information during an emergency (including the physical location or locations) are established in advance, and procedures for coordinated dissemination of information to the public are established.
  - **P. Responsibility for the Planning Effort: Development, Periodic Review and Distribution of the Emergency Plans,** Responsibilities for plan development and review and for distribution of emergency plans are established, and planners are properly trained.

- **ONS Emergency Plan**
  - **ONS E Plan Section E.3 & E.4, Initial and Follow-up Message Formats,** A single message format has been established that will be used by the Oconee Nuclear Site to properly notify Oconee and Pickens Counties and the South Carolina Emergency Management Division of an emergency situation at the facility. Notification and authentication procedures are in place for all designated agencies.
  - **ONS E Plan Section G, Public Information and Education,** Information will be made available to the public on a yearly basis concerning notification of a nuclear plant emergency and the response that will be required from the public sector.
  - **ONS E Plan Section P, Responsibility for the Planning Effort: Development, Periodic Review and Distribution of the Emergency Plans**, P.7, Implementing Procedures Written procedures will be established, implemented and maintained covering the activities associated with emergency plan implementation. Each procedure and changes thereto, shall be approved by the responsible manager prior to implementation. Implementing procedures are indexed and cross referenced to the section applicable in NUREG 0654. (Figure P-1)

Compliance Evaluation and Conclusion: BLOCK 4

1. Evaluation:
   The proposed revision continues to ensure that the Offsite Communications from the Technical Support Center to support the emergency plan is provided and maintained. Enclosure 4.13, WebEOC Notification Form Quick Reference is an addition to the procedure, as an aid for the user. The ONS E plan was not impacted by the changes proposed in the revision. Therefore all regulations and commitments continue to be met.
   Conclusion:
   The proposed activity ☒ does / ☐ does not continue to comply with the requirements.

BLOCK 5

Evaluation:
As can be seen by the above, compliance with regulations is assured.

The functions of 10CFR50.47b(5) per RG 1.219 are:
Three emergency planning functions have been defined for this planning standard of which one of the three is impacted:
(1) Procedures for notification of State and local governmental agencies are capable of alerting them of the declared emergency within 15 minutes after declaration of an emergency and providing follow-up notifications.
This function was maintained by adding the Enclosure 4.13, WebEOC Notification Form Quick Reference, which is an aid for the Offsite Communicator.

The functions of 10CFR50.47b(6) per RG 1.219 are:
Two emergency planning functions have been defined for this planning standard of which one of the three is impacted:
(2) Coordinated dissemination of public information during emergencies is established.
This function was maintained by adding the Enclosure 4.13, WebEOC Notification Form Quick Reference, which is an aid for the Offsite Communicator.

The functions of 10CFR50.47b(16) per RG 1.219 are:
Two emergency planning functions have been defined for this planning standard of which one of the two is impacted::
(1) Responsibility for emergency plan development and review is established.
This function was maintained by the addition of the WebEOC Notification Form Quick Reference, which is an aid for the Offsite Communicator. Therefore the proposed changes continue to ensure compliance with the regulations and the ONS E Plan.

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

- #1 Enhancement - Added the following note to ensure evaluation for a 10CFR50.54q effectiveness review.
- #2, 3, 4, 6, 7, 10, 12, 14, 16, 17, 18, 19, 20, 22-26 - Editorial changes or corrections (minor)
- #5, 8, 9, 11, 13, 15, 21, 27 Editorial: addition or reference to Enclosure 4.13 (WebEOC Notification Form Quick Reference)
- #28-29 - Reference changes from "alternate" to "backup"

Conclusion:
The change in RP/0/A/1000/015B associated with the additional WebEOC reference and does not reduce the effectiveness.

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

Effectiveness Evaluation Results

BLOCK 6

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

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

Preparer Name: Natalie Harness	Preparer Signature	Date: 11/24/14
Reviewer Name: Don Crowl	Reviewer Signature	Date: 12-9-14
Approver Name: Pat Street	Approver Signature	Date: 12/18/14

Duke Energy Oconee Nuclear Station **Protective Action Recommendations**	Procedure No. **RP/0/A/1000/024**
	Revision No. **003**
Reference Use	Electronic Reference No. **OP009A87**

PERFORMANCE

PDF Format

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

Compared with Control Copy* _____ Date _____

Compared with Control Copy* _____ Date _____

Compared with Control Copy* _____ Date _____

Date(s) Performed	Work Order/Task Number (WO#)

COMPLETION

- ☐ Yes ☐ NA Checklists 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

Procedure Completion Approved* Date
**Printed Name and Signature*

Remarks (*attach additional pages, if necessary*)

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

Printed Date: *12/08/2014*

Enclosure No.: *FULL*

Revision No.: *003*

Procedure No.: *RP/0/A/1000/024*

Protective Action Recommendations

NOTE:
- This procedure is an implementing procedure to the Oconee Nuclear Station Emergency Plan and must be:
  - ◊ Forwarded to Emergency Preparedness 7 days prior to approval.
  - ◊ Reviewed in accordance with 10 CFR 50.54(q) prior to approval.
- For an outside line dial "9", for long distance dial "1".

1. Symptoms

1.1 General Emergency Declared

2. Immediate Action

NOTE: Technical Support Center and Emergency Operations Facility may use SR/0/A/2000/003 (activation of the Emergency Operations Facility), Enclosure 6.4, to determine zones.

_____ _____ 2.1 Refer to Enclosure 4.1, Protective Action Recommendations Flowchart, to determine which sectors to evacuate and to shelter-in-place.
Date/Time Initial

_____ _____ 2.2 Evacuate non-essential personnel from the site.
Date/Time Initial

_____ _____ 2.3 Review wind direction every **15 minutes** to determine if additional downwind zones need to be evacuated.
Date/Time Initial

_____ _____ 2.4 Follow notification requirements to offsite agencies in accordance with RP/0/A/1000/015B (Offsite Communications From The Technical Support Center).
Date/Time Initial

3. Subsequent Action

NOTE: Subsequent Actions will be completed by either the Technical Support Center or the Emergency Operations Facility.

_____ _____ 3.1 Evaluate fuel and containment status (building pressure and/or containment breach).
Date/Time Initial

_____ _____ 3.2 Assess fuel damage. Request Nuclear Engineering in the TSC to provide the assessment.
Date/Time Initial

_____ _____ 3.3 Review evacuation time estimates for the EPZ, Enclosure 4.3 (Evacuation Time Estimates).
Date/Time Initial

CAUTION: Once a zone has been accurately selected for evacuation, it should not be removed.

NOTE:
- Transmission of a change in protective actions **must** begin within **15 minutes** of determination.
- Enclosure 4.1 (Protective Action Recommendations Flowchart) may be used to assess for additional protective actions.

3.4 Make determination if additional protective actions are required:

3.4.1 Change in Meteorological Conditions (wind direction)

_____ _____ A. Additional protective actions as recommended by the TSC Dose Assessment Liaison or EOF Radiological Assessment Manager.
Date/Time Initial

3.4.2 Fuel Damage detected by Monitors

_____ _____ A. Additional protective actions as recommended by the TSC Dose Assessment Liaison or EOF Radiological Assessment Manager.
Date/Time Initial

3.4.3 Potassium Iodide for the General Public

_____ _____ A. Potassium Iodide recommended to the General Public as determined by the TSC Dose Assessment Liaison or EOF Radiation Assessment Manager. {1}
Date/Time Initial

3.5 Determine if any of the sheltered population affected by ground contamination should be evacuated based on information from field monitoring teams. Consult with EOF Radiological Assessment Manager.

_____ _____ 3.5.1 Provide any updated protective action recommendations to offsite agencies.
Date/Time Initial

3.6 Review dose projections with the TSC Dose Assessment Liaison or EOF Radiological Assessment Manager to determine if protective action recommendations may be required beyond the 10 mile EPZ.

_____ _____ 3.6.1 **IF** protective action recommendations are required beyond 10 miles,
Date/Time Initial

THEN notify the State EPD Director, as per RP/0/A/1000/019 (Technical Support Center Emergency Coordinator Procedure), or SR/0/A/2000/003 (Activation of the Emergency Operations Facility) and request that the state consider sheltering/evacuation of the general population located beyond the affected 10 mile EPZ Sectors.

4. Enclosures

4.1 Protective Action Recommendations Flowchart

4.2 Meteorology and PAZ Selection

4.3 Evacuation Time Estimates

4.4 Oconee Nuclear Station Emergency Planning Zones

4.5 References

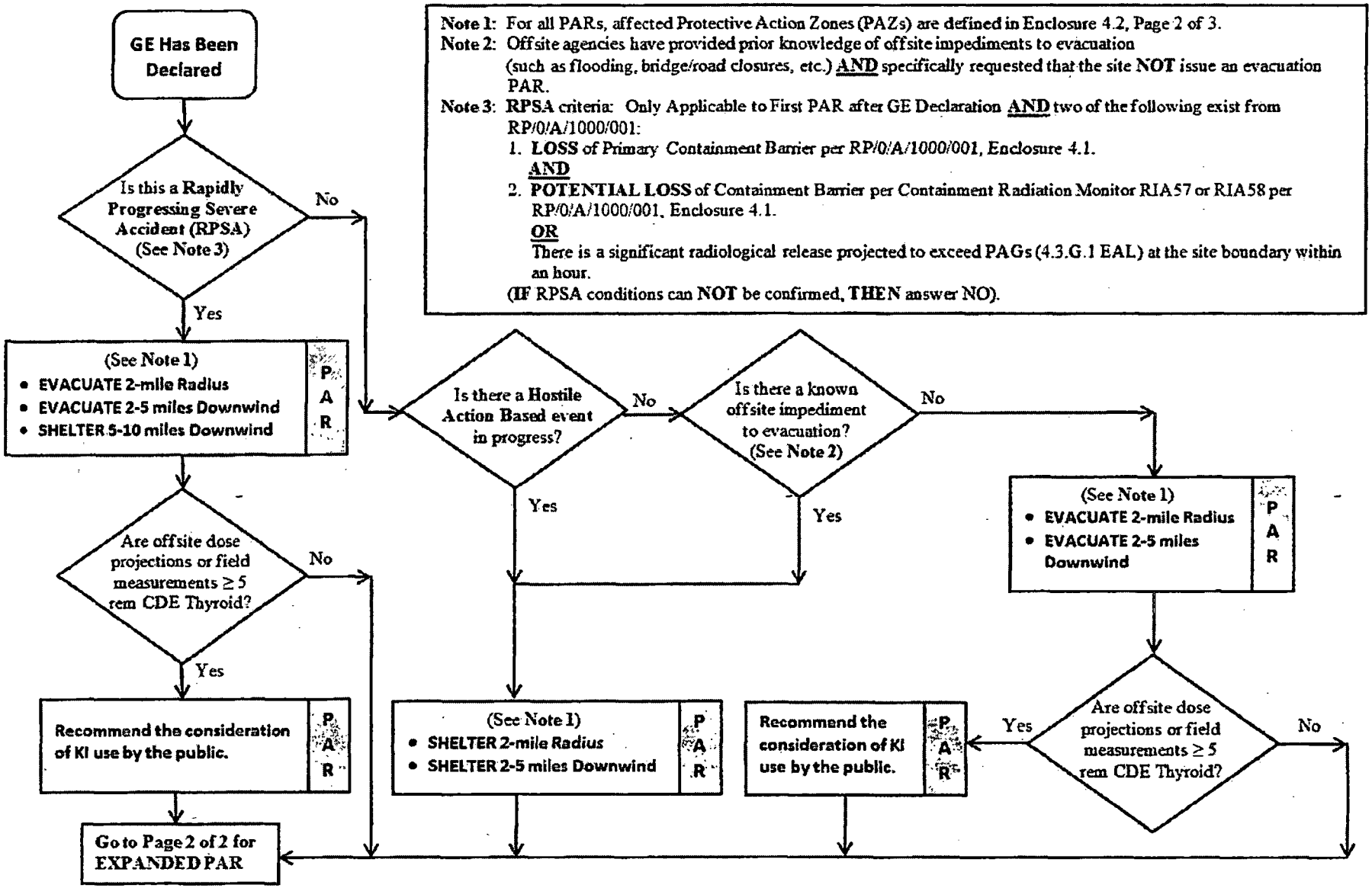
Enclosure 4.1

Protective Action Recommendations Flowchart

INITIAL PAR

Note 1: For all PARs, affected Protective Action Zones (PAZs) are defined in Enclosure 4.2, Page 2 of 3.
Note 2: Offsite agencies have provided prior knowledge of offsite impediments to evacuation (such as flooding, bridge/road closures, etc.) **AND** specifically requested that the site **NOT** issue an evacuation PAR.
Note 3: RPSA criteria: Only Applicable to First PAR after GE Declaration **AND** two of the following exist from RP/0/A/1000/001:
1. **LOSS** of Primary Containment Barrier per RP/0/A/1000/001, Enclosure 4.1.
   AND
2. **POTENTIAL LOSS** of Containment Barrier per Containment Radiation Monitor RIA57 or RIA58 per RP/0/A/1000/001, Enclosure 4.1.
   OR
   There is a significant radiological release projected to exceed PAGs (4.3.G.1 EAL) at the site boundary within an hour.

(IF RPSA conditions can **NOT** be confirmed, **THEN** answer NO).



Enclosure 4.1

Protective Action Recommendations Flowchart

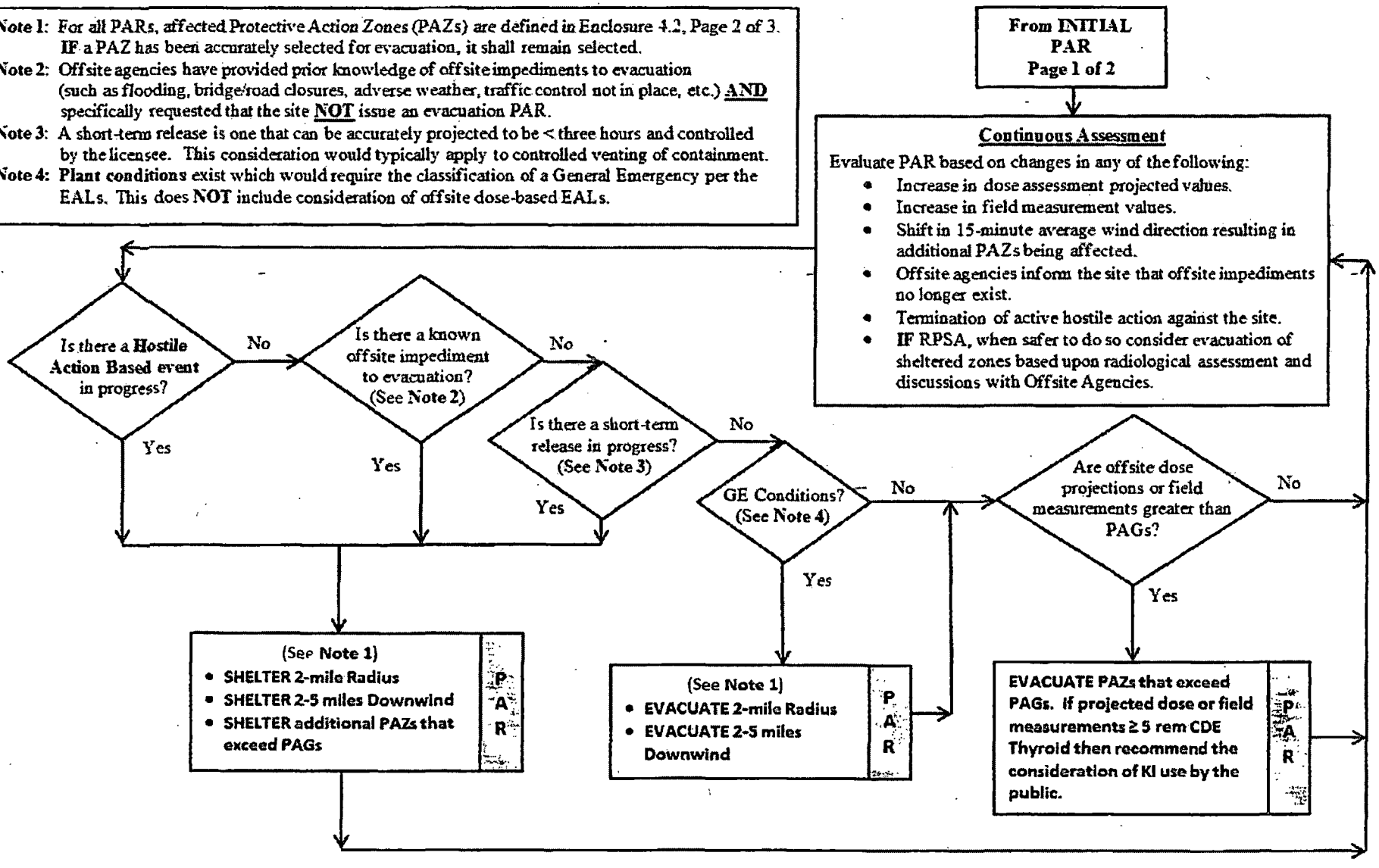
EXPANDED PAR

Note 1: For all PARs, affected Protective Action Zones (PAZs) are defined in Enclosure 4.2, Page 2 of 3. **IF** a PAZ has been accurately selected for evacuation, it shall remain selected.

Note 2: Offsite agencies have provided prior knowledge of offsite impediments to evacuation (such as flooding, bridge/road closures, adverse weather, traffic control not in place, etc.) **AND** specifically requested that the site **NOT** issue an evacuation PAR.

Note 3: A short-term release is one that can be accurately projected to be < three hours and controlled by the licensee. This consideration would typically apply to controlled venting of containment.

Note 4: **Plant conditions** exist which would require the classification of a General Emergency per the EALs. This does **NOT** include consideration of offsite dose-based EALs.



1. Sectors To Be Potentially Evacuated

☐ 1.1 Determine the meteorological instrumentation to use based on time of day. All meteorology data obtained from the onsite met tower or river tower must be a 15 minute average. National Weather Service data is a standard observation and is **NOT** a 15 minute average.

NOTE: If necessary, obtain needed data from one of the following sources in order of sequence:
A. Oconee SDS
B. Duke Meteorologist (704-382-0139 or 704-373-7896)
C. National Weather Service in Greer, S.C. (864-879-1085 or 800-268-7785)

Time of Day Conditions	Met Parameter	First Priority	Second Priority	Third Priority	Fourth Priority
1000 - 1600	Wind Direction	60M reading	10M reading	River Tower	NWS
1600 – 1000 and River Wind between 210° and 360° or 0° and 70°	Wind Direction	60M reading	10M reading	River Tower	NWS
1600 – 1000 and River Wind between 70° and 210°	Wind Direction	River Tower	60M reading	NWS	

_____ Record Meteorological Parameters to be used to determine PARs:

Wind Direction _____

☐ 1.2 Determine PARs based on the 15-minute average wind direction as determined in previous step:

Wind Direction	Protective Action Zones 0-2 miles;	2-5 miles;	5-10 miles
14.1°-27°	A0,	C1, D1, E1,	C2, D2, E2
27.1°-42°	A0,	C1, D1, E1,	D2, E2
42.1°-66°	A0,	D1, E1,	D2, E2
66.1°-85°	A0,	D1, E1,	D2, E2, F2
85.1°-104°	A0,	D1, E1, F1,	D2, E2, F2
104.1°-129°	A0,	E1, F1,	E2, F2
129.1°-156°	A0,	A1, E1, F1,	A2, E2, F2
156.1°-175°	A0,	A1, E1, F1,	A2, F2
175.1°-181°	A0,	A1, F1,	A2, F2
181.1°-219°	A0,	A1, B1, F1,	A2, B2, F2
219.1°-255°	A0,	A1, B1,	A2, B2,
255.1°-271°	A0,	A1, B1, C1,	A2, B2, C2
271.1°-297°	A0,	B1, C1,	B2, C2
297.1°-312°	A0,	B1, C1,	B2, C2, D2
312.1°-345°	A0,	B1, C1, D1,	B2, C2, D2
345.1°-14°	A0,	C1, D1,	C2, D2

1.3 Check the appropriate blocks below for the appropriate zones to evacuate or to shelter.

Date/Time __________

PAZ Selection for:_____ Info Only _____ General Emergency_____ General Emergency Upgrade

	PICKENS COUNTY							OCONEE COUNTY						
	0-2 miles	2-5 miles			5-10 miles			0-2 miles	2-5 miles			5-10 miles		
	A0	A1	B1	C1	A2	B2	C2	A0	D1	E1	F1	D2	E2	F2
EVACUATE														
SHELTER														

Date/Time __________

PAZ Selection for:_____ Info Only _____ General Emergency_____ General Emergency Upgrade

	PICKENS COUNTY							OCONEE COUNTY						
	0-2 miles	2-5 miles			5-10 miles			0-2 miles	2-5 miles			5-10 miles		
	A0	A1	B1	C1	A2	B2	C2	A0	D1	E1	F1	D2	E2	F2
EVACUATE														
SHELTER														

Date/Time __________

PAZ Selection for:_____ Info Only _____ General Emergency_____ General Emergency Upgrade

	PICKENS COUNTY							OCONEE COUNTY						
	0-2 miles	2-5 miles			5-10 miles			0-2 miles	2-5 miles			5-10 miles		
	A0	A1	B1	C1	A2	B2	C2	A0	D1	E1	F1	D2	E2	F2
EVACUATE														
SHELTER														

Enclosure 4.3

Evacuation Time Estimates (Time to Clear 90%)

	Summer		Summer		Summer	Winter			Winter			Winter	Winter	Summer
	Midweek		Weekend		Midweek Weekend	Midweek			Weekend			Midweek Weekend	Weekend	Midweek
Scenario:	(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)	(11)	(12)	(13)	(14)
Region (Impacted PAZs)	Midday		Midday		Evening	Midday			Midday			Evening	Midday	Midday
	Good Weather	Rain	Good Weather	Rain	Good Weather	Good Weather	Rain	Snow	Good Weather	Rain	Snow	Good Weather	Special Event[1]	Roadway Impact[2]
Entire 2-Mile Region, 5-Mile Region, and EPZ														
R01 (A-0)	1:35	1:35	1:30	1:30	1:45	1:35	1:40	2:25	1:35	1:35	2:35	1:45	1:25	1:35
R02 (A-0, A-1, B-1, C-1, D-1, E-1, F-1)	2:10	2:10	2:00	2:00	2:05	2:15	2:15	3:20	2:05	2:05	3:10	2:05	1:55	2:10
R03 (All PAZs)	3:50	4:00	3:30	3:50	3:15	3:50	4:00	4:45	3:30	3:40	4:15	3:15	6:05	4:15
2-Mile Ring and Keyhole to 5 Miles														
R04 (A-0, A-1, F-1)	2:05	2:05	1:50	1:50	2:05	2:05	2:10	3:10	1:55	1:55	3:05	2:05	1:45	2:05
R05 (A-0, A-1, B-1, F-1)	2:10	2:10	2:00	2:00	2:05	2:10	2:15	3:20	2:00	2:05	3:10	2:05	1:55	2:10
R06 (A-0, A-1, B-1)	2:05	2:05	1:55	1:55	2:05	2:10	2:10	3:10	2:00	2:00	3:05	2:05	1:45	2:05
R07 (A-0, B-1, C-1)	2:05	2:05	1:55	1:55	2:05	2:10	2:10	3:10	2:00	2:00	3:10	2:05	1:50	2:05
R08 (A-0, C-1, D-1)	1:50	1:50	1:45	1:45	2:00	1:55	1:55	2:55	1:50	1:50	3:00	2:00	1:35	1:50
R09 (A-0, D-1, E-1)	1:55	1:55	1:50	1:50	2:00	2:00	2:00	3:00	1:50	1:50	3:00	2:00	1:40	1:55
R10 (A-0, E-1)	1:50	1:50	1:45	1:50	2:00	1:55	1:55	2:55	1:45	1:45	2:55	2:00	1:35	1:50
R11 (A-0, E-1, F-1)	2:05	2:05	1:50	1:50	2:05	2:10	2:10	3:10	1:55	1:55	3:05	2:05	1:45	2:05

[1] Special Event - Clemson football game in progress
[2] Roadway Impact - Lane closure on US 123 EB

Enclosure 4.3

Evacuation Time Estimates (Time to Clear 90%)

	Summer		Summer		Summer	Winter			Winter			Winter	Winter	Summer
	Midweek		Weekend		Midweek Weekend	Midweek			Weekend			Midweek Weekend	Weekend	Midweek
Scenario:	(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)	(11)	(12)	(13)	(14)
Region (Impacted PAZs)	Midday		Midday		Evening	Midday			Midday			Evening	Midday	Midday
	Good Weather	Rain	Good Weather	Rain	Good Weather	Good Weather	Rain	Snow	Good Weather	Rain	Snow	Good Weather	Special Event[1]	Roadway Impact[2]
5-Mile Ring and Keyhole to EPZ Boundary														
R12 (A-0, A-1, B-1, C-1, D-1, E-1, F-1, A-2, F-2)	2:20	2:20	2:20	2:25	2:15	2:20	2:20	3:30	2:15	2:20	3:20	2:15	2:05	2:20
R13 (A-0, A-1, B-1, C-1, D-1, E-1, F-1, A-2, B-2)	2:20	2:20	2:10	2:10	2:10	2:20	2:20	3:30	2:10	2:15	3:20	2:10	2:00	2:20
R14 (A-0, A-1, B-1, C-1, D-1, E-1, F-1, B-2, C-2)	2:55	3:10	2:40	2:50	2:30	2:55	3:10	3:40	2:40	2:50	3:20	2:30	5:15	3:40
R15 (A-0, A-1, B-1, C-1, D-1, E-1, F-1, B-2, C-2, D-2)	3:30	3:50	3:20	3:25	3:00	3:35	3:50	4:25	3:15	3:25	4:00	3:00	6:00	4:10
R16 (A-0, A-1, B-1, C-1, D-1, E-1, F-1, C-2, D-2)	3:25	3:45	3:15	3:25	3:00	3:25	3:45	4:20	3:10	3:25	3:55	3:00	5:55	4:00
R17 (A-0, A-1, B-1, C-1, D-1, E-1, F-1, D-2, E-2)	3:25	3:40	3:10	3:25	2:45	3:20	3:35	4:05	3:05	3:20	3:50	2:45	3:20	3:30
R18 (A-0, A-1, B-1, C-1, D-1, E-1, F-1, E-2, F-2)	2:55	3:05	2:55	3:05	2:45	2:50	3:10	3:40	2:50	2:55	3:35	2:45	2:15	2:55
Staged Evacuation - 2-Mile Ring and Keyhole to 5 Miles														
R19 (A-0, A-1, B-1, C-1, D-1, E-1, F-1)	2:10	2:15	2:10	2:10	2:10	2:15	2:15	3:20	2:10	2:10	3:20	2:10	2:00	2:10
R20 (A-0, A-1, F-1)	2:10	2:15	2:10	2:10	2:10	2:10	2:15	3:20	2:10	2:10	3:20	2:10	2:00	2:10

[1] Special Event - Clemson football game in progress
[2] Roadway Impact - Lane closure on US 123 EB

Enclosure 4.3

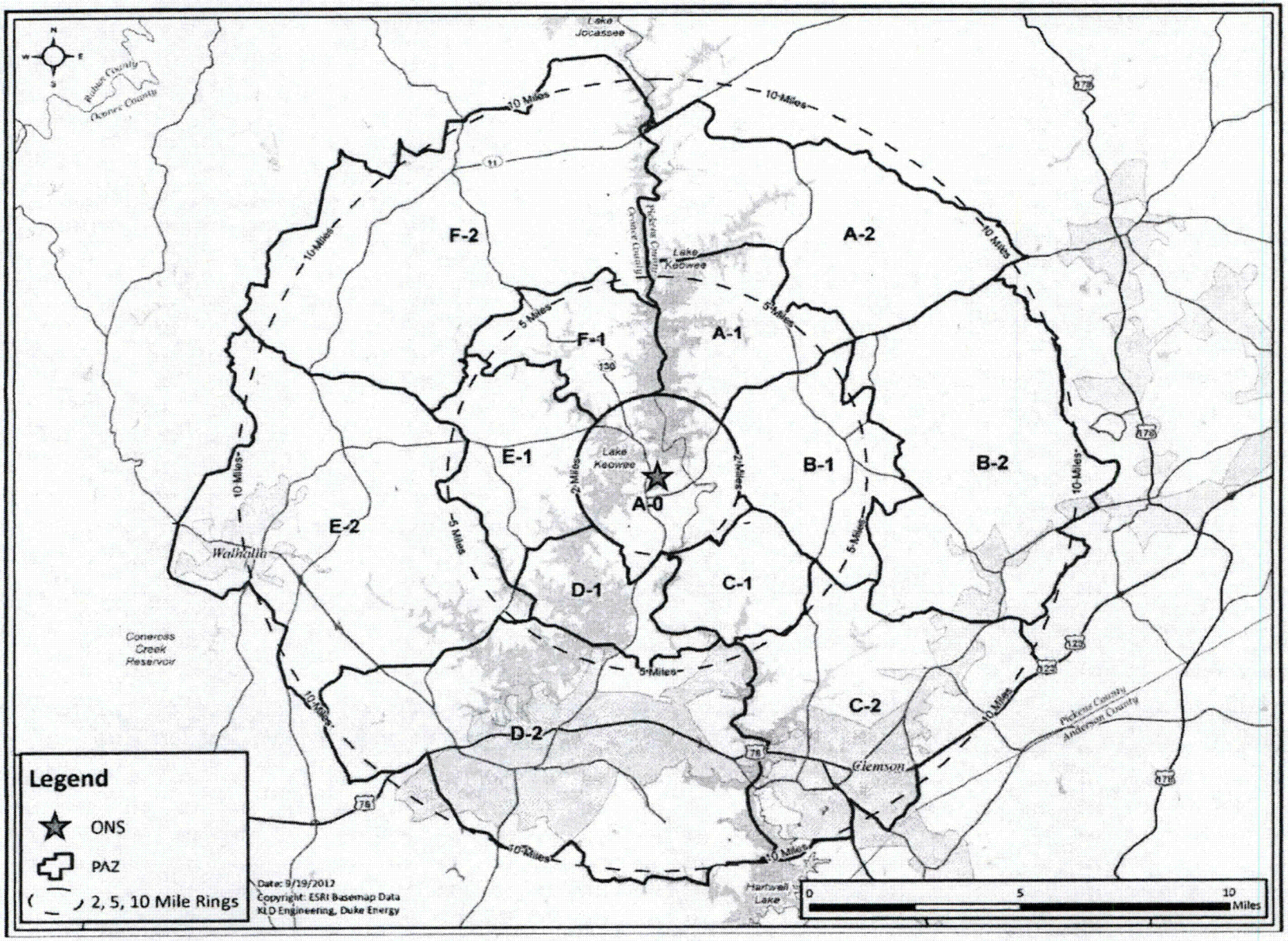
Evacuation Time Estimates (Time to Clear 90%)

	Summer		Summer		Summer	Winter			Winter			Winter	Winter	Summer
	Midweek		Weekend		Midweek Weekend	Midweek			Weekend			Midweek Weekend	Weekend	Midweek
Scenario:	(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)	(11)	(12)	(13)	(14)
Region (Impacted PAZs)	Midday		Midday		Evening	Midday			Midday			Evening	Midday	Midday
	Good Weather	Rain	Good Weather	Rain	Good Weather	Good Weather	Rain	Snow	Good Weather	Rain	Snow	Good Weather	Special Event[1]	Roadway Impact[2]
R21 (A-0, A-1, B-1, F-1)	2:10	2:15	2:10	2:10	2:10	2:15	2:15	3:20	2:10	2:10	3:20	2:10	2:00	:10
R22 (A-0, A-1, B-1)	2:05	2:05	2:00	2:05	2:05	2:10	2:10	3:10	2:05	2:05	3:10	2:05	1:55	2:05
R23 (A-0, B-1, C-1)	2:05	2:10	2:05	2:05	2:10	2:10	2:10	3:15	2:05	2:05	3:15	2:10	1:55	2:05
R24 (A-0, C-1, D-1)	1:50	1:50	1:50	1:50	2:00	1:55	1:55	2:55	1:50	1:50	3:00	2:00	1:50	1:50
R25 (A-0, D-1, E-1)	2:05	2:05	2:05	2:05	2:10	2:05	2:05	3:05	2:05	2:10	3:10	2:10	1:55	2:05
R26 (A-0, E-1)	2:05	2:05	2:05	2:05	2:10	2:05	2:05	3:05	2:05	2:05	3:05	2:10	1:55	2:05
R27 (A-0, E-1, F-1)	2:10	2:15	2:10	2:10	2:10	2:10	2:15	3:20	2:10	2:10	3:20	2:10	2:00	2:10

[1] Special Event - Clemson football game in progress
[2] Roadway Impact - Lane closure on US 123 EB

Enclosure 4.4

Oconee Nuclear Station
Emergency Planning Zones



1. References

1. O-04-0284
2. O-05-07899
3. G-13-01347
4. ONS-ETE-12142012-000

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/1000/024__
2. Revision No.: 3 _
3. Change No.: __ **Note:** if this package is for a change, replace hyphen with a letter.
4. Procedure Title: Protective Action Recommendations _
5. For changes only, enter procedure sections affected: Section #2 "Immediate Actions", Section #3 "Subsequent Actions", Enclosure 4.1"Protective Action Recommendations Flowchart", Enclosure 4.2 " Sections to be Potentially Evacuated & Enclosure 4.5 "Condition 2 Failed Fuel Determination by RIA Containment Readings".__
6. Prepared By: Mike Stephens __
7. Preparation Date: 12-08-14 __
8. PCR Numbers Included in Revision: ONS-

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.

Form 703-1. Procedure Process Record (PPR)

(R08-10)

Duke Energy

PROCEDURE PROCESS RECORD

(1) ID No. RP/0/A/1000/024__

Revision No. 3

PREPARATION

(2) Station OCONEE NUCLEAR STATION

(3) Procedure Title Protective Action Recommendations

(4) Prepared By* Mike Stephens (Signature) Mike Stephens Date 12-08-14

(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* Darren A. Crewl (QR)(KI) Date 12-8-14

Cross-Disciplinary Review By* _____ (QR)(KI) NA Date 12-8-14

Reactivity Mgmt Review By* _____ (QR) NA Date 12-8-14

Mgmt Involvement Review By* _____ (Ops. Supt.) NA Date 12-8-14

(7) Additional Reviews

Reviewed By* Doug Berkshire Doug Berkshire Date 12-8-2014

Reviewed By* _____ Date _____

(8) Approved By* Pamela H Sasser Date 12/10/14

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)*

* *Printed Name and Signature*

Procedure Title: Protective Action Recommendations _

SUMMARY OF CHANGES: (DESCRIPTION AND REASON)

General Changes

This change is being made to adopt Protective Action Recommendations (PARs) guidance as provided in NUREG-0654, Supplement 3, "Guidance for Protective Action Strategies" for compliance with 10 CFR 50, Appendix E, Section IV.3. This revision provides Protective Action Recommendations (PAR) based upon three new scenarios: Rapidly Progressing Severe Accident (RPSA), Hostile Action and Impediments to Evacuation during a General Emergency (GE). A new recommendation is to Shelter instead of immediate evacuation for given times and type of events. RPSA only applies to first PAR on initial General Emergency declaration. RPSA is based upon the following criterion: loss of containment barrier per EALs with a potential loss of containment barrier per containment radiation monitors per EALs OR projected radiological release at site boundary to exceed PAGs (EAL 4.3.G.1) within one hour.

PCR Numbers Incorporated

ONS-

Enclosure

Section(s) of Procedure Affected:

Section #2 "Immediate Actions", Section #3 "Subsequent Actions", Enclosure 4.1"Protective Action Recommendations Flowchart", Enclosure 4.2 " Sections to be Potentially Evacuated & Enclosure 4.5 "Condition 2 Failed Fuel Determination by RIA Containment Readings".__

[Type text]

APPENDIX C. APPLICABILITY DETERMINATION (Rev. 10)

PART I – ACTIVITY DESCRIPTION

DUKE ENERGY CAROLINAS, LLC SITE			UNIT(S)		
☒ Oconee	☐ McGuire	☐ Catawba	☒ Unit 1	☒ Unit 2	☒ Unit 3

ACTIVITY TITLE/DOCUMENT/REVISION: **RP/0/A/1000/024 Rev. 003**

Protective Action Recommendations

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?	☒ NO	☐ YES	If YES, process as a license amendment per NSD 227.
2.	Quality Assurance Topical?	☒ NO	☐ YES	If YES, seek assistance from Independent Nuclear Oversight.
3.	Security Plans? (See Appendix H)	☒ NO	☐ YES	If YES, process per the Nuclear Security Manual.
4.	Emergency Plan?	☐ NO	☒ YES	If YES, process per the Emergency Planning Functional Area Manual.
5.	Inservice Testing Program Plan?	☒ NO	☐ YES	If YES, process per site IST Program for ASME code compliance and related facility changes.
6.	Inservice Inspection Program Plan?	☒ NO	☐ 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?	☒ NO	☐ YES	If YES, evaluate activity in accordance with NSD 320.
	7a -Utilize Appendix E to address Fire Protection Program Plan Impact.		☒	Check to confirm use of Appendix E Screening Questions.
8.	Regulatory Commitments?	☒ NO	☐ YES	If YES, process per NSD 214.
9.	Code of Federal Regulations?	☒ NO	☐ YES	If YES, contact the Regulatory Affairs group.
10.	Programs and manuals listed in the Administrative Section of the TS?	☒ NO	☐ 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
17.	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. IF YES, process per NSD 220.	☒ NO	☐ YES

PART V – SIGNOFF

(Print Name) Donald A. Cerrel (Sign) [signature] DATE 12-8-14

Applicability Determination Preparer

Form 703-2. Procedure Change Process Record
(R08-10)

Duke Energy

PROCEDURE CHANGE PROCESS RECORD

(1) ID No.RP/0/A/1000/024__

Revision No. 3 _ Change No.
Permanent/Restricted to
_____

(2) Station: OCONEE NUCLEAR STATION

(3) Procedure Title: Protective Action Recommendations _

(4) Section(s) of Procedure Affected: Section #2 "Immediate Actions", Section #3 "Subsequent Actions", Enclosure 4.1"Protective Action Recommendations Flowchart", Enclosure 4.2 " Sections to be Potentially Evacuated & Enclosure 4.5 "Condition 2 Failed Fuel Determination by RIA Containment Readings"._

(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.)*
This document change is in response to 75771 Federal Register / Vol. 76, No. 233 / Monday, December 5, 2011 / Rules and Regulations where the U.S. Nuclear Regulatory Commission (NRC) issued Supplement 3, "Guidance for Protective Action Strategies," to NUREG–0654/FEMA–REP–1, Revision 1, "Criteria for Preparation and Evaluation of Radiological Emergency Response Plans and Preparedness in Support of Nuclear Power Plants."

(7) Reason for Change:

This change is being made to adopt Protective Action Recommendations (PARs) guidance as provided in NUREG-0654, Supplement 3, "Guidance for Protective Action Strategies" for compliance with 10 CFR 50, Appendix E, Section IV.3.

(8) Prepared By* Mike Stephens (Signature) Mike Stephens Date 12-08-14

(9) Reviewed By* Donald A. Carroll (QR)(KI) Date 12-8-14

Cross-Disciplinary Review By* _____ (QR)(KI) NA DAC Date 12-8-14

Reactivity Mgmt. Review By* _____ (QR) NA DAC Date 12-8-14

Mgmt. Involvement Review By* _____ (Ops. Supt.) NA DAC Date 12-8-14

(10) Additional Reviews

Reviewed By* _____ Date _____

Reviewed By* _____ Date _____

(11) Approved By* Patrick M Sturgis Date 12/10/14

* *Printed Name and Signature*

Attachment to 50.54(q)

RP/0/A/1000/024, Rev 003, Protective Action Recommendations

Change #	Section, page	Current wording	Proposed wording	Reason for change
1	Page 2 of 4, 1st note		Changes to correct typos	Editorial
2	Page 2 of 4, 2nd note	***may use HP/0/B/1009/018 (Offsite Dose Projections) to determine sectors.	***may use SR/0/A/2000/003 (Activation of the Emergency Operation Facility), Enclosure 6.4, to determine zones.	HP/0/B/1009/018 (Offsite Dose Projections) is being superseded by AD-EP-ALL-0202, "Emergency Response Offsite Dose Assessment"
3	Page 2 of 4, step 2.3	***wind direction and wind speed****downwind sectors***	***wind direction*** downwind zones.	Wind speed dependence on the PARs was removed from the DEC PAR flowcharts to be consistent with NUREG-0654, Supplement 3, methodology and to be consistent with the rest of the industry (including the DEP sites).
4	Page 3 0f 4,	***(wind speed and direction)***	***wind direction***	Wind speed dependence on the PARs was removed from the DEC PAR flowcharts to be consistent with NUREG-0654, Supplement 3, methodology and to be consistent with the rest of the industry (including the DEP sites).
5	Page 3 of 4, Steps 3.4.1, 2 & 3	***Manager utilizing HP/0/B/1009/018 (Offsite Dose Projections).	***Manager.	Deleted reference to HP/0/B/1009/018. HP/0/B/1009/018 (Offsite Dose Projections) is being superseded by AD-EP-ALL-0202, "Emergency Response Offsite Dose Assessment"
6	Page 4 of 4, step 3.4.4	Severe core damage****	Delete step 3.4.4	The new PARs no longer include the evacuate 5-miles around and 5-10 miles downwind when > gap activity. That was replaced by the Rapidly Progressing Severe Accident (RPSA).
7	Page 4 of 4, Step 4 Enclosure 4.2	Sectors To Be Potentially Evaluated	Deleted "Sectors to Be Potentially Evacuated" and re-named "Meteorology and PAZ Selection"	The new PARs no longer include the evacuate 5-miles around and 5-10 miles downwind when > gap activity. That was replaced by the Rapidly Progressing Severe Accident (RPSA).

8	Page 4 of 4, Step 4 Enclosure 4.2	Condition 2 Failed Fuel Determination by RIA Containment Monitor Readings	Deleted " Condition 2 Failed Fuel Determination by RIA Containment Monitor Readings"	The new PARs no longer include the evacuate 5-miles around and 5-10 miles downwind when >gap activity. That was replaced by the Rapidly Progressing Severe Accident (RPSA).
9	Page 4 of 4, Step 4 Enclosure 4.5	N/A	N/A	Editorial, Reference re-numbered due to deleting original enclosure 4.5.
10	Enclosure 4.1	PAR Flowchart.	Delete original Enclosure 4.1 and replaced with new Enclosure 4.1 Protective Action Recommendations Flowchart.	Flow chart replaced to address Rapidly Progressing Accident (RPSA) and add expanded flowchart to address Hostile Action based (HAB). The new PARs no longer include the evacuate 5-miles around and 5-10 miles downwind when > gap activity.
11	Enclosure 4.2	Sectors To Be Potentially Selected	Change enclosure title to "Meteorology and PAZ Selection". Delete original Enclosure 4.2 and replaced with new Enclosure 4.2 "Meteorology and PAZ Selection".	Flow chart replaced to address Rapidly Progressing Accident (RPSA) and add expanded flowchart to address Hostile Action based (HAB). The new PARs no longer include the evacuate 5-miles around and 5-10 miles downwind when > gap activity.
12	Enclosure 4.2 step # 1.	Sectors To Be Potentially Selected	Changed to read" Protective Action Zones (PAZs) to be Potentially Sheltered or Evacuated. Remove all reference to wind speed.	Enclosure replaced: PARS are no longer wind speed dependent. Wind speed dependence on the PARs was removed from the DEC PAR flowcharts to be consistent with NUREG-0654, Supplement 3, methodology and to be consistent with the rest of the industry (including the DEP sites).
13	Enclosure 4.2 step # 1.3	Check the appropriate****. All sectors not evacuated must be sheltered.	Check the appropriate blocks below for the appropriate zones to evacuate or shelter. The county PAZ tables were taken from HP/0/B/1009/018 (Off Site Dose Projections).	The county PAZ tables were taken from HP/0/B/1009/018 (Off Site Dose Projections) Enclosure 5.6 Tables.
14	Enclosure 4.5	Condition 2 Failed Fuel Determination by RIA Containment Monitor Readings	Deleted " Condition 2 Failed Fuel Determination by RIA Containment Monitor Readings" and changed to Oconee Nuclear Station Emergency Planning Zones. Enclosure number changed to 4.4. (See change 15).	The new PARs no longer include the evacuate 5-miles around and 5-10 miles downwind when >gap activity. That was replaced by the Rapidly Progressing Severe Accident (RPSA).

15	Enclosure 4.6	Enclosure 4.6	Changed to Enclosure 4.5	Changed enclosure number due to deleting " Condition 2 Failed Fuel Determination by RIA Containment Monitor Readings" enclosure.

§50.54(q) Screening Evaluation Form

Activity Description and References: RP/0/A/1000/024 (Protective Action Recommendations) BLOCK 1

Activity Scope: BLOCK 2

☐ The activity is a *change* to the *emergency plan*

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

Change Type: BLOCK 3

☐ The change is editorial or typographical

☒ The change is not editorial or typographical

Change Type: BLOCK 4

☐ The change does conform to an activity that has prior approval

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

Planning Standard Impact Determination: BLOCK 5

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

***Risk Significant Planning Standards**

☐ The proposed activity does not impact a Planning Standard

Commitment Impact Determination: BLOCK 6

☐ The activity does involve a site specific EP commitment

Record the commitment or commitment reference: _____

☒ The activity does not involve a site specific EP commitment

Results: BLOCK 7

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

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

Preparer Name:	Preparer Signature	Date:
Mike Stephens	Mike Stephens	12-08-2014

Reviewer Name: Don Crowl	Reviewer Signature	Date: 12-8-14
Approver Name: Pat Street	Approver Signature	Date: 12/10/14

Revision 12

§50.54(q) Effectiveness Evaluation Form

Activity Description and References: RP/0/A/1000/024 (Protective Action Recommendations) Revision 003 BLOCK 1

This document change is in response to 75771 Federal Register / Vol. 76, No. 233 / Monday, December 5, 2011 / Rules and Regulations where the U.S. Nuclear Regulatory Commission (NRC) issued Supplement 3, "Guidance for Protective Action Strategies," to NUREG–0654/FEMA–REP–1, Revision 1, "Criteria for Preparation and Evaluation of Radiological Emergency Response Plans and Preparedness in Support of Nuclear Power Plants." NUREG-0654, Supplement 3 provides guidance for addressing new EP requirements for nuclear power plants based on changes to EP regulations in 10 CFR 50.47 and Appendix E to Part 50 in the November 23, 2011, final rule. Specifically, the guidance of Supplement 3 provides an acceptable method to comply with Appendix E to Part 50, Title 10 of the Code of Federal Regulations (10 CFR) Section IV, paragraph 3 in the use of evacuation time estimates in the formulation of protective action recommendations (PARs) for the plume exposure emergency planning zone, and provides guidance for the provisions of 10 CFR 50.47(b)(10) in the development of a range of PARs.

This change is being made to adopt Protective Action Recommendations (PARs) guidance as provided in NUREG-0654, Supplement 3, "Guidance for Protective Action Strategies" for compliance with 10 CFR 50, Appendix E, Section IV.3. This revision provides Protective Action Recommendations (PAR) based upon three new scenarios: Rapidly Progressing Severe Accident (RPSA), Hostile Action and Impediments to Evacuation during a General Emergency (GE). A new recommendation is to Shelter instead of immediate evacuation for given times and type of events. RPSA only applies to first PAR on initial General Emergency declaration. RPSA is based upon the following criterion: loss of containment barrier per EALs with a potential loss of containment barrier per containment radiation monitors per EALs OR projected radiological release at site boundary to exceed PAGs (EAL 4.3.G.1) within one hour.

The document change revised Enclosures 4.1 and 4.2. Enclosure 4.1(Protective Action Recommendations) contains the following initial PARs:

- If event is a Rapidly Progressing Severe Accident (RPSA), then the PARs are Evacuate 2 mile radius, Evacuate 2 - 5 miles downwind and Shelter 5 - 10 miles downwind.
- If event is a Hostile Action, then the PARs are Shelter 2 mile radius and Shelter 2 - 5 miles downwind.
- If there is a known offsite impediment to evacuation, then the PARs are Shelter 2 mile radius and Shelter 2 - 5 miles downwind.
- If any other event has generated a General Emergency, then the PARs are evacuate 2 mile radius and evacuate 2 - 5 miles downwind.
- In the case of a RPSA or any other event has generated a General Emergency, if offsite dose projections or field measurements are greater than or equal to 5 Rem CDE Thyroid, recommend the consideration of use of KI by the public.

The enclosure includes the following expanded PARs:

- If event is a Hostile Action, a known offsite impediment to evacuation, or a short term release is in progress, then the PARs are Shelter 2 mile radius, Shelter 2 - 5 miles downwind and Shelter additional zones that exceed PAGs.
- If General Emergency conditions exist, then the PARs are evacuate 2 mile radius and evacuate 2 - 5 miles downwind.
- If offsite dose projections of field measurements are greater than PAGs, Evacuate zones that exceed PAGs.
- If offsite dose projections of field measurements are greater than or equal to 5 Rem CDE Thyroid, recommend the consideration of use of KI by the public.

The document change DELETED the following PARs as compared to the previous revision;

- If containment radiation level exceeds limits in table (100% gap activity), Evacuate 5 mile radius and 5 - 10 miles downwind.
- If wind speed less than 5 mph, Evacuate 5 mile radius.
- Recommendation to Shelter all zones not evacuated for any PAR.

Enclosure 4.2 provides the Protective Action Recommendations and tables for Protective Action Zones for the 2 mile radius, 2 - 5 miles downwind, and 5 - 10 miles downwind based on wind direction.

Activity Type: BLOCK 2

☐ The activity is a *change* to the *emergency plan*

☒ The activity affects implementation of the *emergency plan*, but is not a *change* to the *emergency plan* - This is a change to an Emergency Plan implementing procedure. The changes to Section J of the Oconee Emergency Plan were evaluated separately.

Impact and Licensing Basis Determination: BLOCK 3

Licensing Basis:

ONS Emergency Plan, Section J.7 Protective Action Recommendations

The Emergency Coordinator (Operations Shift Manager or Station Manager) or the EOF Director (depending on the facility activation) will be responsible for contacting the State and/or local governments to give prompt notification for implementing protective measures within the plume exposure pathway, and beyond it if necessary. Procedure RP/0/A/1000/024, "Protective Action Recommendations" and SR/0/A/2000/003, "Activation of the Emergency Operations Facility" have been written to provide specific guidance for issuing protective action recommendations under various plant conditions to the Emergency Coordinator in the TSC and the EOF Director in the EOF Figure (J-1) respectively. The decision to use sheltering as an alternative to evacuation for impediments and special populations is one that will be made by offsite officials. If dose projections show that PAGs have been exceeded at 10 miles, the dose assessment code and in-field measurements, when available, shall be used to calculate doses at various distances downwind to determine how far from the site PAG levels are exceeded. The Radiological Assessment Manager shall forward the results to the EOF Director who will communicate this information to the offsite authorities.

Figure J-1A (Protective Action Guides) is adopted from EPA 400 and guidance in state plans on use of KI and considers protective action based on projected avoided dose.

Per Appendix 2, initial protective actions are predetermined for Control Room use for general emergency conditions. Meteorological conditions at Oconee require a complex method for determining appropriate sectors to evacuate. The Control Room will evacuate out to five miles and shelter out to ten miles which will simplify the process for determining the appropriate sectors to evacuate and to shelter.

ONS Emergency Plan, Section J.8 Evacuation Time Estimates

A description of the methods and assumptions used in developing the analysis of evacuation time estimates is included in the current Evacuation Time Estimate Study for the Oconee Nuclear Site. (ONS-ETE-12142012, Rev. 000; ONS Evacuation Time Estimates (ETE) Dated 12/14/2012.) The Evacuation Time Estimates will be considered in evaluating protective action recommendations from the Technical Support Center or the Emergency Operations Facility. A copy of the most recent study is available in the Technical Support Center and the Emergency Operations Facility.

An updated ETE analysis will be submitted to the NRC under §50.4 no later than 365 days after ONS determination that the criteria for updating the ETE have been met and at least 180 days before using it to form protective action recommendations and providing it to State and local governmental authorities for use in developing offsite protective action strategies.

The criteria for determination that an updated ETE analysis have been met:

a. The availability of the most recent decennial census data from the U.S. Census Bureau:

OR

b. If at any time during the decennial period, the EPZ permanent resident population increases such that it causes the longest ETE value for the 2-mile zone or 5-mile zone, including all affected Emergency Response Planning Areas, or for the entire 10-mile EPZ to increase by 25 percent or 30 minutes, whichever is less, from the currently NRC approved or updated ETE.

During the years between decennial censuses ONS will estimate EPZ permanent resident population changes once a year, but no later than 365 days from the date of the previous estimate, using the most recent U.S. Census Bureau annual resident population estimate and State/local government population data, if available. ONS will maintain these estimates so that they are available for NRC inspection during the period between decennial censuses and shall submit these estimates to the NRC with any updated ETE analysis.

ONS' ETE analysis, using the 2010 decennial census data from the U.S. Census Bureau, was submitted to the NRC via §50.4 on December 14, 2012.

ONS Emergency Plan, Section J.9 Implementing Protective Measures

A description of the methods and assumptions used in developing the analysis of evacuation time estimates is included in the current Evacuation Time Estimate Study for the Oconee Nuclear Site. (ONS-ETE-12142012, Rev. 000; ONS Evacuation Time Estimates (ETE) Dated 12/14/2012.) The Evacuation Time Estimates will be considered in evaluating protective action recommendations from the Technical Support Center or the Emergency Operations Facility. A copy of the most recent study is available in the Technical Support Center and the Emergency Operations Facility.

An updated ETE analysis will be submitted to the NRC under §50.4 no later than 365 days after ONS determination that the criteria for updating the ETE have been met and at least 180 days before using it to form protective action recommendations and providing it to State and local governmental authorities for use in developing offsite protective action strategies.

The criteria for determination that an updated ETE analysis have been met:

a. The availability of the most recent decennial census data from the U.S. Census Bureau;

OR

b. If at any time during the decennial period, the EPZ permanent resident population increases such that it causes the longest ETE value for the 2-mile zone or 5-mile zone, including all affected Emergency Response Planning Areas, or for the entire 10-mile EPZ to increase by 25 percent or 30 minutes, whichever is less, from the currently NRC approved or updated ETE.

During the years between decennial censuses ONS will estimate EPZ permanent resident population changes once a year, but no later than 365 days from the date of the previous estimate, using the most recent U.S. Census Bureau annual resident population estimate and State/local government population

data, if available. ONS will maintain these estimates so that they are available for NRC inspection during the period between decennial censuses and shall submit these estimates to the NRC with any updated ETE analysis. ONS' ETE analysis, using the 2010 decennial census data from the U.S. Census Bureau, was submitted to the NRC via §50.4 on December 14, 2012.

ONS Emergency Plan, Section J.10 Implementation of Protective Measures for Plume Exposure Pathway, Paragraph J.10.m, Bases For Protective Action Recommendations

DUKE ENERGY uses the following considerations in determining protective action recommendations:
1) Protective Action Guides (PAG)
2) Core Condition

ONS Emergency Plan, Figure J-1, Protective Action Flow Chart

Condition	**Fuel Damage Symptoms**	**Containment Status**	**Protective Action Recommended**
General Emergency Declared	• Loss of critical functions required for core protection • High CETCs • RB High rad levels	Not applicable	Evacuate 2- mile radius and 5- miles downwind unless conditions make evacuation dangerous. (See Note 1). Shelter any sector not evacuated.
Additional protective recommendations will be based on the following conditions from either the Technical Support Center or the Emergency Operations Facility. TSC or the EOF shall continue assessment based on all available plant and field monitoring information. Modify protective actions as necessary. Locate and evacuate people from hot spots. Do not relax protective actions until the source of the threat is clearly under control.			
Fuel Damage Detected by Monitors	High rad levels as determined by Reactor Building and unit vent monitors	Known containment breach or RB pressure greater than 1 PSIG	Dose calculations required to determine additional evacuation requirements and recommendations on use of stable iodine. Shelter any sector not evacuated.
Condition 2 failed fuel as determined by RP/0/A/1000/018	• RB high rad levels • H-2 increasing • Clad >1200° F	No credit is taken for containment.	Evacuate 5-mile radius and 10-miles downwind. Shelter any sector not evacuated.

Note 1. Dangerous travel conditions or immobile/mobility impaired population.

FIGURE J-1A

PROTECTIVE ACTION GUIDES

Protective Action	Recommended Actions	Comments
Evacuation	1-5 rem TEDE from significant external and	Although the PAG is expressed as a range, under normal conditions

	internal exposure from gamma radiation from the plume and from deposited material	evacuation of the public is usually justified when the projected dose to an individual is one rem.
Evacuation	5-25 rem thyroid CDE from significant inhalation of activity in the plume	Although the PAG is expressed as a range, under normal conditions evacuation of the public is usually justified when the projected dose to an individual is five rem.
Administration of stable iodine (e.g. KI)	5 rem thyroid CDE from radioiodine	Duke Energy will recommend that offsite agencies consider the use of KI at 5 rem thyroid CDE.

Sheltering Concepts:
Duke Energy will make evacuation recommendations to the offsite agencies. However, if hazardous environmental conditions exists, Oconee emergency personnel will provide information (plant status, release magnitude, release duration, consequences) for the offsite agencies to use in making their decisions as to whether or not the public will be evacuated or sheltered.

ONS Emergency Plan Section D (Emergency Classification System)

ENCLOSURE 4.1, BASIS INFORMATION FOR FISSION PRODUCT BARRIER REFERENCE TABLE

CONTAINMENT BARRIER EAL (Loss EAL excerpts):
The Containment Barrier includes the containment building, its connections up to and including the outermost containment isolation valves. This barrier also includes the main steam, feedwater, and blowdown line extensions outside the containment building up to and including the outermost secondary side isolation valve.

1. Containment Pressure
Rapid unexplained loss of pressure (i.e., not attributable to containment spray or condensation effects) following an initial pressure increase indicates a loss of containment integrity.

Containment pressure and sump levels should increase as a result of the mass and energy release into containment from a LOCA. Thus, sump level or pressure not increasing indicates an interfacing systems LOCA which is a containment bypass and a loss of containment integrity.

2. Containment Isolation Valve Status After Containment Isolation
Failure to isolate those containment pathways which would allow containment atmosphere to be released to the environment is a loss of the containment barrier.

The decision of whether this EAL is satisfied should be based on present and readily available information. This includes physical data seen and heard. It is not the intent of this EAL to use relatively long term calculations to make the determination. If there is a pathway which would allow containment atmosphere to be released to the environment, this EAL is satisfied.

3. SG Secondary Side Release With Primary To Secondary Leakage
Secondary side releases directly to the atmosphere include atmospheric dump valves and stuck open main steam safety valves. If the main condenser is available, there may be releases via air ejector, gland seal

exhauster, and other similar controlled, and often monitored, pathways. These pathways do not meet the intent of a direct opening to the environment. These minor releases are assessed using Abnormal Rad Levels/Radiological Effluent Initiating Conditions. A failure of the secondary side which results in a direct opening to the environment, in combination with Primary to Secondary leakage > 10 gpm in the same steam generator, constitutes a bypass of the containment, and therefore, a loss of the containment barrier.

Likewise, a failure of the secondary side which results in a direct opening to the environment, in combination with Primary to Secondary leakage > 10 gpm in the other steam generator, constitutes a bypass of the containment, IF the SG with the secondary side failure is being fed feedwater from the affected unit. Therefore, this condition also constitutes a loss of the containment barrier. In combination with the SG Tube Rupture EAL under the RCS barrier section, the appropriate classification can be determined.

4. Significant Radioactive Inventory in Containment

Containment radiation readings shown in the table below are values which indicate significant fuel damage well in excess of the EALs associated with both loss of Fuel Clad and loss of RCS Barriers. NUREG-1228, "Source Estimations During Incident Response to Severe Nuclear Power Plant Accidents," indicates that such conditions do not exist when the amount of clad damage is less than 20%. This amount of activity in containment, if released, could have such severe consequences that it is prudent to treat this as a potential loss of containment.

By treating the radioactive inventory in containment as a potential loss, a General Emergency will be declared when the conditions of the fuel clad and RCS barriers are included in the evaluation. This will allow the appropriate protective actions to be recommended.

Compliance Evaluation and Conclusion: BLOCK 4

Evaluation:

75771 Federal Register / Vol. 76, No. 233 / Monday, December 5, 2011 / Rules and Regulations states: "the U.S. Nuclear Regulatory Commission (NRC) is issuing Supplement 3, Guidance for Protective Action Strategies, to NUREG–0654/FEMA–REP–1, Revision 1, Criteria for Preparation and Evaluation of Radiological Emergency Response Plans and Preparedness in Support of Nuclear Power Plants[1]."

"This document provides guidance for addressing new EP requirements for nuclear power plants based on changes to EP regulations in 10 CFR 50.47 and Appendix E to Part 50 in the November 23, 2011, final rule."

"Supplement 3 of NUREG–0654/FEMA–REP–1 resulted from close coordination between FEMA and NRC staff as well as extensive input from stakeholders. The guidance incorporates the following elements:

1. Increased offsite response organization involvement in development of site specific protective action strategies;
2. Increased use of information from updated and current site specific evacuation time estimates;
3. Staged evacuation as the initial protective action at a General Emergency;
4. Increased use of shelter-in-place for certain scenarios; and
5. Guidance to improve communications with the public before and during an emergency.

Licensees should meet the requirements of Appendix E, Section IV, paragraph 3 as soon as practical following the 180-day period in Appendix E, Section IV, paragraphs 4 and 6."

Supplement 3 presents the NRC staff's first guidance addressing compliance with the newly-added part 50, Appendix E, Section IV, paragraph 3, which was part of the November 23, 2011, final rule."

[1] Referred to as **NUREG-0654 FEMA-REP-1, Rev. 1, Supplement 3** for short

NUREG-0654 FEMA-REP-1, Rev. 1, Supplement 3
"...updates the previous version of Supplement 3, "Criteria for Protective Action Recommendations for Severe Accidents," issued July 1996. Supplement 3 provides a protective action strategy development tool based on recent technical information and is intended for use by nuclear power reactor licensees to develop site-specific protective action recommendation procedures. Offsite response organizations should use Supplement 3 to develop protective action strategy guidance for decision makers. The guidance of Supplement 3 provides an acceptable method to comply with Appendix E to Part 50, Title 10 of the *Code of Federal Regulations* (10 CFR) Section IV, paragraph 3 in the use of evacuation time estimates in the formulation of protective action recommendations (PAR) for the plume exposure emergency planning zone, and provides guidance for the provisions of 10 CFR 50.47(b)(10) in the development of a range of PAR. Supplement 3 also provides guidance to support the information in NUREG-0654/FEMA-REP-1 that the U.S. Nuclear Regulatory Commission finds to be an acceptable method of meeting the requirements in 10 CFR 50.47(b)(7) for the development of a public information program. However, licensees may identify alternative methods of compliance with these requirements."

Appendix E to Part 50, Title 10 of the *Code of Federal Regulations* (10 CFR) Section IV, paragraph 3 states "Nuclear power reactor licensees shall use NRC approved evacuation time estimates (ETEs) and updates to the ETEs in the formulation of protective action recommendations and shall provide the ETEs and ETE updates to State and local governmental authorities for use in developing offsite protective action strategies."

10 CFR 50.47(b)(7) states "Information is made available to the public on a periodic basis on how they will be notified and what their initial actions should be in an emergency (e.g., listening to a local broadcast station and remaining indoors), the principal points of contact with the news media for dissemination of information during an emergency (including the physical location or locations) are established in advance, and procedures for coordinated dissemination of information to the public are established."

Regulatory Guide 1.219, "Guidance on Making Changes to Emergency Plans for Nuclear Power Reactors," dated November 2011 identifies the following two emergency planning functions for planning standard 10 CFR 50.47(b)(7) - Emergency Public Information:

(1) Emergency preparedness information is made available to the public on a periodic bases within the plume exposure pathway EPZ.

(2) Coordinated dissemination of public information during emergencies is established.

10 CFR 50.47(b)(10) "A range of protective actions has been developed for the plume exposure pathway EPZ for emergency workers and the public. In developing this range of actions, consideration has been given to evacuation, sheltering, and, as a supplement to these, the prophylactic use of potassium iodide (KI), as appropriate. Evacuation time estimates have been developed by applicants and licensees. Licensees shall update the evacuation time estimates on a periodic basis. Guidelines for the choice of protective actions during an emergency, consistent with Federal guidance, are developed and in place, and protective actions for the ingestion exposure pathway EPZ appropriate to the locale have been developed."

Regulatory Guide 1.219, "Guidance on Making Changes to Emergency Plans for Nuclear Power Reactors," dated November 2011 identifies the following three emergency planning functions for planning standard 10 CFR 50.47(b)(10) - Emergency Protective Actions:

(1) A range of public PARs is available for implementation during emergencies.

(2) Evacuation time estimates for the population located in the plume exposure pathway EPZ are

available to support the formulation of PARs and have been provided to State and local governmental authorities.

(3) A range of protective actions is available for plant emergency workers during emergencies, including those for hostile action events."

NUREG-0654 FEMA-REP-1, Rev. 1 Supplement 3 has the following guidance - Where evacuation cannot be accomplished in the time specified, a recommendation for Shelter until the plume has passed is more beneficial. Concerning the 0 - 2 mile radius - If the 90-percent ETE for this area is 2 hours or less, immediately evacuate. IF greater than 2 hours, Shelter. Concerning the 2 - 5 mile downwind - If the 90-percent ETE for this area is 3 hours or less, immediately evacuate. Concerning the 5 - 10 mile downwind - Shelter, then when safe to do so, evacuate.

NUREG-0654 FEMA-REP-1, Rev. 1 Supplement 3 states: In a hostile-action-based GE (armed attack), OROs may determine that an initial recommendation to shelter in place rather than evacuation is the preferred path. If event is a Hostile Action or Impediments to Evacuation, then the PAR is Shelter 2 mile radius and Shelter 2 - 5 miles downwind.

NUREG-0654 FEMA-REP-1, Rev. 1 Supplement 3 states: The site-specific protective action recommendation (PAR) procedure for those sites at which a delay of an initial staged evacuation is necessary, pending support setup, should include this time. Any impediments to allow an evacuation within the ETE is considered as exceeding the ETE. If event is a Hostile Action or Impediments to Evacuation, then the PAR is Shelter 2 mile radius and Shelter 2 - 5 miles downwind.

NUREG-0654 FEMA-REP-1, Rev. 1 Supplement 3 states: Extreme weather conditions, such as inversion, significant precipitation, or no wind, can change the efficacy of Sheltering and make evacuation the preferred protective action.

NUREG-0654 FEMA-REP-1, Rev. 1 Supplement 3 states: This guidance should not affect the use of the protective action guidelines developed and issued by the U.S. Environmental Protection Agency (EPA). The EPA protective action guides (EPA, 1992) remain the appropriate Federal guidance on radiological criteria for consideration of protective actions.

EPA 400-R-92-001 states
"Public officials are charged with the responsibility to protect the health of the public during hazardous incidents. The purpose of this manual is to assist these officials in establishing emergency response plans and in making decisions during a nuclear incident. It provides radiological protection guidance that may be used for responding to any type of nuclear incident or radiological emergency, except nuclear war."

Under regulations governing radiological emergency planning and preparedness issued by the Federal Emergency Management Agency (47 FR 10758, March 11, 1982), the Environmental Protection Agency's responsibilities include, among others, (1) establishing Protective Action Guides (PAGs), (2) preparing guidance on implementing PAGs, including recommendations on protective actions, (3) developing and promulgating guidance to State and local governments on the preparation of emergency response plans, and (4) developing, implementing, and presenting training programs for State and local officials on PAGs and protective actions, radiation dose assessment, and decision making."

EPA 400-R-92-001 states
"The primary objective of evacuation is to avoid exposure to airborne or deposited radioactive material by moving individuals away from the path of the plume. Evacuation, if completed before plume arrival, can be 100

percent effective in avoiding future exposure. Even if evacuation coincides with or follows plume passage, a large reduction of exposure may be possible."

EPA 400-R-92-001 states
"Sheltering may be an appropriate protective action because: *1.* It positions the public to receive additional instructions when the possibility of high enough doses to justify evacuation exists, but is small: *2.* It may provide protection equal to or greater than evacuation. *3.* It is less expensive and disruptive than evacuation. *4.* Since it may be implemented rapidly, sheltering may be the protective action of choice if rapid evacuation is impeded by, a) severe environmental conditions--e.g. severe weather or floods; b) health constraints--e.g. patients and workers in hospitals and nursing homes; or c) long mobilization times--certain industrial and farm workers, or prisoners and guards; d) physical constraints to evacuation--e.g. inadequate roads. *5.* Sheltering may be more effective against inhalation of radioactive particulates than against external gamma exposure, especially for short term plumes."

EPA 400-R-92-001 Table 2-1, PAGs for the Early Phase of a Nuclear Incident

Protective Action	PAG (projected dose)	Comments
Evacuation (or sheltering[2])	1 - 5 rem[3]	Evacuation (or for some situations, sheltering) should normally be initiated at 1 rem. further guidance is provided in Section 2.3.1.
Administration of stable iodine	25 rem[4]	Requires approval of State medical officials.

NRC ML14007A652, EPFAQ 2013-004 Question 1
Section 2.7 and the Attachment block "Rapidly progressing severe accident": Can a Rapidly Progressing Severe Accident be defined in terms that are easily identified by the control room staff (e.g., tied to a specific time frame and sites Emergency Action Levels)?

NRC Response
Emergency Director judgment is important in this rapid, but unlikely scenario. However, the staff understands the need to formalize criteria to the extent practical. As such, criteria outlined below would be appropriate.

A rapidly progressing severe accident may be defined as:

1. This protective action recommendation is the first after a General Emergency has been declared
   AND
2. There is loss of the containment barrier per the Emergency Action Levels
   AND

[2] Sheltering may be the preferred protective action when it will provide protection equal to or greater than evacuation, based on consideration of factors such as source term characteristics, and temporal or other site-specific conditions (see Section 2.3.1).
[3] The sum of the effective dose equivalent resulting from exposure to external sources and the committed effective dose equivalent incurred from all significant inhalation pathways during the early phase. Committed dose equivalents to the thyroid and to the skin may be 5 and 50 times larger, respectively.
[4] Committed dose equivalent to the thyroid from radioiodine.

3. EITHER of the following:
   a. Greater than or equal to Containment High Range Area Radiation Monitor Potential Loss EAL Threshold (20% Clad Damage)
   OR
   b. A significant radiological release (greater than PAGs at boundary) in about an hour

As noted in Supplement 3, if these conditions cannot be determined, the Emergency Director should assume they are not taking place.

The guidance for protective action strategy is applicable to conditions directly after a General Emergency is declared. However, the declaration and the large early release may not be the initiating event and could take place after the Technical Support Center or Emergency Operations Facility is activated. The criteria would be applicable to protective action recommendation guidance for the augmented emergency response organization (ERO).

Conclusion:

Rapidly Progressing Severe Accident (RPSA) only applies to first PAR after initial General Emergency via criterion for loss of containment barrier per EALs with a potential loss of containment barrier per containment radiation monitors per EALs **OR** projected radiological release at site boundary to exceed EALs within one hour. A loss of containment barrier alone does not generate a General Emergency per the EALs; therefore, two other fission product barriers are lost or one other fission product barrier is lost with a potential loss of the other. Once a GE is declared, containment must be evaluated for a loss of containment barrier then containment radiation monitors and dose at site boundary must be evaluated to determine if a RPSA applies. The potential loss of containment barrier per the EALs using the containment radiation monitors RIA57 and RIA58 is based on 20% fuel failure. This amount of radioactivity in containment, if released, could have severe offsite consequences, that extending PARs to 10 miles downwind is prudent. The projected radiological release at site boundary to exceed EALs within one hour is a conservative measure for the protection of the health and safety of the public, as the EALs were based on exceeding the PAGs. **ONS Emergency Plan Section D (Emergency Classification System)** has not changed. IF RPSA criteria is met, then effective actions are taken to ensure the health and safety of the public; therefore, the actions to determine PAR for a RPSA continues to comply with the requirements.

NUREG-0654, Sup. 3 also provides guidance for SIP in place based upon Hostile Action or Impediments to Evacuation.

EPA 400-R-92-001 supports SIP and states that Since it may be implemented rapidly, sheltering may be the protective action of choice.

EPA 400-R-92-001 is also the basis for the PARs in **ONS Emergency Plan** Section J - Protective Response.

NUREG-0654, Sup. 3 states that staged evacuation may be the preferred evacuation but ONS-ETE-12142012.000 provides a summary that a staged evacuation provides no benefits to evacuees from within the 2 mile region and adversely impacts many evacuees located beyond 2 miles from ONS. Therefore, staged evacuation is not recommended.

NRC ML14007A652, EPFAQ 2013-004 Question 3 and 4, provided guidance for licensees to perform a technical evaluation for RPSA PARs and Staged Evacuation. **KLD TR-681** is the evaluation that utilized NUREG-0654, Sup 3 information and the NEI methodology referenced in EPFAQ 2013-004 Question 4 (**NRC ML13269A370)** that was incorporated into Appendix D of NEI 12-10.

KLD TR-681, using the methodology per NUREG-0654, Sup 3 and NEI 12-10, supports evacuating the 2 mile region and downwind to 5 miles during a RPSA and found that staged evacuation is not recommended.

These PAR changes for RPSA take into consideration that initial evacuation can actually reduce dose when members of the general public evacuate the two mile radius and 2-5 miles downwind and SIP 5 -10 miles downwind, rather than doing a staged evacuation.

These PAR changes consider where SIP was evaluated for increased use for certain scenarios (e.g., HAB, impediments, short-term release), as well as where found to be more beneficial than evacuation (e.g., during RPSA for the 5-10 mile downwind) based on the KLD TR-681 analysis of the ONS ETE with regard to NUREG-0654, Sup. 3 and the NRC technical basis for the development of PARs for a rapidly progressing scenario. [NUREG/CR-6953, "Review of NUREG-0654, Supplement 3, 'Criteria for Protective Action Recommendations for Severe Accidents,'" Volumes 1, 2, and 3 (NRC, 2007a; NRC, 2008; and NRC, 2010)]

Based upon Supplement 3 guidance: actions are taken for expanded PAR for the OROs and licensee to make decisions to evacuate areas that were SIP based upon removal of impediments, adverse weather or other factors. SIP provides effective actions to ensure the health and safety of the public; therefore, these changes continue to comply with the requirements.

If any other event has generated a General Emergency, then the PAR is evacuate 2 mile radius and evacuate 2 - 5 miles downwind.

The changes made in this revision of RP/0/A/1000/024 (Protective Action Recommendations) comply with the new elements as described by NUREG-0654/FEMA-REP-1 Rev 1, Supplement 3 Guidance for Protective Action Strategies and continue to comply with the requirements set forth in 10 CFR 50.47(b)(7), 10 CFR 50.47(b)(10), Appendix E to Part 50, Title 10 of the Code of Federal Regulations (10 CFR) Section IV, paragraph 3, and NUREG-0654/FEMA-REP-1 Rev 1.

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

Reduction in Effectiveness (RIE) Evaluation and Conclusion: BLOCK 5

Evaluation:

The guidance in Supplement 3 to NUREG-0654/FEMA-REP-1, Rev. 1 is based on recent technical analyses, and it updates previous guidance on the development of PAR strategies for nuclear power plan accidents. Supplement 3 to NUREG-0654/FEMA-REP-1, Rev. 1 was issued by the NRC per 75771 Federal Register / Vol. 76, No. 233 / Monday, December 5, 2011 / Rules and Regulations. ONS Emergency Plan Protective Action Guides are adopted from EPA 400-R-92-001 and NUREG-0654 FEMA-REP-1, Rev. 1.

Supplement 3 does not affect the EPA guidelines; therefore, there is no impact on the Oconee Emergency Plan or the Protected Action Guides (PAGs).

KLD Engineering performed the ETEs for ONS as described in ONS Emergency Plan Section J. KLD Engineering generated KLD TR-681 (Development of Protective Action Strategy) using methodologies from NUREG-0654, Sup. 3 and Appendix D of NEI 12-10. KLD TR-681 utilized the ONS 2012 ETE to determine the PAR for a RPSA (in accordance with NUREG-0654, Sup. 3) and determined that staged evacuation is not recommended (NEI 12-10, Appendix D). The methodology in NEI 12-10, Appendix D, was acknowledged by the NRC via reference of ML13269A370 (NEI letter to the NRC) in the NRC Response to EPFAQ 2013-004, Question 4, as a techniques instructive in the conduct of such analyses. NEI then added the methodology from ML13269A370 to Appendix D of NEI 12-10.

These PAR changes take into consideration the health and safety of the public where evacuation can actually reduce

dose when members of the general public evacuate the two mile radius, 2-5 miles downwind, and additional Zones that exceed PAGs.

ONS has placed into procedures PAR for impediments to evacuation per recommendations of NUREG-0654 FEMA-REP-1, Rev. 1 , Supplement 3, using *PROTECTIVE ACTION STRATEGY DEVELOPMENT TOOL NOTES.*

These PAR changes take into consideration where SIP was evaluated for increased use for certain scenarios (e.g., HAB, impediments, short-term release) as well as where found to be more beneficial than evacuation (e.g., during RPSA for the 5-10 mile downwind) based on the KLD TR-681 analysis of the ONS ETE with regard to NUREG-0654, Sup. 3 and the NRC technical basis for the development of PARs for a rapidly progressing scenario. [NUREG/CR-6953, "Review of NUREG-0654, Supplement 3, 'Criteria for Protective Action Recommendations for Severe Accidents,'" Volumes 1, 2, and 3 (NRC, 2007a; NRC, 2008; and NRC, 2010)]

Actions are taken for expanded PAR for the OROs and licensee to make decisions to evacuate areas that were SIP based upon removal of impediments, adverse weather or other factors.

ONS continues to provide information to residents within the 10 mile EPZ as described in **10 CFR 50.47(b)(7).**

ONS continues to provide PARs to ensure the health and safety of the public as described in **10 CFR 50.47(b)(10).**

These PAR changes use the ETEs in the formulation of PARs as required in **Appendix E to Part 50, (10 CFR) Section IV, paragraph 3.**

The changes made in this revision of RP/0/A/1000/024 (Protective Action Recommendiations) comply with the new elements as described by NUREG-0654/FEMA-REP-1 Rev 1, Supplement 3 Guidance for Protective Action Strategies. These changes enhance the Protective Action Recommendation program with the incorporation of the updated guidance and NRC PAR study technical bases for protective action guidance and continue to comply with the requirements set forth in 10 CFR 50.47(b)(7), 10 CFR 50.47(b)(10), 10CFR50 Appendix E, NUREG-0654/FEMA-REP-1 Rev 1, and NUREG-0654/FEMA-REP-1 Rev 1, Supplement 3.

Conclusion:

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

Effectiveness Evaluation Results BLOCK 6

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

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

Preparer Name: Mike Stephens	Preparer Signature: Mike Stephens	Date: 12/08/2014
Reviewer Name: Don Crowl	Reviewer Signature: Don	Date: 12-8-14
Approver Name: Patrick M Street	Approver Signature:	Date: 12/10/14

Duke Energy Oconee Nuclear Station **Joint Information Center Emergency Response Plan**	Procedure No. **RP/0/A/1000/031**
	Revision No. **002**
Reference Use	Electronic Reference No. **OP009AD5**

PERFORMANCE

PDF Format

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

Compared with Control Copy* _____ Date _____

Compared with Control Copy* _____ Date _____

Compared with Control Copy* _____ Date _____

Date(s) Performed	Work Order/Task Number (WO#)

COMPLETION

- ☐ Yes ☐ NA Checklists 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

Procedure Completion Approved* Date
**Printed Name and Signature*

Remarks (*attach additional pages, if necessary*)

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

Printed Date: *12/09/2014*

Enclosure No.: *FULL*

Revision No.: *002*

Procedure No.: *RP/0/A/1000/031*

NOTE:
- This procedure is identified as an Emergency Plan Implementing Procedure. Prior to finalizing and approving any revisions, it must be forwarded to Emergency Preparedness for review in accordance with 10CFR50.54(q) Emergency Plan Effectiveness Review.
- For an outside line, dial "9" and for long distance dial "1."

1. Symptoms

1.1 Conditions exist such that the Oconee Joint Information Center Emergency Response Plan has been activated to support a nuclear emergency.

2. Immediate Actions

2.1 Government Agency Liaison position will be filled once emergency reaches a "degrading Alert" or a Site Area Emergency.

2.2 Distribution Coordinator position will be filled at initial activation of the JIC.

2.3 Administrative Support position will be filled upon decision to activate the JIC.

2.4 Registration Support position will be filled upon decision to activate the JIC.

2.5 Media Monitor position will be filled upon decision to activate the JIC.

2.6 Teleproductions Support Coordinator position will be filled once emergency reaches a "degrading Alert" or a Site Area Emergency.

2.7 Media Liaison position will be filled upon decision to activate the JIC.

2.8 News Manager position will be filled upon decision to activate the JIC.

2.9 Public Spokesperson position will be filled upon decision to activate the JIC.

2.10 ONS JIC Technical Liaison position will be filled upon decision to activate the JIC.

3. Subsequent Actions

3.1 Obtain the appropriate enclosure for the position to be filled.

3.2 Facilitate activation of the JIC per Enclosure 4.13 (Process For Media Center Activation/Deactivation).

4. Enclosures

4.1 Government Agency Liaison Checklist

4.2 Distribution Coordinator Checklist

4.3 Administrative Support Checklist

4.4 Registration Support Checklist

4.5 Media Monitor Checklist

4.6 Teleproductions Support Coordinator Checklist

4.7 Media Liaison Checklist

4.8 News Manager Checklist

4.9 Public Spokesperson Checklist

4.10 ONS JIC Technical Liaison Checklist

4.11 Process For Accessing JIC Forms

4.12 Process For Accessing Nuclear News Releases

4.13 Process For Media Center Activation/Deactivation

Name:_____ **Date:**_____

1. Government Agency Liaison Checklist

☐ 1.1 Sign in on JIC staffing board.

☐ 1.2 Put on position badge.

NOTE:
- For drills, all written and verbal communication must be prefaced with the words "THIS IS A DRILL".
- Logs should be kept to enable re-creation of actions taken.

☐ 1.3 **Nuclear only**: Contact NEI by emailing: NEIresponsecenter@nei.org to inform of the drill/emergency and let them know they will be receiving news releases. Please provide the following information:

- Your name and company
- A phone number where you can be reached
- The affected station and unit
- The situation (drill or event) and classification - direct them to call you, if they need more information.

☐ 1.4 Work with the News Manager to ensure JIC is declared JIC operational/activated in a timely manner. Remember that JIC declaration must be coordinated with Charlotte JIC.

☐ 1.5 Determine and discuss extent of state/county participation with Duke Energy News Manager.

☐ 1.6 Serve as the single point of contact for agency representatives reporting to the JIC and for internal business units/groups such as governmental affairs, regulatory affairs, business and community relations managers, etc.

- Assist agencies with room familiarization, use of equipment, etc.
- Determine number of copies of news releases needed for federal/county/state Public Information Officers (PIOs). Give this number to the admin support personnel as quickly as possible after JIC activation.
- Determine names of PIOs participating in news conferences and give this information to the admin support personnel so that name cards can be made.
- Verify state rumor control personnel in the JIC have copies of the Oconee Emergency Planning Calendar and all news releases.
- Use the government agency seating chart located in your notebook to document agency participation and seating.

☐ 1.7 Ensure the following information is posted on a status board or electronic log in the JIC and encourage JIC participants to check the board periodically.

- Oconee JIC status (operational, activated, deactivated), with date and time
- Event classification, with date, and time
- Major issues/concerns/rumors and their resolution

☐ 1.8 Work with administrative support personnel to ensure that all state/county/federal/Duke news releases pertaining to a change in classification are displayed in the Media Center at the SAME TIME.

- Use the Government Liaison ENF - Release chart template (located in the Gov. Agency Liaison folder on \\charf01\ccr_jicdrive) to track and verify news release and ENF receipt and distribution.

NOTE: The Government Agency Contact list in the JIC procedures cart or on the JIC drive (under telephone folder) may be referred to for phone numbers. PIOs in the JIC may also be able to relay information.

☐ 1.9 Ensure state, risk and host county emergency operations centers (EOCs) are notified when:

- The JIC is Operational.
- The JIC is Activated.
- A media center is being established.
- News releases/news updates are being faxed.
- As needed to determine if/when agency representatives will report to the JIC.

☐ 1.10 Perform a cursory review of agency news releases for accuracy of Duke Energy related information such as classification, time of declaration, Duke Energy actions, etc.

☐ 1.11 Keep State/County/Federal PIOs up-to-date on event/plant conditions and emergency classification. If other JICs are activated, utilize a bridge line for room updates so other JICs can hear the updates.

☐ 1.12 In preparing for news conferences:

- Serve as liaison between the News Manager and the state and counties to determine news conference times.
- Notify the Charlotte JIC of the news conference time.
- Request that the media liaison assigned to media center announce/post the time for the next news conference and provide updates if the news conference will be postponed/delayed.

- Determine if additional visual aids are needed by State/County PIOs and work with admin support and/or the distribution coordinator to obtain requested visual aids.

- Work with the News Manager to review the ONS slide deck located in the nuclear visuals folder on the JIC drive (\\charf01\ccr_jic) to identify/verify visuals for the news conference briefings.

- Ensure name tents for each PIO have been placed in the media center by the administrative support team.

- Ensure all agencies coordinate media/news conference briefings <u>within the JIC</u> prior to attending the news conferences.

NOTE: The following protocol should be used when using the JIC-EOF Conference Bridge (704-382-8080/866-385-2663 Conferee Code (b)(6))

- Identify yourself and your location
- Take turns speaking - do not interrupt
- Acknowledge receipt of information
- Repeat back to ensure important/sensitive information is received/understood
- Re-direct long discussions to a phone line

☐ 1.13 Be available/ready to establish contact with the Charlotte JIC and State and County Liaisons over the JIC-EOF Conference Bridge by calling, 704-382-8080/ 866-385-2663 and entering Conferee Code (b)(6) .

☐ 1.14 Ensure that the shelter/evacuation map located in the JIC and media center is properly coded for the protective action decisions provided by the state and counties.

☐ 1.15 Notify the News Manager and the Charlotte JIC (via the JIC-EOF Conference Bridge 704-382-8080/866-385-2663 Conferee Code (b)(6)) of issues or concerns expressed by State/County/Federal PIOs.

☐ 1.16 Verify that Duke Energy news releases are being provided to Federal/State/County PIO Representatives and State Rumor Control in the JIC.

☐ 1.17 Verify that Duke Energy news releases are being received by the State/County Emergency Operations Centers (EOCs). This may be done by monitoring the email distribution list or share drives set up by the agencies to share information. (Discuss this with the Emergency Communications Planner.)

☐ 1.18 Verify with the admin support personnel that the Media Liaisons in the Media Center and the Media Monitor are getting copies of all news releases.

☐ 1.19 Prepare and conduct turnover with next shift if applicable. Review current status, outstanding issues, items for follow up, etc.

☐ 1.20 Ensure checklist is complete (all boxes checked or n/a). Give completed checklist to Distribution Coordinator.

2. Sign Off

Completed By: _____ Date: _____

Name:_____ **Date:**_____

1. Distribution Coordinator Checklist

☐ 1.1 Sign in on JIC staffing board.

☐ 1.2 Put on position badge.

NOTE:
- For drills, all written and verbal communication must be prefaced with the words "THIS IS A DRILL".
- Logs should be kept to enable re-creation of actions taken.

☐ 1.3 Discuss administrative needs with the News Manager and/or Government Agency Liaison and then contact Administrative Support personnel to report to the JIC to manage the following functions, as needed:

- Fax support
- Copy support
- Internal JIC distribution
- Media monitoring

☐ 1.4 Provide oversight and direction for Administrative Support personnel in the following areas:

- Copy
  - Ensure Emergency Notification Forms (ENFs) are copied on green paper.
  - Ensure Emergency Alert System (EAS) messages are copied on blue paper.
- Distribution
  - Remind administrative support that Duke and agency news releases pertaining to a change in classification should be taken to the media center at the SAME TIME.
  - Carry a mobile phone, if available, when distributing information between facilities.
- FAX
  - Ensure faxes are sent/received in a timely manner - especially the Emergency Notification Form (ENF)
  - Ensure federal, state and county news releases are faxed to the Charlotte JIC
  - Ensure faxes sent are recorded on the Fax Log Sheet
- Media monitoring - ensure coordination with teleproductions and assist in radio/TV set up as needed.

☐ 1.5 Notify Facilities, IT/IM, and Security of JIC activation and the need for their support. Request at least one representative from each group respond to the JIC. (PIP 08-1713, CA 14)

☐ 1.6 If needed, ensure a media center has been properly set up.

☐ 1.7 Work with the Charlotte JIC to determine the number of additional staff being sent to ONS and ensure appropriate arrangements are made for hotels, meals, snacks, etc.

☐ 1.8 Ensure that a registration process (i.e. sign-up sheets and Security) is implemented for the Joint Information Center and the Media Center. Request Security Officers to provide registration support (one for JIC, one for media center - as applicable).

☐ 1.9 Carry a mobile phone (if available) when distributing information between the facilities.

☐ 1.10 Assist in setting up bridge lines, if needed, to allow multiple agencies/JICs to listen to discussions in the JIC.

☐ 1.11 Maintain a file folder for all documents associated with this event, such as:

- news releases
- approved talking points and messages
- county/state news releases
- government agency news releases
- emergency notification forms (ENFs)
- all other documents created/used to support the event

☐ 1.12 Ensure name cards are created and taken to the media center for PIOs who will speak during news conferences.

☐ 1.13 If needed, ensure emails/share drives are being monitored for agency news releases that may be shared in a central distribution point.

☐ 1.14 If requested, contact corporate services to secure a vendor capable of creating news conference transcripts ("Word" format preferable). Refer to the JIC reference manual for number to call.

☐ 1.15 Prepare and conduct turnover with next shift. Review current status, outstanding issues, items for follow up, etc.

☐ 1.16 At the end of the drill/exercise/event (i.e. deactivation of the JIC):

- Notify Security, IT/IM, and Facilities to cease support of the JIC/media center.
- Contact the Media Monitor and Media Center Liaisons to close down their operations.
- Have Administrative Support personnel replenish JIC supplies, forms and checklists.

☐ 1.17 Ensure the checklist is complete (all boxes checked or n/a).

☐ 1.18 Ensure the following forms are collected and given to the Corporate Communications Emergency Planner.

- Completed activation checklist for each Oconee public affairs participant
- Duke, federal, state, county news releases
- Emergency Notification Forms (ENFs)
- EAS notification forms
- Other federal or state documents received/issued in relation to the event (i.e., state of emergency declaration, etc.)
- All sign-in sheets/rosters from the JIC and media center.

2. Sign Off

Completed By: _____ Date: _____

Name:_____ **Date:**_____

1. Administrative Support Checklist

☐ 1.1 Sign in on JIC staffing board.

☐ 1.2 Put on position badge.

NOTE:
- For drills, all written and verbal communication must be prefaced with the words "THIS IS A DRILL".
- Logs should be kept to enable re-creation of actions taken.

☐ 1.3 Turn copy/fax machines on, ensure they are filled with paper, and check them for operability. Report any equipment problems to the Distribution Coordinator.

☐ 1.4 Work with the Government Agency Liaison to provide administrative support to State/County/Federal participants. Determine:

- Number of copies needed for Duke, Federal, State and County PIOs.
- Distribution of faxes, news releases, ENFs, incoming faxes and other documents within the JIC.

☐ 1.5 Create name tents for each spokesperson (Duke, Federal, State and County) and place name tents at the speakers table in the Media Center PRIOR to the first news conference.

1.5.1 Obtain names of PIO spokespersons for Duke and Federal, State and County agencies.

1.5.2 Use the name tent template of the JIC share drive (\\charf01\ccr_jic) to create personalized name tents for each PIO.

1.5.3 Place name tents at the speakers' table in the media center PRIOR to the first news conference.

1.5.4 Update name tents as needed (as new PIOs report for duty) and reverify prior to each news conference.

☐ 1.6 For copying, review copy list (in JIC Reference Manual) to assure familiarity with the number and type of copies:

- Blue paper should be used when copying state Emergency Alert System (EAS) messages

- Green paper should be used when copying Duke's Emergency Notification Forms (ENFs)
- White paper should be used when copying all other materials

☐ 1.7 If requested, monitor your email or a share drive for State/County/Federal news releases being shared via a central distribution system.

NOTE:	Emergency Notification Forms (ENFs) should only be given to the Duke Representatives in the Technical Liaison room and to the Government Agency Liaison. They should **NOT** be given to State/County Representatives unless specifically requested.

☐ 1.8 For distribution of information within the JIC and Media Center:

1.8.1 Work with the Government Agency Liaison to determine distribution of news releases and other information to Federal, State and County officials located in the JIC.

1.8.2 Distribute copies to the JIC staff and Media Monitors as outlined in the distribution lists established for each identified document (refer to the JIC Reference Manual).

1.8.3 Provide copies of news releases/updates to the Media Liaisons for media representatives in the Media Center.

NOTE:	Distribution of information is very important and should be carried out in a timely manner.

1.8.4 Coordinate distribution of Duke and agency news releases pertaining to a change in classification to ensure news releases are displayed in the media center at the SAME TIME.

☐ 1.9 Post a copy of each ENF and news releases (Duke, State, County, NRC) in the JIC.

☐ 1.10 For faxing support:

- Ensure that the following information is being sent to the Charlotte JIC:
  - A copy of every state/county/federal news release
  - A copy of any state/county or federal document received/issued which pertains to the event

☐ 1.11 If asked, support media center set up by referring to Enclosure 4.13 (Process For Media Center Activation/Deactivation).

☐ 1.12 Before the end of each day, check JIC files and replenish forms/checklists as necessary.

☐ 1.13 Prepare and conduct turnover with next shift. Review current status, outstanding issues, items for follow up, etc.

☐ 1.14 Ensure checklist is complete (all boxes checked or n/a). Give completed checklist to Distribution Coordinator.

2. Sign Off

Completed By: _____ Date: _____

Name:_____ **Date:**_____

1. Registration Support Checklist

☐ 1.1 Sign in on JIC staffing board.

☐ 1.2 Put on position badge.

NOTE:
- For drills, all written and verbal communication must be prefaced with the words "THIS IS A DRILL".
- Logs should be kept to enable re-creation of actions taken.

☐ 1.3 Report to Distribution Coordinator for assignment as a JIC Registrar or Media Center Registrar.

Process for JIC Registrars:

1.3.1 Have all entrants sign the registration log (log is at front of JIC cart - cart may be in storeroom or near front of the Joint Information Center).

1.3.2 Offsite Agency Access: For entry, off-site agency personnel must have a picture ID showing their name.

A. Ask for a driver's license, in addition to county/state/federal identification, if the government ID does not have a picture.

1.3.3 Duke Employee Access: A Duke ID is required for Duke employees reporting to the JIC.

A. Verify the person matches the name and picture on the ID.

B. Find the name of the person entering on the roster/ERO list. If the name is not listed, contact the News Manager or Emergency Communications Manager for validation/verification.

1.3.4 If any problems occur, notify Security and the Government Agency Liaison or News Manager. Allow Security to handle the situation.

NOTE:	Duke and Government Agency personnel entering the Media Center for news conferences are **NOT** required to sign in.

Process for Media Center Registrars:

1.3.5 Have all entrants sign the registration log.

1.3.6 A media or picture ID is required for reporters entering the ONS Media Center:

A. If a picture ID is not available, request that the Duke Media Liaison give permission for entry.

B. Request that all Media Personnel display their media/picture ID in a clearly visible manner (i.e. use the green media ID cards with a neck chain, etc.).

C. All non-media entrants should display their agency/company IDs.

1.3.7 If any problems arise, notify Security and the Duke Energy Media Liaison. Allow Security to handle the situation.

☐ 1.4 Prepare and conduct turnover with next shift. Review current status, outstanding issues, items for follow up, etc.

☐ 1.5 Ensure checklist is complete (all boxes checked or n/a). Give completed checklist to the Distribution Coordinator.

2. Sign Off

Completed By: _____ Date: _____

Name:_____ **Date:**_____

1. Media Monitor Checklist

☐ 1.1 Sign in on JIC staffing board.

☐ 1.2 Put on position badge.

NOTE:
- For drills, all written and verbal communication must be prefaced with the words "THIS IS A DRILL".
- Logs should be kept to enable re-creation of actions taken.

☐ 1.3 Report to the Media Monitor Room.

NOTE: Teleproductions Support Coordinator should be contacted if there are problems with TVs, DVRs, radios or other equipment.

☐ 1.4 Verify TV sets and VCRs are operable.

1.4.1 Obtain remote controllers from Distribution Coordinator, if needed.

1.4.2 Tune TVs to local CBS, ABC, and NBC stations and to CNN if enough TVs are available.

1.4.3 Ask the Distribution Coordinator for a listing of local cable numbers, if needed.

☐ 1.5 Verify SIM cards, DVRs/DVDs are available for recording radio AND TV broadcasts.

☐ 1.6 Contact the Media Coordinator in the Charlotte JIC (704-382-0611):

1.6.1 Tell them which stations you will monitor.

1.6.2 Give them a phone number where you can be reached.

☐ 1.7 Contact the JIC Administrative Support personnel and request copies of all news releases (expect to get information about once per hour – contact the Administrative Support personnel if you are not getting information).

☐ 1.8 Monitor and record only information relating to the emergency.

1.8.1 Monitor and record EAS messages from the following common control program radio station: Oconee WFBC 93.5.

1.8.2 Monitor and record radio and TV broadcasts covering the event.

1.8.3 Work with teleproductions to set up a second tuner to pick up recording stations, if tuner #1 is full.

NOTE:	IMPORTANT!
	The Media Coordinator should be immediately contacted in the Charlotte JIC (704-382-0611) when: - A discrepancy is noted between news releases and the information being provided over radio and TV - You believe the Charlotte JIC should be aware of the coverage (the tone of the reporting, what is being said and or implied, etc.)

☐ 1.9 At the end of the event or when the recordings are full, label them with the station(s) monitored, the date(s) and the time(s).

☐ 1.10 When the event is terminated, work with teleproductions to turn off all equipment. Collect the recordings and give them to the teleproductions staff to burn the information to a DVD if it will be archived.

☐ 1.11 Prepare and conduct turnover with next shift. Review current status, outstanding issues, items for follow up, etc.

☐ 1.12 Ensure checklist is complete (all boxes checked or n/a). Give completed checklist to Distribution Coordinator.

2. Sign Off

Completed By: _____ Date: _____

1. Teleproductions Support Coordinator Checklist

☐ 1.1 Sign in on JIC staffing board.

☐ 1.2 Put on position badge.

NOTE:
- For drills, all written and verbal communication must be prefaced with the words "THIS IS A DRILL".
- Logs should be kept to enable re-creation of actions taken.

☐ 1.3 Determine if additional people are needed to support the emergency from a teleproductions standpoint. If yes, contact the Media Coordinator (704-382-0611) in the Charlotte JIC to obtain additional resources.

☐ 1.4 Setup the Oconee Media Center for videotaping and broadcasting news conferences.

☐ 1.5 Verify a TV monitor is setup in the Oconee JIC to receive live news conference feed from the Oconee Media Center.

☐ 1.6 Verify audio feed setup from the Oconee Media Center to the Charlotte JIC and other JICs locations as needed.

☐ 1.7 Provide guidance in setting up the Oconee Media Monitoring Area:

- Ensure TVs, DVDs, radios and recorders are operable
- Provide SIM cards, DVRs/DVDs for recording
- Ensure person serving as Media Monitor knows how to operate all equipment

☐ 1.8 Provide a wireless microphone for use by audience in asking questions.

☐ 1.9 Provide real-time viewing of news conferences for the Oconee JIC.

☐ 1.10 Provide real-time listening and/or viewing capability for other locations of news conferences from the Oconee Media Center.

☐ 1.11 Direct and supervise teleproductions activities in the Media Center.

☐ 1.12 Give final copies of recordings to the Corporate Communicators Emergency Planner after the event.

☐ 1.13 Prepare and conduct turnover with next shift. Review current status, outstanding issues, items for follow up, etc.

☐ 1.14 Ensure checklist is complete (all boxes checked or n/a). Give completed checklist to the Distribution Coordinator.

2. Sign Off

Completed By: _____ Date: _____

Name:_____ **Date:**_____

1. Media Liaison Checklist

☐ 1.1 Sign in on JIC staffing board.

☐ 1.2 Put on position badge.

NOTE:
- For drills, all written and verbal communication must be prefaced with the words "THIS IS A DRILL".
- Logs should be kept to enable re-creation of actions taken.

☐ 1.3 Obtain the most current information concerning the event:

- Emergency Notification Forms (ENFs) - ENF's are a resource document only and should **NOT** be given to the media or anyone outside of JIC staff.
- News releases/updates
- Approved messages
- Nuclear Briefing Book
- Other sources of information include the JIC share drive, the CSC Sharepoint at http://wss.duke-energy.com/sites/Customer_Service_Event_Communications/default.aspx, the Technical Liaison bridge, and the internet.

☐ 1.4 Report to the Oconee Media Center as needed to provide information to the media.

☐ 1.5 Contact the Media Coordinator in Charlotte via the JIC media bridge line (704-382-8080/866-385-2663 Conferee Code (b)(6)) or their direct phone (704-382-0611) to provide:

1.5.1 Current status at the Oconee Media Center (number of media outlets, general context of questions, issues raised, etc.)

1.5.2 A number where you can be reached.

NOTE: Media Liaisons should work with the Media Coordinator, Media Integrator, and the EOF/ONS JIC Technical Liaisons to address/answer questions in a timely manner.

☐ 1.6 Serve as a primary source of contact for Duke Energy information by answering media questions and providing support information to the media.

☐ 1.7 During news conferences, one Media Liaison MUST dial the JIC-EOF Conference Bridge (704-382-8080/866-385-2663, Conferee Code (b)(6)) to keep abreast of plant status:

1.7.1 If the classification changes during the news conference, VERIFY that the states/counties have been officially notified and then discretely notify the News Manager via blackberry, email or written note.

NOTE: The following protocol should be observed when using the JIC-EOF Conference Bridge:

- Identify yourself and your location
- Take turns speaking - do not interrupt
- Acknowledge receipt of information
- Repeat back to ensure important/sensitive information is received/understood
- Re-direct long discussions to a phone line

☐ 1.8 Report to the Media Coordinator or Media Integrator (via the JIC Media bridge 704-382-8080/866-385-2663 Conferee Code (b)(6)):

- Any request for information that appears to be based on rumor
- Any media request that you cannot readily answer (this will allow the issue to be researched and addressed in a timely manner by you or the spokesperson)

CAUTION: News releases from Duke, state and counties relating to actions being taken for a change in classification must be displayed at the SAME TIME.

☐ 1.9 Serve as Media Center "host/hostess" by:

- Ensuring media outlets have appropriate materials/news releases/updates
- Announcing and post the time of the next news conference (when notified by the News Manager)
- Displaying and distributing news releases/updates in a timely manner
- Working with Government Agency Liaison to update shelter/evacuation map after the State/County Spokespersons arrive for the news conference/briefing to announce public protective actions (Caution: Do **NOT** update prior to their arrival.)
- Ensuring Duke maintains positive control of the Media Center

☐ 1.10 If a problem/issues arises, contact the Government Agency Liaison in the Oconee JIC (864-624-4363 or 4363) or News Manager at (864-624-4362 or 4362) for assistance.

☐ 1.11 Prepare and conduct turnover with next shift. Review current status, outstanding issues, items for follow up, etc.

☐ 1.12 Ensure checklist is complete (all boxes checked or n/a). Give completed checklist to Distribution Coordinator.

2. Sign Off

Completed By: _____ Date: _____

Name:_____ **Date:**_____

1. News Manager Checklist

NOTE:	Manual means of providing information to the Public Spokesperson must be used **IF** WEBEOC is **NOT** available.

☐ 1.1 Sign in on JIC staffing board.

☐ 1.2 Put on position badge.

NOTE:	• For drills, all written and verbal communication must be prefaced with the words "THIS IS A DRILL". • Logs should be kept to enable re-creation of actions taken.

☐ 1.3 Contact the public information manager in the Charlotte JIC (704-382-0610) concerning Oconee JIC activation status:

- Once all Duke personnel are staffed, report that the Oconee JIC is "operational" and document the time.
- Once the state and county PIOs are staffed and ready, report that the Oconee JIC is "ready for activation".
- Coordinate ONS and Charlotte JIC activation such that the declared activation time is the same for both facilities. If other JICs are participating, coordinate activation with them as well.
- Document the official time the Oconee JIC is "activated".

☐ 1.4 Discuss sources and collection of information with the ONS JIC Technical Liaison. Information should flow from the EOF to the ONS JIC and Charlotte JIC. Information gathered by the ONS JIC Technical Liaisons from the Ops bridge line should be verified with the EOF.

☐ 1.5 Prepare the public spokesperson for news conferences by:

- Reviewing the news conference form (located in public affairs' file cabinet)
- Verifying information has been provided by EOF/ONS JIC Technical Liaison (EOF logs, etc.)
- Providing copies of all news releases/bulleted updates
- Reviewing rumors and customer/media inquiries for inclusion if appropriate
- Reviewing event history and station fact sheets as appropriate.
- Developing messages and talking points based on current conditions and issues/rumors which need to be addressed
  - If injuries/fatalities are involved, review the corporate guideline "Responding to Serious Injuries or Fatalities" (located on the JIC drive, \\charf01\ccr_jic\procedures-guidance folder) with the public spokesperson PRIOR to news conferences\briefings.
  - To quickly address the media after event classification/upgrade, refer to the prepared initial event messages located in the "Nuclear Messages" folder in the Nuclear folder on the JIC drive.

☐ 1.6 As soon as possible, and prior to the news conference/briefing, share the spokesperson's talking points/message block with the Public Information Coordinator located in the Charlotte EOF to allow this information to be incorporated into news releases/updates. Ensure there is good information flow between the ONS JIC, the Charlotte JIC and the EOF.

☐ 1.7 Ensure Charlotte JIC allows ONS Spokesperson/News Manager to review the news release prior to approval in the EOF. (PIP 08-1713, CA 14)

☐ 1.8 Work with the Government Agency Liaison in the Oconee JIC and the Public Information Manager in the Charlotte JIC to:

- Determine a time for pre-news conference briefing with State/County/Federal PIOs.
- Set a time for news conferences/briefings and ensure the Charlotte JIC knows the designated time.
- Determine visual aids needed for news conference. Visual aids for each station can be found on the JIC drive (\\charf01\ccr_jic) in the nuclear visuals folder.
- Assign Media Liaison stationed in the Oconee Media Center to the JIC-EOF Conference Bridge (704-382-8080/866-385-2663, Conferee Code [(b)(6)] to keep up with plant status and emergency classification and to notify you via text, email or note if conditions change.
- Verify phone is available for the media liaison in the media center

NOTE:	During smaller or informal news briefings, the Public Spokesperson should be encouraged to speak from the podium in the media center to allow videotaping and recording. If conducting a phone interview, a conference phone or phone with a second line should be used to allow the News Manager to listen in with minimal interference.

☐ 1.9 Accompany and assist the Public Spokesperson during all news briefings, news conferences and interviews.

☐ 1.10 When preparing for news conferences with State and County Public Information Officers, complete the news conference agenda form (located in the corporate communications' file cabinet) during the pre-news conference briefing. If other JICs are participating, ensure a conference bridge is available so information can be shared.

☐ 1.11 Serve as the News Conference Moderator/Facilitator by using information gathered on the news conference agenda form during the pre-news conference briefing. Always use the suggested guidelines on the news conference agenda form for opening and closing each session.

Prior to beginning news conference:

- Ensure all people at the speakers table have a name card or a title card
- Ensure all people at the speakers table have a place to sit - obtain additional seats if needed
- Ensure participants' cell phones/pagers are off or set to vibrate during news conferences.
- Ensure a media liaison in the media center is monitoring the JIC-EOF Conference Bridge (704-382-8080/866-385-2663, Conferee Code (b)(5)) to keep you informed of major changes in plant status or classification levels. They should notify you via text, email or written note once they verify states and counties have been notified.

NOTE:	A news conference should be stopped if a change in emergency classification occurs while the conference is being held. Words to use are shown on the agenda form. Do **NOT** share specific upgrade information unless you are certain state and county agencies have been notified.

☐ 1.12 Work with the news manager in the Charlotte EOF to keep the NRC representatives in the EOF up to date on communication activities.

☐ 1.13 Document key decisions, calls and contacts using ERO Facility Log sheets or a notepad.

☐ 1.14 Coordinate JIC deactivation with the Charlotte JIC.

☐ 1.15 Complete turnover sheet for next shift and conduct turnover by reviewing current status, outstanding issues, items for follow up, etc.

☐ 1.16 Verify all checklist and information sheets have been properly completed/signed and leave paperwork for the Distribution Coordinator.

2. Sign Off

Completed By: _____ Date: _____

Name:_____ **Date:**_____

1. Public Spokesperson Checklist

NOTE:	Manual means of providing information to the Public Spokesperson must be used **IF** WEBEOC is **NOT** available.

☐ 1.1 Sign in on JIC staffing board.

☐ 1.2 Put on position badge.

NOTE:	• For drills, all written and verbal communication must be prefaced with the words "THIS IS A DRILL". • Logs should be kept to enable re-creation of actions taken.

☐ 1.3 Work with the News Manager and ONS JIC Technical Liaison to gather information.

☐ 1.4 Review news releases, TSC/EOF logs, event histories, fact sheets, guidelines for injuries/fatalities and other information appropriate to the event.

NOTE:	The ONS JIC Technical Liaison can get copies of TSC and EOF logs as needed to provide a chronological list of events.

☐ 1.5 Obtain a chronology of events in preparation for the news conference.

☐ 1.6 Request the ONS JIC technical liaisons make you aware of any significant change in plant status - whether you are in the JIC or a news conference.

☐ 1.7 Review all news releases/bulleted updates for approval prior to release and prior to each news conference. (PIP 08-1713, CA 14)

☐ 1.8 Keep in contact with other public spokespersons located at the visitor's center or Charlotte EOF to keep abreast of information being provided to the media from the plant site.

☐ 1.9 Review all documented escalated rumor information about plant status and/or misinformation revealed by media queries.

☐ 1.10 Request News Manager arrange for visual aids that will be needed (if appropriate) for press conference. Visual aids are located on the JIC share drive in the nuclear/nuclear visuals folder.

NOTE: Do **NOT** speculate during the news conference. Information should relate to plant status and plant recovery. Do not discuss public protective actions and state/county response.

Do **NOT** provide information related to the location of off-site assembly points.

CAUTION: Do **NOT** make reference to projected dose or rad data from the ENF during a news conference. Any reference to dose should be based on actual dose at the site boundary.

☐ 1.11 Provide brief update to state/county PIO representatives prior to each news conference at the pre-news conference briefing.

☐ 1.12 As requested, provide updates and address issues or concerns of key internal and external stakeholders such as

- Duke Energy board of directors
- Governor of South Carolina
- ECOC

☐ 1.13 Document day decisions, calls, and contacts.

☐ 1.14 Complete turnover sheet for next shift and conduct turnover by reviewing current status, outstanding issues, items for follow up, etc.

☐ 1.15 Verify all checklists and information sheets have been properly completed/signed and leave paperwork for Distribution Coordinator.

2. Sign Off

Completed By: _____ Date: _____

Name:_____ **Date:**_____

1. ONS JIC Technical Liaison Checklist

NOTE:	Manual means of providing information to the Public Spokesperson must be used if **IF** WEBEOC is **NOT** available.

☐ 1.1 Sign in on JIC staffing board.

☐ 1.2 Put on position badge.

NOTE:	• For drills, all written and verbal communication must be prefaced with the words "THIS IS A DRILL". • Logs should be kept to enable re-creation of actions taken.

☐ 1.3 If needed, access the EOF technical liaisons by using the wireless headset/mobile phone and dial the JIC-EOF Conference Bridge: Duke Voice Conferencing System at 704-382-8080, (toll free 866-385-2663) Conferee Code (b)(6).

1.3.1 Instructions for using the wireless phone/headsets are located near the phones/headsets.

1.3.2 Directions for accessing the conference and bridge line are in the Joint Information Center (JIC) Reference Manual, located in the Corporate Communications' file cabinet.

1.3.3 When using the JIC conference and bridge lines, observe the following protocol:

- Identify yourself and your location
- Take turns speaking - do not interrupt
- Acknowledge receipt of information
- Repeat back to ensure important/sensitive information is received/understood
- Re-direct long discussions to a phone line - this is very important to ensure that all parties who need access to the bridge have it and that bridge integrity is maintained

☐ 1.4 A second, dedicated EOF-ONS JIC Technical Liaison Bridge line must be activated to allow one Charlotte and one ONS JIC Technical Liaison to be in constant contact with each other. To activate this dedicated line, dial the Duke Voice Conferencing System at: 704-382-8080 (or toll-free 866-385-2663) and enter Conferee Code (b)(6) (PIP 08-1713, CA 14)

CAUTION: It is imperative that the bridge lines be accessed quickly. Example of alternate communication equipment that may be used if the "normal" headset is not working include:

- another cellular phone with a headset
- a mobile belt pack unit which uses batteries
- a stationary head set

A standard desk phone may be used with assistance from IM/IT in getting a mobile headset to work. A complete search of entire storage cabinet should be made if batteries are needed.

☐ 1.5 Ensure computer is aligned to print to Oconee - EOF - ONE0F101.

☐ 1.6 Work with the EOF Technical Liaison in Charlotte to gather technical information on the event and document this information.

- Access WebEOC following directions at the front of your notebook or EP FAM Section 3.15. This will allow you to view the ENFs on line (ENFs generated by the control room are not on WebEOC) and the TSC and EOF logs.
- Another source of information is the OPS bridge line at 864-885-4908. It is important to note that public affairs responders are **NOT** allowed to talk on this bridge line - this is LISTEN only access. If access to this line is lost or denied, contact the EP Planner in the TSC (864-885-3712) for assistance. Also note that information from this line should be verified through the EOF Technical Liaisons prior to public release.
- Using the DAE, access SDS-Oconee (use Simulator Part-Task for drills) for graphic information of plant status and parameters.
- Refer to "JIC Questions Based on Initiating Event" located in your notebook to anticipate questions that may be asked.

☐ 1.7 Provide information to public spokesperson, as appropriate.

☐ 1.8 Maintain a chronological listing of significant events or obtain copies of the EOF and TSC logs as needed.

CAUTION:
- IT IS MANDATORY that information pertaining to classification changes has been verified with the EOF Technical Liaison and has been shared with states and counties BEFORE being shared with any entity outside Duke Energy.
- Ensure State/Counties have received the ENF for classification from the Control Room/TSC.
- Discussions relating to dose are based on actual dose at the site boundary only. Do **NOT** use projected dose information or ENF dose information at any time.

☐ 1.9 Continue to monitor and update information relative to radiological releases.

☐ 1.10 Work with the EOF Technical Liaisons in Charlotte to track down information to dispel rumors.

☐ 1.11 Provide feedback/information to the JIC concerning community issues/concerns and situational updates.

☐ 1.12 Complete turnover sheet for next shift and conduct turnover by reviewing current status, outstanding issues, items for follow up, etc.

☐ 1.13 Verify all checklists and information sheets have been properly completed/signed and leave paperwork for the Distribution Coordinator.

2. Sign Off

Completed By: _____ Date: _____

1. Process For Accessing Nuclear Forms and Messages

1.1 Turn on/log on computer.

1.2 Double click on "My Computer" icon.

1.3 Double click on the ccr_jic on charf01 drive.

1.3.1 If drive is not listed, select Map Network Drive on the tool bar and type the following path:\\CHARF01\CCR_JIC; then, click OK.

1.4 Double click on Nuclear folder

1.4.1 Double click on the Nuclear Forms folder and then double click on the forms you wish to view/use.

1.4.2 For nuclear messages, double click on the Nuclear Messages folder and then double click on the messages you wish to view/use.

1.4.3 Print forms/messages by clicking on print icon on tool bar.

1. Process For Accessing News Releases

1.1 Turn on/log on computer

1.2 Double click on "My Computer" icon

1.3 Double click on the ccr_jic on charf01 drive.

1.3.1 If drive is not listed, select Map Network Drive on the tool bar and type the following path:\\CHARF01\CCR_jic; then, click OK.

1.4 Double click on the Nuclear Folder

1.5 Double click on the News Releases - Updates folder

1.5.1 Double click on appropriate station - CNS, MNS, ONS, Dual Station Event

1.5.2 Double click on **Drill** or **Emer** as appropriate.

1.5.3 Select the appropriate news release-update template (Alert, SAE, GE) by double clicking on the appropriate document.

1.5.4 As template is completed, re-name and save each new document using a chronological numbering system (e.g.: alert1.doc, alert2.doc, GE1.doc, etc.) **Always label the final news release/update as "Final" to avoid confusion.**

1.5.5 Print the document by selecting the print icon on the tool bar.

1. Process For Media Center Activation/Deactivation

☐ 1.1 Talk to the Government Agency Liaison or Media Liaisons to determine reference materials needed at the Media Center.

NOTE: Equipment/phones are located in the JIC admin room.

Corporate Communications Emergency Planner and/or News Manager should be contacted for assistance in opening the room and placing the equipment.

Phone jacks are located on the sidewall of the auditorium.

A high priority request should be submitted to the Help Desk (704-382-4357) if phones do not work properly.

☐ 1.2 Setup Oconee Media Center by obtaining and placing the following equipment and materials:

- Six-eight (6-8) tables
  - 3 at front of room for speakers
  - 2 for phone bank at side of room
  - 1 at back of room for media information
  - 1 small table outside entrance for registration/security
- Approximately thirty (30) chairs
- Podium
- Six to eight (6-8) media phones
- Six (6) easels
- Oconee Emergency Planning Calendars (minimum of 25)
- Oconee Transient Brochures - English and Spanish (minimum of 25)
- Oconee fact sheets
- Oconee Station/Visitor Brochures (minimum of 25 of each kind)
- Bios for appropriate Duke spokesperson
- Media registration book
- Media green tags
- Agency name cards for all public spokespersons: Oconee County, Pickens County, South Carolina, FEMA, NRC and Duke Energy
- Note pads and pencils (minimum 25 of each)

- Tent Cards
- JIC Reference Manual (for Duke use only)
- Duke Energy logo for speaker's podium, if needed
- Portable hands-free phone
- Two (2) flipcharts
- Posters of EPZ, plant schematic, description of evacuation routes, etc.
- Magnetic shelter/evacuation map (to be used when public protective actions are given by state/county representatives)

☐ 1.3 Close the Media Center when instructed by the Distribution Coordinator or the Corporate Communications Emergency Planner.

1.3.1 Return all equipment to the JIC admin room. Collect supplies and materials for return to the Oconee JIC or the plant.

1.3.2 Give materials developed as a result of the event to the Distribution Coordinator (i.e., news media registration form, news releases, etc.).

Harness, Natalie A

From: Crowl, Don
Sent: Wednesday, December 03, 2014 7:58 PM
To: Harness, Natalie A
Cc: Street, Patrick M; Kaminski, John
Subject: RE: RP/0/A/1000/031 QR request

Need to correct step 1.5.2 of enclosure 4.3 web address for change number 26.

Change number 33, "Activation" is still in the title.

Doesn't step 1.9 of enclosure 4.10 contradict what we said we will not do as stated in 3rd bullet of caution note just before this step? I am not sure why we need step 1.9 if we are worried that the JIC will improperly use this information.

Please address the above, everything else is good.

-----Original Message-----
From: Harness, Natalie A
Sent: Monday, December 01, 2014 2:31 PM
To: Crowl, Don; Street, Patrick M
Cc: Kaminski, John
Subject: RP/0/A/1000/031 QR request

Attached is the scanned / signed 50.54q for RP/0/A/1000/031.

-----Original Message-----
From: onoob303@duke-energy.com [mailto:onoob303@duke-energy.com]
Sent: Monday, December 01, 2014 2:27 PM
To: Harness, Natalie A
Subject: Scan from a Xerox WorkCentre

Please open the attached document. It was scanned and sent to you using a Xerox WorkCentre.

Attachment File Type: PDF

WorkCentre Location: Oob 3rd Fl
Device Name: onoob303

For more information on Xerox products and solutions, please visit http://www.xerox.com

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/1000/031
2. Revision No.: 002
3. Change No.: __ **Note:** if this package is for a change, replace hyphen with a letter.
4. Procedure Title: Joint Information Center Emergency Response Plan
5. For changes only, enter procedure sections affected: __
6. Prepared By: Natalie Harness NH
7. Preparation Date: 11/24/2014
8. PCR Numbers Included in Revision: ONS-14-05880

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.

Form 703-1. Procedure Process Record (PPR)

(R08-10)

Duke Energy

PROCEDURE PROCESS RECORD

(1) ID No. RP/0/A/1000/031

Revision No. 002

PREPARATION

(2) Station OCONEE NUCLEAR STATION

(3) Procedure Title Joint Information Center Emergency Response Plan

(4) Prepared By Natalie Harness Natalie Harness Date 11/24/2014

(5) Requires NSD 228 Applicability Determination?

☒ Yes (New procedure or revision with major changes) - Attach NSD 228 documentation.

☐ No (Minor Editorial Changes)

(6) Reviewed By* Donald A. Grant (QR)(KI) Date 12-9-14

Cross-Disciplinary Review By* (QR)(KI) NA Date 12-9-14

Reactivity Mgmt Review By* (QR) NA Date 12-9-14

Mgmt Involvement Review By* (Ops. Supt.) NA Date 12-9-14

(7) Additional Reviews

Reviewed By* Date

Reviewed By* Date

(8) Approved By* PATRICK M STREET Date 12/10/14

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)*

* *Printed Name and Signature*

Procedure Title: Joint Information Center Emergency Response Plan

SUMMARY OF CHANGES: (DESCRIPTION AND REASON)

General Changes

See attached change matrix.

Revision 002 of RP/0/A/1000/031 consists of the following changes to reflect replacement of Raddose V dose assessment model with Unified RASCAL Interface (URI):

- Enclosure 4.10, ONS JIC Technical Liaison Checklist:
  - Caution Note prior to Step 1.9: Changed "Discussions relating to dose are always based on actual dose at the site boundary only. Do **NOT** use projected dose information or ENF dose information at any time. Raddose V page 3 meets this criteria - **to**:

    "Discussions relating to dose are based on dose at the site boundary only. Do **NOT** use projected dose information or ENF dose information at any time."
  - Step 1.9: Changed "Ensure the EOF Technical Liaisons in Charlotte obtain and provide Raddose V page 3 for radiological release information and that this information is aligned with information being provided to the spokesperson"- **to**:

    "Ensure the EOF Technical Liaisons in Charlotte obtain and provide the Unified RASCAL Interface (URI) Dose Report for radiological release information and that this information is aligned with information being provided to the spokesperson."

Additionally, a note was added indicating this procedure is an implementing procedure for the E Plan and as such requires an effectiveness review under 50.54q for any changes.

Finally many editorial changes were made correcting grammatical and other editorial issues.

PCR Numbers Incorporated

ONS-14-05880

Enclosure

Attachment to 50.54q

RP/0/A/1000/031, Rev 002, Joint Information Center Emergency Response Plan

#	Page /Section	Current	Proposed Change	Reason
1.	Page 2 of 3 Note section	**NOTE:** For an outside line dial "9" and for long distance dial "1".	**NOTE:** • This procedure is identified as an Emergency Plan Implementing Procedure. Prior to finalizing and approving any revisions, it must be forwarded to Emergency Preparedness for review in accordance with 10CFR50.54q Emergency Plan Effectiveness Review. • For an outside line dial "9" and for long distance dial "1".	add first bullet Reference according to 10CFR50.54q to ensure effectiveness review
2.	Page 2 of 3 3. Subsequent Actions	3.1 Respond as required by enclosures designated for the individual position. 3.2 Activate/deactivate the ONS media center by following the process outlined in Enclosure 4.13 (Process For Media Center Activation/Deactivation).	3.1 Obtain the appropriate enclosure for the position to be filled. 3.2 Facilitate activation of JIC per Enclosure 4.13 (Process for Media Center Activation/Deactivation).	Grammatical: rewording for clarity
3.	Page 2 of 3 3. Subsequent Actions 4.1-4.9	4.1 Government Agency Liaison Activation Checklist 4.2 Distribution Coordinator Activation Checklist 4.3 Administrative Support Activation Checklist 4.4 Registration Support Activation Checklist 4.5 Media Monitor Activation Checklist 4.6 Teleproductions Support Coordinator Activation Checklist 4.7 Media Liaison Activation Checklist 4.8 News Manager Activation Checklist 4.9 Public Spokesperson Activation Checklist	4.1 Government Agency Liaison Checklist 4.2 Distribution Coordinator Checklist 4.3 Administrative Support Checklist 4.4 Registration Support Checklist 4.5 Media Monitor Checklist 4.6 Teleproductions Support Coordinator Checklist 4.7 Media Liaison Checklist 4.8 News Manager Checklist 4.9 Public Spokesperson Checklist	Editorial: remove "activation" throughout enclosure titles, redundant information

Attachment to 50.54q

RP/0/A/1000/031, Rev 002, Joint Information Center Emergency Response Plan

#	Page /Section	Current	Proposed Change	Reason
4.	Enclosure 4.1 Page 1 of 4 header	Government Agency Liaison Activation Checklist 1. Government Agency Liaison Activation Checklist	Government Agency Liaison Checklist Name:_____ Date:_____ 1. Government Agency Liaison Checklist	Editorial: add a line to capture name and date removed "Activation" from title
5.	Enclosure 4.1 Page 1 of 4 Note	**NOTE:** For drills, all written and verbal communication must be prefaced with the words "THIS IS A DRILL".	**NOTE:** • For drills, all written and verbal communication must be prefaced with the words "THIS IS A DRILL". • Logs should be kept to enable recreation of actions taken.	Editorial: added the bullet " Logs should be kept to enable recreation of actions taken " based on the expectation for personnel to maintain a log.
6.	Enclosure 4.1 Page 1 of 4 1.3	**Nuclear only**: Contact INPO at 800-321-0614 (backup: 770-644-8000) and NEI by emailing:NEIresponsecenter@nei.org to inform of the drill/emergency and let them know they will be receiving news releases. Please provide the following information: Your name and company A phone number where you can be reached The affected station and unit The situation (drill or event) and classification - direct them to call you, if they need more information. (you may be asked to leave a message on an answering machine when calling INPO)	**Nuclear only**: Contact NEI by emailing: NEIresponsecenter@nei.org to inform of the drill/emergency and let them know they will be receiving news releases. Please provide the following information: Your name and company A phone number where you can be reached The affected station and unit The situation (drill or event) and classification - direct them to call you, if they need more information.	Editorial: removed INPO at 800-321-0614 (backup: 770-644-8000) and (you may be asked to leave a message on an answering machine when calling INPO) per PIP O-14-09026 and added space between : and NEI
7.	Enclosure 4.1 Page 1 of 4 1.4	Work with news manager to ensure JIC is declared JIC operational/activated in a timely manner. Remember that JIC declaration must be coordinated with Charlotte JIC.	Work with the News Manager to ensure JIC is declared JIC operational/activated in a timely manner. Remember that JIC declaration must be coordinated with Charlotte JIC.	Editorial: capitalize the title "News Manager"

Attachment to 50.54q

RP/0/A/1000/031, Rev 002, Joint Information Center Emergency Response Plan

#	Page /Section	Current	Proposed Change	Reason
8.	Enclosure 4.1 Page 1 of 4 1.6	• Determine number of copies of news releases needed for federal/county/state Public Information Officers (PIOs). Give this number to the admin support personnel as quickly as possible after JIC activation • Determine names of PIOs participating in news conferences and give this information to the admin support personnel so that name cards can be made • Verify state rumor control personnel in the JIC have copies of the Oconee Emergency Planning Calendar and all news releases	• Determine number of copies of news releases needed for federal/county/state Public Information Officers (PIOs). Give this number to the admin support personnel as quickly as possible after JIC activation. • Determine names of PIOs participating in news conferences and give this information to the admin support personnel so that name cards can be made. • Verify state rumor control personnel in the JIC have copies of the Oconee Emergency Planning Calendar and all news releases.	Editorial: add periods to 3 sentences
9.	Enclosure 4.1 Page 2 of 4 1.8	Use the Government Liaison ENF - Release chart template (located in the Gov. Agency Liaison folder on "charf01\ccr_jicdrive) to track and verify news release and ENF receipt and distribution.	Use the Government Liaison ENF - Release chart template (located in the Gov. Agency Liaison folder on \\charf01\ccr_jicdrive) to track and verify news release and ENF receipt and distribution.	Editorial: remove single quote mark ad make it 2 backslashes
10.	Enclosure 4.1 Page 2 of 4 1.9	• The JIC is Operational • The JIC is Activated • A media center is being established	• The JIC is Operational. • The JIC is Activated. • A media center is being established.	Editorial: add periods to 3 bullets
11.	Enclosure 4.1 Page 2 of 4 1.11	Keep state/county/federal PIOs up-to-date on event/plant conditions and emergency classification. If other JICs are activated, utilize a bridge line for room updates so other JICs can hear the updates.	Keep State/County/Federal PIOs up-to-date on event/plant conditions and emergency classification. If other JICs are activated, utilize a bridge line for room updates so other JICs can hear the updates.	Editorial: capitalize state/county/ federal
12.	Enclosure 4.1 Page 3 of 4 1.12 bullet 1 & 2	• Serve as liaison between the News Manager and the state and counties to determine news conference times • Notify the Charlotte JIC of the news conference time	• Serve as liaison between the News Manager and the state and counties to determine news conference times. • Notify the Charlotte JIC of the news conference time.	Editorial: periods at end of sentence

Attachment to 50.54q

RP/0/A/1000/031, Rev 002, Joint Information Center Emergency Response Plan

#	Page /Section	Current	Proposed Change	Reason
13.	Enclosure 4.1 Page 3 of 4 1.12 bullet 4	Determine if additional visual aids are needed by state/county PIOs and work with admin support and/or the distribution coordinator to obtain requested visual aids.	Determine if additional visual aids are needed by State/County PIOs and work with admin support and/or the distribution coordinator to obtain requested visual aids.	Editorial: capitalize State/County for title and consistency in procedure
14.	Enclosure 4.1 Page 3 of 4 1.12 bullet 5	Work with the news manager to review the ONS slide deck located in the nuclear visuals folder on the JIC drive (\\charf01\ccr_jic) to identify/verify visuals for the news conference briefings.	Work with the News Manager to review the ONS slide deck located in the nuclear visuals folder on the JIC drive (\\charf01\ccr_jic) to identify/verify visuals for the news conference briefings.	Editorial: capitalize News Manager for title and consistency in procedure
15.	Enclosure 4.1 Page 3 of 4 1.13	Be available/ready to establish contact with the Charlotte JIC and state and county liaisons over the JIC-EOF Conference Bridge by calling, 704-382-8080/ 866-385-2663 and entering conferee code (b)(6).	Be available/ready to establish contact with the Charlotte JIC and State and County Liaisons over the JIC-EOF Conference Bridge by calling, 704-382-8080/ 866-385-2663 and entering Conferee Code (b)(6).	Editorial: capitalize Conferee Code State and County Liaisons for title and consistency in procedure
16.	Enclosure 4.1 Page 3 of 4 1.15	Notify the news manager and the Charlotte JIC (via the JIC-EOF Conference Bridge 704-382-8080/866-385-2663 conferee code (b)(6)) of issues or concerns expressed by state/county/federal PIOs.	Notify the News Manager and the Charlotte JIC (via the JIC-EOF Conference Bridge 704-382-8080/866-385-2663 Conferee Code (b)(6)) of issues or concerns expressed by State/County/Federal PIOs.	Editorial: capitalize News Manager, Conferee Code, & by State/County/ Federal for title and consistency in procedure
17.	Enclosure 4.1 Page 4 of 4 1.16	Verify that Duke Energy news releases are being provided to federal/state/county PIO representatives and state rumor control in the JIC.	Verify that Duke Energy news releases are being provided to State/County/Federal PIO Representatives and State Rumor Control in the JIC.	Editorial: capitalize State/County/Federal, Representatives, & State Rumor Control consistency in procedure

Attachment to 50.54q

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#	Page /Section	Current	Proposed Change	Reason
18.	Enclosure 4.1 Page 4 of 4 1.17	Verify that Duke Energy news releases are being received by the state/county emergency operations centers (EOCs). This may be done by monitoring the email distribution list or share drives set up by the agencies to share information. (Discuss this with the Emergency Communications Planner.)	Verify that Duke Energy news releases are being received by the State/County Emergency Operations Centers (EOCs). This may be done by monitoring the email distribution list or share drives set up by the agencies to share information. (Discuss this with the Emergency Communications Planner.)	Editorial: capitalize State/County & Emergency Operations Centers for consistency in procedure
19.	Enclosure 4.2 Page 1 of 3 header	Distribution Coordinator Activation Checklist 1. Distribution Coordinator Activation Checklist	Distribution Coordinator Checklist Name:_____ Date:_____ 1. Distribution Coordinator Checklist	Editorial: add a line to capture name and date removed "Activation" from title
20.	Enclosure 4.2 Page 1 of 3 Note	**NOTE:** For drills, all written and verbal communication must be prefaced with the words "THIS IS A DRILL".	**NOTE:** • For drills, all written and verbal communication must be prefaced with the words "THIS IS A DRILL". • Logs should be kept to enable recreation of actions taken.	Editorial: added the bullet " Logs should be kept to enable recreation of actions taken " based on the expectation for personnel to maintain a log.
21.	Enclosure 4.2 Page 2 of 3 1.8	Ensure that a registration process (i.e. sign-up sheets and security) is implemented for the Joint Information Center and the Media Center. Request security officers to provide registration support (one for JIC, one for media center - as applicable).	Ensure that a registration process (i.e. sign-up sheets and Security) is implemented for the Joint Information Center and the Media Center. Request Security Officers to provide registration support (one for JIC, one for media center - as applicable).	Editorial:capitalize Security and Security Officers for consistency in procedure
22.	Enclosure 4.3 Page 1 of 3 header	Administrative Support Activation Checklist 1. Administrative Support Activation Checklist	Administrative Support Checklist Name:_____ Date:_____ 1. Administrative Support Checklist	Editorial:add a line to capture name and date removed "Activation" from title

Attachment to 50.54q

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#	Page /Section	Current	Proposed Change	Reason
23.	Enclosure 4.3 Page 1 of 3 Note	NOTE: For drills, all written and verbal communication must be prefaced with the words "THIS IS A DRILL".	NOTE: • For drills, all written and verbal communication must be prefaced with the words "THIS IS A DRILL". • Logs should be kept to enable recreation of actions taken.	Editorial: added the bullet " Logs should be kept to enable recreation of actions taken " based on the expectation for personnel to maintain a log.
24.	Enclosure 4.3 Page 1 of 3 1.4	Work with the Government Agency Liaison to provide administrative support to state/county/federal participants. Determine: • Number of copies needed for Duke, federal, state and county PIOs • Distribution of faxes, news releases, ENFs, incoming faxes and other documents within the JIC	Work with the Government Agency Liaison to provide administrative support to State/County/Federal participants. Determine: • Number of copies needed for Duke, Federal, State and County PIOs. • Distribution of faxes, news releases, ENFs, incoming faxes and other documents within the JIC.	Editorial: capitalize State/ County/Federal for consistency in procedure and added periods at the end of both bulleted sentences
25.	Enclosure 4.3 Page 1 of 3 1.5	Create name tents for each spokesperson (Duke, state and county) and place name tents at the speakers table in the Media Center PRIOR to the first news conference.	Create name tents for each spokesperson (Duke, State/County/Federal) and place name tents at the speakers table in the Media Center PRIOR to the first news conference.	Editorial: capitalize State/County (add Federal) for consistency in procedure
26.	Enclosure 4.3 Page 1 of 3 1.5	1.5.1 Obtain names of PIO spokespersons for Duke and Federal, State and County agencies 1.5.2 Use the name tent template of the JIC share drive (charf01\ccr_jic) to create personalized name tents for each PIO 1.5.3 Place name tents at the speakers' table in the media center PRIOR to the first news conference	1.5.1 Obtain names of PIO spokespersons for Duke and Federal, State and County agencies. 1.5.2 Use the name tent template of the JIC share drive (\\charf01\ccr_jic) to create personalized name tents for each PIO. 1.5.3 Place name tents at the speakers' table in the media center PRIOR to the first news conference.	Editorial: added periods at the end of sentences for 1.5.1, 1.5.2, & 1.5.3 add\\ to web address

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#	Page /Section	Current	Proposed Change	Reason
27.	Enclosure 4.3 Page 2 of 3 1.7	If requested, monitor your email or a share drive for state/county/federal news releases being shared via a central distribution system.	If requested, monitor your email or a share drive for State/County/Federal news releases being shared via a central distribution system.	Editorial: capitalize State/County and Representative for consistency in procedure
28.	Enclosure 4.3 Page 2 of 3 note	Emergency Notification Forms (ENFs) should only be given to the Duke representatives in the Technical Liaison room and to the Government Agency Liaison. They should **NOT** be given to state/county representatives unless specifically requested.	Emergency Notification Forms (ENFs) should only be given to the Duke Representatives in the Technical Liaison room and to the Government Agency Liaison. They should **NOT** be given to State/County Representatives unless specifically requested.	Editorial: capitalize State/County and Representative for consistency in procedure
29.	Enclosure 4.3 Page 2 of 3 1.8	Work with the Government Agency Liaison to determine distribution of news releases and other information to federal, state and county officials located in the JIC.	Work with the Government Agency Liaison to determine distribution of news releases and other information to Federal, State and County Officials located in the JIC.	Editorial: capitalize Federal/State/ County and Officials for consistency in procedure
30.	Enclosure 4.3 Page 2 of 3 1.9	Post a copy of each ENF and news releases (Duke, state, county, NRC) in the JIC.	Post a copy of each ENF and news releases (Duke, State, County, NRC) in the JIC.	Editorial: capitalize State/County for consistency in procedure
31.	Enclosure 4.4 Page 1 of 2 header	Registration Support Activation Checklist 1. Registration Support Activation Checklist	Registration Support Checklist Name:_____ Date:_____ 1. Registration Support Checklist	Editorial: add a line to capture name and date removed "Activation" from title

Attachment to 50.54q

RP/0/A/1000/031, Rev 002, Joint Information Center Emergency Response Plan

#	Page /Section	Current	Proposed Change	Reason
32.	Enclosure 4.4 Page 1 of 2 Note	**NOTE:** For drills, all written and verbal communication must be prefaced with the words "THIS IS A DRILL".	**NOTE:** • For drills, all written and verbal communication must be prefaced with the words "THIS IS A DRILL". • Logs should be kept to enable recreation of actions taken.	Editorial: added the bullet " Logs should be kept to enable recreation of actions taken " based on the expectation for personnel to maintain a log.
33.	Enclosure 4.5 Page 1 of 2 header	Media Monitor Activation Checklist 1. Media Monitor Activation Checklist	Media Monitor Checklist Name:_____ Date:_____ 1. Media Monitor Checklist	Editorial: add a line to capture name and date removed "Activation" from title
34.	Enclosure 4.5 Page 1 of 2 Note	**NOTE:** For drills, all written and verbal communication must be prefaced with the words "THIS IS A DRILL".	**NOTE:** • For drills, all written and verbal communication must be prefaced with the words "THIS IS A DRILL". • Logs should be kept to enable recreation of actions taken.	Editorial: added the bullet " Logs should be kept to enable recreation of actions taken " based on the expectation for personnel to maintain a log.
35.	Enclosure 4.6 Page 1 of 1 header	Teleproductions Support Activation Checklist 1. Teleproductions Support Activation Checklist	Teleproductions Support Checklist 1. Teleproductions Support Checklist	Editorial: removed "Activation" from title
36.	Enclosure 4.6 Page 1 of 1 Note	**NOTE:** For drills, all written and verbal communication must be prefaced with the words "THIS IS A DRILL".	**NOTE:** • For drills, all written and verbal communication must be prefaced with the words "THIS IS A DRILL". • Logs should be kept to enable recreation of actions taken.	Editorial: added the bullet " Logs should be kept to enable recreation of actions taken " based on the expectation for personnel to maintain a log.

Attachment to 50.54q

RP/0/A/1000/031, Rev 002, Joint Information Center Emergency Response Plan

#	Page /Section	Current	Proposed Change	Reason
37.	Enclosure 4.7 Page 1 of 3 header	Media Liaison Activation Checklist 1. Media Liaison Activation Checklist	Media Liaison Checklist Name:_____ Date:_____ 1. Media Liaison Checklist	Editorial: add a line to capture name and date removed "Activation" from title
38.	Enclosure 4.7 Page 1 of 3 Note	**NOTE:** For drills, all written and verbal communication must be prefaced with the words "THIS IS A DRILL".	**NOTE:** • For drills, all written and verbal communication must be prefaced with the words "THIS IS A DRILL". • Logs should be kept to enable recreation of actions taken.	Editorial: added the bullet " Logs should be kept to enable recreation of actions taken " based on the expectation for personnel to maintain a log.
39.	Enclosure 4.7 Page 1 of 3 1.3	Other sources of information include the JIC share drive, the CSC Sharepoint at http://wss.duke-energy.com/sites/Customer_Service_Event_Communications/ default.aspx, the technical liaison bridge, and the internet	Other sources of information include the JIC share drive, the CSC Sharepoint at http://wss.duke-energy.com/sites/Customer_Service_Event_Communications/ default.aspx, the Technical Liaison bridge, and the internet.	Editorial: capitalize Technical Liaison for consistency in procedure add period at the end of sentence
40.	Enclosure 4.7 Page 1 of 3 1.5	Contact the Media Coordinator in Charlotte via the JIC media bridge line (704-382-8080/866-385-2663 conferee code (b)(6)) or their direct phone (704-382-0611) to provide:	Contact the Media Coordinator in Charlotte via the JIC media bridge line (704-382-8080/866-385-2663 Conferee Code (b)(6) or their direct phone (704-382-0611) to provide:	Editorial: capitalize Conferee Code for consistency in procedure
41.	Enclosure 4.7 Page 2 of 3 1.7	During news conferences, one Media Liaison MUST dial the JIC-EOF Conference Bridge (704-382-8080/866-385-2663, conferee code (b)(6)) to keep abreast of plant status:	During news conferences, one Media Liaison MUST dial the JIC-EOF Conference Bridge (704-382-8080/866-385-2663, Conferee Code (b)(6)) to keep abreast of plant status:	Editorial: capitalize Conferee Code for consistency in procedure
42.	Enclosure 4.7 Page 2 of 3 1.8	Report to the Media Coordinator or Media Integrator (via the JIC Media bridge 704-382-8080/866-385-2663 conferee code (b)(6)):	Report to the Media Coordinator or Media Integrator (via the JIC Media bridge 704-382-8080/866-385-2663 Conferee Code (b)(6)):	Editorial: capitalize Conferee Code for consistency in procedure

Attachment to 50.54q

RP/0/A/1000/031, Rev 002, Joint Information Center Emergency Response Plan

#	Page /Section	Current	Proposed Change	Reason
43.	Enclosure 4.7 Page 2 of 3 1.9 bullet 4	Working with Government Agency Liaison to update shelter/evacuation map after the state/county spokespersons arrive for the news conference/briefing to announce public protective actions (Caution: Do **NOT** update prior to their arrival.)	Working with Government Agency Liaison to update shelter/evacuation map after the State/County Spokespersons arrive for the news conference/briefing to announce public protective actions (Caution: Do **NOT** update prior to their arrival.)	Editorial: capitalize State/County Spokespersons for consistency in procedure
44.	Enclosure 4.8 Page 1 of 4 header	News Manager Activation Checklist 1. News Manager Activation Checklist	News Manager Checklist Name: _____ Date: _____ 1. News Manager Checklist	Editorial: add a line to capture name and date removed "Activation" from title
45.	Enclosure 4.8 Page 1 of 4 Note	**NOTE:** For drills, all written and verbal communication must be prefaced with the words "THIS IS A DRILL".	**NOTE:** • For drills, all written and verbal communication must be prefaced with the words "THIS IS A DRILL". • Logs should be kept to enable recreation of actions taken.	Editorial: added the bullet " Logs should be kept to enable recreation of actions taken " based on the expectation for personnel to maintain a log.
46.	Enclosure 4.8 Page 2 of 4 1.5 bullet 2 & sub bullet 1	Verifying information has been provided by EOF/ONS JIC technical liaison (EOF logs, etc.).... If injuries/fatalities are involved, review the corporate guideline "Responding to Serious Injuries or Fatalities" (located on the JIC drive, \charf01\ccr_jic\procedures-guidance folder) with the public spokesperson PRIOR to news conferences\briefings.	Verifying information has been provided by EOF/ONS JIC Technical Liaison (EOF logs, etc.).... If injuries/fatalities are involved, review the corporate guideline "Responding to Serious Injuries or Fatalities" (located on the JIC drive,\\charf01\ccr_jic\procedures-guidance folder) with the public spokesperson PRIOR to news conferences\briefings.	Editorial: capitalize Technical Liaison for consistency in procedure & added a \ to web address

Attachment to 50.54q

RP/0/A/1000/031, Rev 002, Joint Information Center Emergency Response Plan

#	Page /Section	Current	Proposed Change	Reason
47.	Enclosure 4.8 Page 2 of 4 1.8 & bullet 1 & 4	Work with the government agency liaison in the Oconee JIC and the public information manager in the Charlotte JIC to: • Determine a time for pre-news conference briefing with state/county/federal PIOs • Assign media liaison stationed in the Oconee Media Center to the JIC-EOF Conference Bridge (704-382-8080/866-385-2663, conferee code (b)(6)) to keep up with plant status and emergency classification and to notify you via text, email or note if conditions change.	Work with the Government Agency Liaison in the Oconee JIC and the Public Information Manager in the Charlotte JIC to: • Determine a time for pre-news conference briefing with State/County/Federal PIOs. • Assign Media Liaison stationed in the Oconee Media Center to the JIC-EOF Conference Bridge (704-382-8080/866-385-2663, Conferee Code (b)(6)) to keep up with plant status and emergency classification and to notify you via text, email or note if conditions change.	Editorial: capitalize Government Agency Liaison, Public Information Manager, State/County/ Federal, Media Liaison, and Conferee Code for consistency in procedure period after PIOs (first bullet)
48.	Enclosure 4.8 Page 3 of 4 note	... news manager to listen in with minimal interference.	... News Manager to listen in with minimal interference.	Editorial: capitalize News Manager for consistency in procedure
49.	Enclosure 4.8 Page 3 of 4 1.9	Accompany and assist the public spokesperson during all news briefings, news conferences and interviews.	Accompany and assist the Public Spokesperson during all news briefings, news conferences and interviews.	Editorial: capitalize Public Spokesperson for consistency in procedure
50.	Enclosure 4.8 Page 3 of 4 1.10	When preparing for news conferences with state and county public information officers,...	When preparing for news conferences with State and County Public Information Officers,...	Editorial: capitalize Public Spokesperson for consistency in procedure
51.	Enclosure 4.8 Page 3 of 4 1.11 & bullet 4	Serve as the news conference moderator/facilitator by using information gathered on the... ... conferee code...	Serve as the News Conference Moderator/Facilitator by using information gathered on the... Conferee Code...	Editorial: capitalize News Conference Moderator/ Facilitator & Conf Code for consistency in procedure

Attachment to 50.54q

RP/0/A/1000/031, Rev 002, Joint Information Center Emergency Response Plan

#	Page /Section	Current	Proposed Change	Reason
52.	Enclosure 4.9 Page 1 of 2 header	Public Spokesperson Activation Checklist 1. Public Spokesperson Activation Checklist	Public Spokesperson Checklist Name:_____ Date:_____ 1. Public Spokesperson Checklist	Editorial: add a line to capture name and date removed "Activation" from title
53.	Enclosure 4.9 Page 1 of 2 Note	**NOTE:** For drills, all written and verbal communication must be prefaced with the words "THIS IS A DRILL".	**NOTE:** • For drills, all written and verbal communication must be prefaced with the words "THIS IS A DRILL". • Logs should be kept to enable recreation of actions taken.	Editorial: added the bullet " Logs should be kept to enable recreation of actions taken " based on the expectation for personnel to maintain a log.
54.	Enclosure 4.9 Page 1 of 2 1.3	Work with the news manager and ONS JIC technical liaison to gather information.	Work with the News Manager and ONS JIC Technical Liaison to gather information.	Editorial: capitalize News Manager and ONS JIC Technical Liaison for consistency in procedure
55.	Enclosure 4.9 Page 1 of 2 1.10	Request news manager arrange for visual aids that will be needed (if appropriate) for press conference. Visual aids are located on the JIC share drive in the nuclear/nuclear visuals folder.	Request News Manager arrange for visual aids that will be needed (if appropriate) for press conference. Visual aids are located on the JIC share drive in the nuclear/nuclear visuals folder.	Editorial: capitalize News Manager and ONS JIC Technical Liaison for consistency in procedure
56.	Enclosure 4.10 Page 1 of 3 header	1. ONS JIC Technical Liaison Activation Checklist	Name:_____ Date:_____ 1. ONS JIC Technical Liaison Checklist	Editorial: add a line to capture name and date removed "Activation" from title

Attachment to 50.54q

RP/0/A/1000/031, Rev 002, Joint Information Center Emergency Response Plan

#	Page /Section	Current	Proposed Change	Reason
57.	Enclosure 4.10 Page 1 of 3 Note	**NOTE:** For drills, all written and verbal communication must be prefaced with the words "THIS IS A DRILL".	**NOTE:** • For drills, all written and verbal communication must be prefaced with the words "THIS IS A DRILL". • Logs should be kept to enable recreation of actions taken.	Editorial: added the bullet " Logs should be kept to enable recreation of actions taken " based on the expectation for personnel to maintain a log.
58.	Enclosure 4.10 Page 1 of 3 1.3	... conferee code...	... Conferee Code...	Editorial: capitalize Conf Code for consistency in procedure
59.	Enclosure 4.10 Page 1 of 3 1.4	... conferee code...	... Conferee Code...	Editorial: capitalize Conf Code for consistency in procedure
60.	Enclosure 4.10 Page 2 of 3 1.6 & bullet 2	Work with the EOF technical liaison in Charlotte to gather technical information on the event and document this information. ... EOF Technical Liaison...	Work with the EOF Technical Liaison in Charlotte to gather technical information on the event and document this information. ... EOF Technical Liaison...	Editorial: capitalize Technical Liaison for consistency in procedure
61.	Encl. 4.10 Page 3 of 3 CAUTION	**CAUTION:** IT IS MANDATORY that information pertaining to classification changes has been verified with the EOF Technical Liaison and has been shared with states and counties BEFORE being shared with any entity outside Duke Energy. **CAUTION:** Discussions relating to dose are always based on actual dose at the site boundary only. Do **NOT** use projected dose information or ENF dose information at any time. Raddose V page 3 meets this criteria.	**CAUTION:** • IT IS MANDATORY that information pertaining to classification changes has been verified with the EOF Technical Liaison and has been shared with states and counties BEFORE being shared with any entity outside Duke Energy. • Ensure State/Counties have received the ENF for classification from the Control Room/TSC. • Discussions relating to dose are based on dose at the site boundary only. Do **NOT** use projected dose information or ENF dose information at any time.	Editorial: placed both CAUTION notes in a single box and added a new caution note "Ensure State/Counties have received the ENF for classifi9cation from the Control Room/TSC." Removed the following words from bullet 3: always, actual, and Raddose V page 3 meets this criteria.

Attachment to 50.54q

RP/0/A/1000/031, Rev 002, Joint Information Center Emergency Response Plan

#	Page /Section	Current	Proposed Change	Reason
62.	Encl. 4.10 Page 3 of 3 1.9	Raddose V page 3 meets this criteria.	Continue to monitor and update information relative to radiological releases.	Editorial: remove reference to Raddose V
63.	Encl. 4.11 Page 1 of 1 3	Double click on the ccr_jic on charf01 drive. a. If drive is not listed, select Map Network Drive on the tool bar and type the following path: \\CHARF01\CCR_JIC; then, click OK.	Double click on the ccr_jic on charf01 drive. a. If drive is not listed, select Map Network Drive on the tool bar and type the following path: \\CHARF01\CCR_JIC; then, click OK.	Editorial: remove underline from internet address
64.	Encl. 4.12 Page 1 of 1 3	Double click on the ccr_jic on charf01 drive. a. If drive is not listed, select Map Network Drive on the tool bar and type the following path: \\CHARF01\CCR_JIC; then, click OK.	Double click on the ccr_jic on charf01 drive. a. If drive is not listed, select Map Network Drive on the tool bar and type the following path: \\CHARF01\CCR_JIC; then, click OK.	Editorial: remove underline from internet address
65.	Encl. 4.13 Page 1 of 2 Note	....A high priority request should be submitted to SPOC (704-382-7762) if phones do not work properly.	....A high priority request should be submitted to the Help Desk (704-382-4357) if phones do not work properly.	Editorial: corrected phone number
66.	Encl. 4.13 Page 2 of 2 first 2 bullets	• Overhead projector and/or light show, as needed • Transparencies (if they will be used)	• Tent Cards	Editorial: delete overhead projector (obsolete equipment) and add tent cards

APPENDIX C. APPLICABILITY DETERMINATION (Rev. 10)

PART I – ACTIVITY DESCRIPTION

DUKE ENERGY CAROLINAS, LLC SITE			UNIT(S)		
☒ Oconee	☐ McGuire	☐ Catawba	☒ Unit 1	☒ Unit 2	☒ Unit 3

ACTIVITY TITLE/DOCUMENT/REVISION: RP/0/A/1000/031, Rev 002, Joint Information Center Emergency Response Plan ONS-14-05880

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?	☒ NO	☐ YES	If YES, process as a license amendment per NSD 227.
2.	Quality Assurance Topical?	☒ NO	☐ YES	If YES, seek assistance from Independent Nuclear Oversight.
3.	Security Plans? (See Appendix H)	☒ NO	☐ YES	If YES, process per the Nuclear Security Manual.
4.	Emergency Plan?	☐ NO	☒ YES	If YES, process per the Emergency Planning Functional Area Manual.
5.	Inservice Testing Program Plan?	☒ NO	☐ YES	If YES, process per site IST Program for ASME code compliance and related facility changes.
6.	Inservice Inspection Program Plan?	☒ NO	☐ 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?	☒ NO	☐ YES	If YES, evaluate activity in accordance with NSD 320.
	7a -Utilize Appendix E to address Fire Protection Program Plan Impact.		☒	Check to confirm use of Appendix E Screening Questions.
8.	Regulatory Commitments?	☒ NO	☐ YES	If YES, process per NSD 214.
9.	Code of Federal Regulations?	☒ NO	☐ YES	If YES, contact the Regulatory Affairs group.
10.	Programs and manuals listed in the Administrative Section of the TS?	☒ NO	☐ 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
17.	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. IF YES, process per NSD 220.	☒ NO	☐ YES

PART V - SIGNOFF

(Print Name) Donald H. Grant (Sign) [signature] DATE 12-5-14

Applicability Determination Preparer

Form 703-2. Procedure Change Process Record
(R08-10)

Duke Energy

PROCEDURE CHANGE PROCESS RECORD

(1) ID No. RP/0/A/1000/031 Revision No.002

(2) Station: OCONEE NUCLEAR STATION

(3) Procedure Title: Joint Information Center Emergency Response Plan

(4) Section(s) of Procedure Affected:

Pages 2-3 & Enclosures 4.1, 4.2, 4.3, 4.4, 4.5, 4.6, 4.7, 4.8, 4.9, 4.10, 4.11, 4.12, & 4.13

(5) Requires NSD 228 Applicability Determination?

☒ Yes (Procedure change with major changes) - Attach NSD 228 documentation.
☐ No (Procedure change with minor changes)

(6) Description of Change: *(Attach additional pages, if necessary.)*
See attached change matrix.

(7) Reason for Change:
Revision 002 of RP/0/A/1000/031 consists of the following changes to reflect replacement of Raddose V dose assessment model with Unified RASCAL Interface (URI):

- Enclosure 4.10, ONS JIC Technical Liaison Checklist:
  - Caution Note prior to Step 1.9: Changed "Discussions relating to dose are always based on actual dose at the site boundary only. Do **NOT** use projected dose information or ENF dose information at any time. Raddose V page 3 meets this criteria - **to**:

    "Discussions relating to dose are based on dose at the site boundary only. Do **NOT** use projected dose information or ENF dose information at any time."
  - Step 1.9: Changed "Ensure the EOF Technical Liaisons in Charlotte obtain and provide Raddose V page 3 for radiological release information and that this information is aligned with information being provided to the spokesperson"- **to**:

    "Ensure the EOF Technical Liaisons in Charlotte obtain and provide the Unified RASCAL Interface (URI) Dose Report for radiological release information and that this information is aligned with information being provided to the spokesperson."

Additionally, a note was added indicating this procedure is an implementing procedure for the E Plan and as such requires an effectiveness review under 50.54q for any changes.

Finally many editorial changes were made correcting grammatical and other editorial issues.

(8) Prepared By Natalie Harness Natalie Harness Date 11/24/2014

(9) Reviewed By* Donald A. Grant (QR)(KI) Date 12-9-14

Cross-Disciplinary Review By* _____ (QR)(KI) NA Date 12-9-14

Reactivity Mgmt. Review By* _____ (QR) NA Date 12-9-14

Mgmt. Involvement Review By* _____ (Ops. Supt.) NA Date 12-9-14

(10) Additional Reviews

Reviewed By* _____ Date _____

Reviewed By* _____ Date _____

(11) Approved By* Patrick H Stacey Date 12/10/14

* *Printed Name and Signature*

§50.54(q) Screening Evaluation Form

§50.54(q) Screening Evaluation Form Activity Description and References:
RP/0/A/1000/031, Joint Information Center Emergency Response Plan, Revision 002

BLOCK 1

Revision 002 of RP/0/A/1000/031 consists of the following changes to reflect replacement of Raddose V dose assessment model with Unified RASCAL Interface (URI):

- Enclosure 4.10, ONS JIC Technical Liaison Checklist:
  - Caution Note prior to Step 1.9: Changed "Discussions relating to dose are always based on actual dose at the site boundary only. Do **NOT** use projected dose information or ENF dose information at any time. Raddose V page 3 meets this criteria - **to**:
    "Discussions relating to dose are based on dose at the site boundary only. Do **NOT** use projected dose information or ENF dose information at any time."
  - Step 1.9: Changed "Ensure the EOF Technical Liaisons in Charlotte obtain and provide Raddose V page 3 for radiological release information and that this information is aligned with information being provided to the spokesperson"- **to**:
    "Ensure the EOF Technical Liaisons in Charlotte obtain and provide the Unified RASCAL Interface (URI) Dose Report for radiological release information and that this information is aligned with information being provided to the spokesperson."

Additionally, a note was added indicating this procedure is an implementing procedure for the E Plan and as such requires an effectiveness review under 50.54q for any changes. Finally many editorial changes were made correcting grammatical and other editorial issues.

Activity Scope: BLOCK 2

☒ The activity is a *change* to the *emergency plan*

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

Change Type: BLOCK 3

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

Note:

Change Type: BLOCK 4

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

Planning Standard Impact Determination: BLOCK 5

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

***Risk Significant Planning Standards**

☐ The proposed activity does not impact a Planning Standard

Commitment Impact Determination: BLOCK 6

☐ The activity does involve a site specific EP commitment

Record the commitment or commitment reference: _____

☒ The activity does not involve a site specific EP commitment

Screening Evaluation Results: BLOCK 7

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

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

Preparer Name: Natalie Harness	Preparer Signature Natalie Harness	Date: 11/24/14
Reviewer Name: Don Crowl	Reviewer Signature	Date: 12-8-14

§50.54(q) Effectiveness Evaluation Form

Activity Description and References: BLOCK 1

RP/0/A/1000/031, Rev 002, Joint Information Center Emergency Response Plan

Revision 002 of RP/0/A/1000/031 consists of the following changes to reflect replacement of Raddose V dose assessment model with Unified RASCAL Interface (URI):

- Enclosure 4.10, ONS JIC Technical Liaison Checklist:
  - Caution Note prior to Step 1.9: Changed "Discussions relating to dose are always based on actual dose at the site boundary only. Do **NOT** use projected dose information or ENF dose information at any time. Raddose V page 3 meets this criteria - to:

    "Discussions relating to dose are based on dose at the site boundary only. Do **NOT** use projected dose information or ENF dose information at any time."
  - Step 1.9: Changed "Ensure the EOF Technical Liaisons in Charlotte obtain and provide Raddose V page 3 for radiological release information and that this information is aligned with information being provided to the spokesperson"- to:

    "Ensure the EOF Technical Liaisons in Charlotte obtain and provide the Unified RASCAL Interface (URI) Dose Report for radiological release information and that this information is aligned with information being provided to the spokesperson."

Additionally, a note was added indicating this procedure is an implementing procedure for the E Plan and as such requires an effectiveness review under 50.54q for any changes. Finally many editorial changes were made correcting grammatical and other editorial issues.

Activity Type: BLOCK 2

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

Impact and Licensing Basis Determination: BLOCK 3

Licensing Basis:

10 CFR 50.47(b)(7) states: Information is made available to the public on a periodic basis on how they will be notified and what their initial actions should be in an emergency (e.g., listening to a local broadcast station and remaining indoors), the principal points of contact with the news media for dissemination of information during an emergency (including the physical location or locations) are established in advance, and procedures for coordinated dissemination of information to the public are established.
NUREG0654 II.G.4a. Each principal organization shall designate a spokesperson who should have access to all necessary information.
ONS E Plan Section G.4.a states: Public Spokesperson. A public spokesperson will provide plant status and company information during scheduled news conferences and media briefings at a designated media center. Designated public spokespersons are the chief nuclear officer and his direct reports, and their designees.
RG 1.219 lists the (2) emergency planning functions associated with 10 CFR 50.47(b)(7) with only 1 impacted:
(2) Coordinated dissemination of public information during emergencies is established.

10CFR50.47.b(16) Responsibilities for plan development and review and for distribution of emergency plans are established, and planners are properly trained.
NUREG 0654 P.7 states: Each plan shall contain as an appendix listing, by title, procedures required to implement the plan. The listing shall include the section(s)of the plan to be implemented by each procedure.
ONS E Plan Section P.7 states: Implementing Procedures. Written procedures will be established, implemented and maintained covering the activities associated with emergency plan implementation. Each procedure and changes thereto, shall be approved by the responsible manager prior to implementation. Implementing procedures are indexed and cross referenced to the section applicable in NUREG 0654. (Figure P-1)
RG 1. 219 lists the (2) emergency planning functions associated with 10 CFR 50.47(b)(16) with 1 being impacted
(1) Responsibility for emergency plan development and review is established

Compliance Evaluation and Conclusion: BLOCK 4

1. Evaluation:

10 CFR 50.47(b)(7) states: Information is made available to the public on a periodic basis on how they will be notified and what their initial actions should be in an emergency (e.g., listening to a local broadcast station and remaining indoors), the principal points of contact with the news media for dissemination of information during an emergency (including the physical location or locations) are established in advance, and procedures for coordinated dissemination of information to the public are established.
NUREG0654 II.G.4a. Each principal organization shall designate a spokesperson who should have access to all necessary information.
ONS E Plan Section G.4.a states: Public Spokesperson. A public spokesperson will provide plant status and company information during scheduled news conferences and media briefings at a designated media center. Designated public spokespersons are the chief nuclear officer and his direct reports, and their designees
RG 1.219 lists the (2) emergency planning functions associated with 10 CFR 50.47(b)(7) with 1 being impacted:
(2) Coordinated dissemination of public information during emergencies is established.
The proposed change to this procedure involves a change in the location of the report (was provided using RADDOSE is now being provided by URI) which provides information to be used by the spokesperson. The actual information has not been changed nor the disposition of such information. Therefore the proposed changes continue to ensure compliance with the regulations and the ONS E Plan.

10CFR50.47.b(16) Responsibilities for plan development and review and for distribution of emergency plans are established, and planners are properly trained.
NUREG 0654 P.7 states: Each plan shall contain as an appendix listing, by title, procedures required to implement the plan. The listing shall include the section(s)of the plan to be implemented by each procedure.
ONS E Plan Section P.7 states: Implementing Procedures. Written procedures will be established, implemented and maintained covering the activities associated with emergency plan implementation. Each procedure and changes thereto, shall be approved by the responsible manager prior to implementation. Implementing procedures are indexed and cross referenced to the section applicable in NUREG 0654. (Figure P-1).
RG 1. 219 lists the (2) emergency planning functions associated with 10 CFR 50.47(b)(16) with 1 being impacted
(1) Responsibility for emergency plan development and review is established.
The addition of a note that informs the reviewers/revisers of the procedure that the procedures is an E Plan implementing procedure and that as such requires a 50.54q effectiveness review, ensures that appropriate reviews are provided. Therefore the proposed changes continue to ensure compliance with the regulations and the ONS E Plan.

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

Reduction in Effectiveness (RIE) Evaluation and Conclusion: BLOCK 5

1. Evaluation:

Change #61&62 described in Revision 002 of RP/0/A/1000/031 associated with the change from RADDOSE to URI does not result in a reduction of effectiveness of facilities, response organizations, or response equipment. These changes include changing "Raddose V page 3" to "Unified RASCAL Interface (URI) Dose Report" in a Caution note and a step for the JIC Technical Liaison when communicating radiological release information. The change replaces reference to where to get a report used by the spokesperson from RADDOSE to URI. The same information is contained in both reports, and therefore there is no reduction in effectiveness as a result of this minor change.

Change #1 in RP/0/A/1000/031 associated with the note indicating the need for a 50.54q effectiveness review for any change to this procedure is being done to ensure that this procedure receives the appropriate reviews prior to approval., and therefore there is no reduction in effectiveness as a result of this minor change.
Changes #2 thru #60 and 63-66 are editorial. Changes for spelling, grammar, titles, and format were made to ensure consistency throughout the procedure. There was not change in intent of any steps as a result of the editorial changes These changes being editorial do not reduce the effectiveness of the emergency plan.

Therefore as can be seen by the above evaluation the proposed changes do not reduce the effectiveness of the e plan.
Conclusion:
The proposed activity ☐ does / ☒ does not constitute a RIE.

Effectiveness Evaluation Results BLOCK 6

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

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

Preparer Name: Natalie Harness	Preparer Signature Natalie Harness	Date: 11/24/2014
Reviewer Name: Don Crowl	Reviewer Signature Don Crowl	Date: 12-9-14
Approver Name: Pat Street	Approver Signature Pat Street	Date: 12/10/14

DUKE ENERGY.

Scott L. Batson
Vice President
Oconee Nuclear Station

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ONS-2015-084

July 9, 2015 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 Revision 2015-005

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

This revision is being submitted in accordance with 10 CFR 50.54(q) and does not reduce the effectiveness of the Emergency Plan. 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, two copies of this revision are being provided to the NRC, Region II, Atlanta, Georgia.

Sincerely,

Scott L. Batson
Vice President
Oconee Nuclear Station

Attachments:
Revision Instructions
Emergency Plan Revision 2015-005
10 CFR 50.54(q) Evaluation(s)

AX45
NRR

ONS-2015-071

U. S. Nuclear Regulatory Commission
July 2, 2015

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Mr. Eddy Crowe
NRC Senior Resident Inspector
Oconee Nuclear Station

ELL - EC2ZF

June 25, 2015

OCONEE NUCLEAR STATION

SUBJECT: Emergency Plan Revision 2015-005

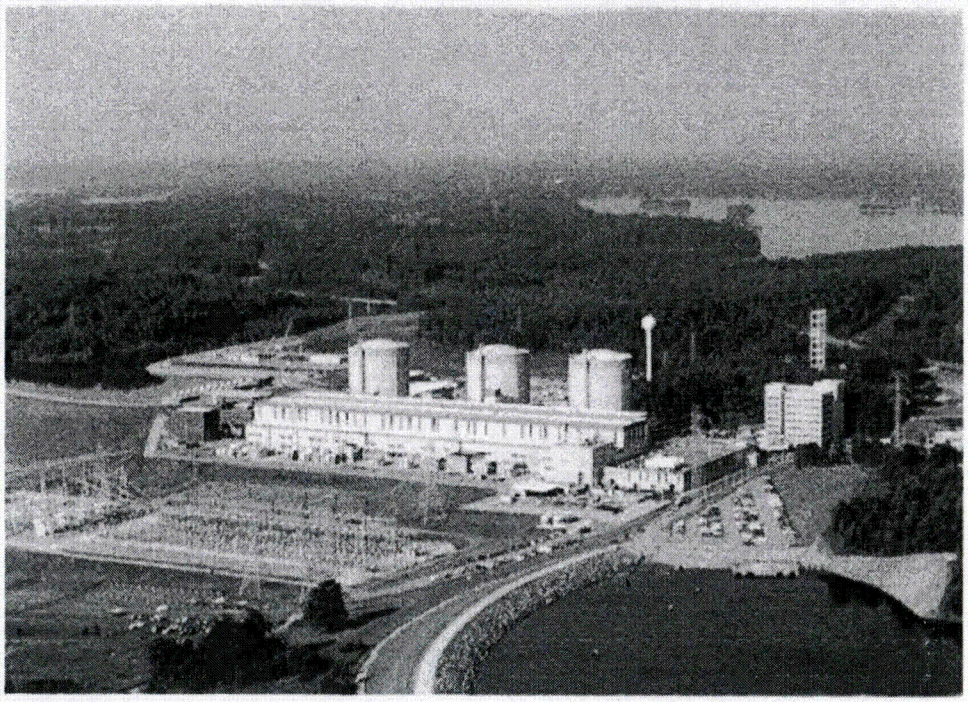
Please make the following changes to the Emergency Plan:

REMOVE	**INSERT**
Cover Sheet Rev. 2015-004	Cover Sheet Rev 2015-005
EPA Record of Changes 2015-004	EPA Record of Changes 2015-005
EPA Appendix 8	EPA Appendix 8

Pat Street
ONS Emergency Preparedness Manager

DUKE ENERGY®

OCONEE NUCLEAR STATION
EMERGENCY PLAN



APPROVED:

Scott L. Batson

Scott L. Batson

07-08-2015

Date Approved

REVISION 2015-005
June, 2015

RECORD OF CHANGES

REVISION NUMBER	EFFECTIVE DATE	REASON FOR REVISIONS
Revision 1	April 1, 1981	Meteorological Update
Revision 2	December 31, 1981	Rewrite Emergency Plan in Nureg 0654 Format
Revision 3	March, 1982	Update Emergency Plan
Revision 4	April, 1982	Revisions & Changes to update Emergency Plan
Revision 5	September 1, 1982	Revision to coincide with Crisis Management Plan
Revision 6	November 1, 1982	Revision update
Revision 7	December 14, 1982	Review and update
83-1	June 10, 1983	Changes required by action items due to annual exercise and review and general update
83-2	November 17, 1983	Changes required by review and general update
84-1	March 26, 1984	Revisions as determined by QA audit and minor editing
84-2	November 15, 1984	Revisions as determined by annual review
85-1	June 7, 1985	Revisions/changes/editing
85-2	----------	Revisions/changes/editing-annual review
86-1	March 8, 1986	New Oconee Brochure
86-2	November 13, 1986	Revisions/changes/editing-annual review
86-3	December 9, 1986	Correct changes identified as deficiencies by the NRC in Rev. 85-2.
87-1	February 4, 1987	Revision update, minor editing changes, included failed fuel accident assessment information.
87-2	----------	Revision update, minor editing changes Review Section D. Agreement letters updated.
87-4	December 10, 1987	Incorporate alternate TSC and OSC into Emergency Plan
88-1	June 7, 1988	Revised EALS in Section D.
88-2	October 14, 1988	Annual review. Minor editorial revisions.
89-1	February 28, 1989	Major revision to Section D. Added Appendix 7. Minor editorial changes.
89-2	August 14, 1989	Change to Section D. Minor editorial revisions.
89-3	January 5, 1990	Annual Review

RECORD OF CHANGES (Continued)

REVISION NUMBER	EFFECTIVE DATE	REASON FOR REVISIONS
90-1	March 1, 1990	Changes to Section D as required by NRC commitment.
90-2	June 1, 1990	Changes reflect upgrade of radiation monitor system and minor editing.
90-3	July 2, 1990	Change to Section D, Emergency Classification.
90-4	October 31, 1990	Annual Review
91-1	January 21, 1991	Section D revision. (RIA upgrade)
91-2	February 20, 1991	Section D revision. (TS to SLC)
91-3	March 22, 1991	Section D revision. (RIA upgrade); Section D revision. (SLB revision)
91-5	September 19, 1991	Section D revision. (RIA upgrade)
91-6	December 16, 1991	Annual review.
92-1	March 1, 1992	Section D (RIA upgrade). Minor editorial changes.
92-2	June 30, 1992	Major Revision
92-3	October 29, 1992	Annual review
92-4	12/31/92	Section B, D, H, J, Appendix 4, 5 & 6 changes.
93-1	03/01/93	Sections D, G, H, N, P, and Appendix 6
93-2	05/07/93	Sections A, B, D, Appendix 5 and 6
93-3	07/23/93	Sections A, B, G, H, I, J, L, M, N, & Appendix 6
93-4	08/11/93	Sections B, D, and Appendix 5
93-05	01/01/94	Annual Review, Incorporation of EPA-400 guidelines.
94-01	03/15/94	Additions of Appendix 8 and 9. - (Minor revisions)
94-02	05/09/94	Changes to Appendix 5, Pages 1 and 2; Changes to Appendix 6, Pages 2 and 4; State of South Carolina Agreement Letter
94-03	05/25/94	Changes to Appendix 5, Page 2; Changes to Appendix 6, Pages 4 and 5; INPO Agreement Letter
94-04	06/06/94	Changes to Appendix 5, Page 2; Change Teledyne Isotopes Badge Service agreement letter to Northeast Utilities Service Company
94-05	08/08/94	Changes to Section D
94-06	12/29/94	Annual review. Editorial changes, minor revisions.

RECORD OF CHANGES (Continued)

REVISION NUMBER	EFFECTIVE DATE	REASON FOR REVISIONS
95-01	02/23/95	Changes to Sections B, G, Appendix 5.
95-02	10/23/95	Annual review and changes
95-03	11/01/95	Section D. Change, Incorporated new EAL'S.
95-04	12/31/95	Calendar 1996, HAZMAT Changes, RP/14 deleted
96-01	02/13/96	Changes to Sections B, D, and N.
96-02	06/25/96	Changes to Section D
96-03	07/96	Changes to Section D
96-04	12/96	Annual review, editorial changes, minor changes with major change to Appendix 10.
97-01	07-97	Section B, I, Appendix 5 & 7, with editorial/minor changes to Section H & P
97-02	12-97	Annual review and editorial/minor changes
98-01	02-98	Section D, page 35. Correction of title on Enclosure 4.3
98-02	03-98	Section N, page 1 & 2, Added part a (General) to Section N.2 to ensure drills conducted between NRC evaluated exercises are performed in accordance with 10CFR50, Appendix E, Section IV.F.2.b
98-03	04-98	List of Figures page number corrections, Added Emergency Operation Facility to Figure H-15, Figure H-20 reformatted. Added Agreement Letter with Keowee-Key Volunteer Fire Department, Appendix 5, #24. Appendix 10 - Hazardous Materials Response Plan, corrections on Table of Contents with minor revisions. Headings on Appendix 10, Figure 2 with minor revisions.
98-04	12-98	Annual review and editorial/minor changes.
99-01	03-99	The ONS Technical Specifications have been converted to a set of Technical Specifications based on NUREG 1430. "Standard Technical Specifications Babcock and Wilcox Plants." Replaced the description phrases (titles) in Section D for Operating Modes with the Mode number from Improved Technical Specifications. In Section I the portion describing leak rate volume percent per day was changed to percent of the containment air weight per day. The reference to Tech Spec 4.4.1.1 was changed to reference Improved Technical Specification 5.5.2. NOTE: The implementation date of Improved Tech Specs was moved from March 4, 1999 to March 27, 1999, therefore the revision date for revision 99-01 will depict February when the actual administrative changes were completed.

RECORD OF CHANGES (Continued)

REVISION NUMBER	EFFECTIVE DATE	REASON FOR REVISIONS
99-02	12-99	Annual review and editorial/minor changes
2000-01	04-2000	Addition of List of Effective Pages
2000-02	05/2000	Editorial /minor changes
2000-03	12/2000	Annual review and editorial/minor changes
2001-01	02/07/2001	Additions and corrections as result of 50.54(t) audit. Additional information added to Basis Document and additional EAL's resulting from EP drill critiques.
2001-02	08/2001	Changes in areas of responsibility. Added note concerning RVLS to Fission Product Barrier Matrix; 2001 calendar; information added to EP Functional Area Manual; added/updated information on annual average meteorology; Appendix 5; Appendix 6; editorial/minor changes.
2001-03	12/2001	Added information in Basis Document concerning a reactor building containment break. Replaced the 2001 calendar with the 2002 calendar. Editorial/minor changes.
2002-01	01/02	The present Oconee Nuclear Station Emergency Operating Procedure is written in a different format and with some different terms than the earlier version. The term PTS (Pressurized Thermal Shock) has replaced TSOR (Thermal Shock Operating Range). This is only a change in terminology. The additional EAL is to ensure a site specific credible threat results in a declaration of a notification of Unusual Event (NOUE). This change is also intended to achieve an appropriate level and consistent response Nationwide.
2002-02	06/02	Section B - minor changes; Section D - Added information requested by Emergency Coordinators to Enclosure 4.1; Section G - Rewrite of entire section; Section H - Updated information on Figure H-4 relating to Met Data; Appendix 5 - Updated Letters of Agreement; and miscellaneous spelling/grammar errors.
2002-03	09/02	Section A - Compliance with the NRC Security Interim Compensatory Measure (ICM) issued 02/25/02; Section P - Audit frequencies per revised 10 CFR 50.54 (t) as stated in Federal Register Vol 64, 03/29/99. Appendix 1 - Added definition of monthly and Semi-Annual; Appendix 5, Agreement Letters, updated #17, Appendix 6 - Changed name on 78A. Miscellaneous corrections.
2003-01	02/03	Section D - RIA setpoints change, Section G - 2003 Calendar, Appendix 3 - Siren upgrade, new map (i-5) ; Appendix 5 - Agreement Letters, Appendix 6 - Issued To change, Section B, E, F editorial/minor changes
2003-02	08/03	Section D - incorporates additional guidance for the Emergency Coordinator/EOF Director related to classification of a high energy line break, such as a Main Steam Line Break. In addition, Section D has been retyped using a consistent font style - no changes in content resulted from the retype.

RECORD OF CHANGES (Continued)

REVISION NUMBER	EFFECTIVE DATE	REASON FOR REVISIONS
2004-01	02/04	Incorporates a retype of the majority of the sections as an editorial change to adopt a consistent format: Section G - Added information concerning One Mile Exclusion Area Signs; Section H - Strip Chart Recorders were removed under an NSM; Section J - Incorporated guidance on the use of KI as a protective action recommendation; Section K - changed KI dose to 5 REM CDE from 25 REM; Appendix 4 - Incorporate results of Evacuation Time Estimate; Appendix 5 - Revised Agreement Letters
2004-02	12/21/04	Editorial changes to correct typos, drawings, and title/organizational names. This revision also incorporates clarifying information from the latest Evacuation Time Estimate (ETE); clarification of offsite agency responsibilities for protective actions for impediments and special populations; revised EAL #2 for Enclosure 4.3, Unusual Event IC #2; clarification of ERO activation after normal working hours; and revisions to the site's SPCC Plan included in Appendix 8. In addition to these changes, applicable references have replaced generic references in Figure P-1. This revision also incorporates the 2005 Calendar distributed to the 10 mile EPZ population.
2005-01	02/01/05	Section D, Enclosure 4.7, Page 66 - Duke Power Hydro-Electric Group has revised the Lake Keowee water level from 807 to 815.5 feet for initiating a Condition B. This elevation is used in Enclosure 4.7 for classifying the event as an Unusual Event. The Hydro -Electric Group notifies the Control Room when Condition B has been declared. No protective actions by the plant are changed.
2005-02	05/17/05	Section I & Letters of Agreement - Incorporates an editorial revision that describes the makeup of Field Monitoring Teams and updated Agreement Letters. I.7&8 replaced "....personnel from Radiation Protection and Chemistry." with "..a RP Technician and a Driver." Editorial Change - Chemistry personnel no longer perform the function of FMT Driver. FMT Drivers are now provided by other groups.
2005-03	08/24/05	Revision 2005-03 incorporates an addendum for the Fire Department/Volunteer Fire Department Agreement Letters. This addendum was added as a result of NRC guidance provided to utilities. The addendum to these letters provides guidance on the use of the Incident Command System at ONS and identifies the ONS Fire Brigade Leader as the on-scene commander and site-interface for responding offsite fire departments.
2005-04	09/15/05	Revision 2005-04 is a change to Page 66, Enclosure 4.7, Emergency Action Levels #1 - Reservoir elevation greater than or equal to 807.0 feet with all spillway gates open and the lake elevation continues to rise. This change undoes Revision 2005-01 which changed Keowee Lake level from 807 feet elevation to 815.5 feet elevation. This revision was determined to be a non conservative change in that it delayed the Unusual Event emergency classification. Appendix 5, Agreement Letter #21 has been updated.
2005-05	01/09/06	Revision 2005-05 incorporates editorial changes that clarify organizational charts/responsibilities, revise procedure references, replaces public information calendar, and replaces obsolete survey instruments. Agreement Letters #16 and #19 were updated.

RECORD OF CHANGES (Continued)

REVISION NUMBER	EFFECTIVE DATE	REASON FOR REVISIONS
2006-03	06/8/06	Section D - Change #1 Revised initiating condition #2 for the Alert classification for Enclosure 4.6 (Fire/Explosions and Security Events). This change is based on a correction to the NEI White Paper, Enhancements to Emergency Preparedness Programs For Hostile Actions which was endorsed in a letter from the NRC on December 8, 2005. Change #2 - Renumbered Emergency Action Levels through out Section D to match the numbering scheme found in RP/0/B/1000/001 (Emergency Classification) procedure - Renumbering makes it easier for procedure users to locate the correct emergency action level in the Basis Document. Appendix 5 - Agreement Letters #8, 14,15 & 23 were updated.
2006-04	11/06	Reference changes to the deletion of the Clemson EOF and incorporates reference to the Charlotte EOF. In addition, miscellaneous editorial changes are included in this revision.
2007-01	03/07	Appendix 5 Agreement Letters that have been updated/revised.
2007-02	12/07	Editorial changes including a revised 50 mile radius map (Figure B), a revision to the Emergency Classification Basis Section D , the 2008 Emergency Planning Calendar, a revised layout drawing for the JIC, a revised listing of portable survey instruments, the latest renewal of existing agreement letters and a revised Ground Water Monitoring Plan
2008-01	09/08	The original order of the EALs created a human performance trap. The first fission barrier column that the procedure user reviews is the RCS Barrier column which is on the left side of the page. The second fission barrier column that is reviewed is the Fuel Clad Barrier which is in the center of the page. This order gives the procedure user the mind set that the EALs are listed in the same order: RCS EAL followed by the Fuel Clad EAL. Changing the order of the EALs is not a deviation from the approved EAL scheme but is a difference. This change does not constitute a decrease in the effectiveness of the EPLAN since the EALs are exactly the same.
2008-02	10/08	As of this change 2008-02, the Emergency Plan is now available on NEDL/SCRIBE and has been completely re-issued. All changes in the future to the Emergency Plan will be completed thru NEDL/SCRIBE. The following Agreement Letters were also updated: 1, 2, 3, 4, 5, 6, 7, 9, 10, 11, 19 and 21.
2009-01	02/09	Revised existing information relating to organization names that have changed, removed specific names and replaced with a title to mitigate the need for future revisions due to personnel changes, and changed staging location names based on changes made to area designation names; however staging will still occur in same area. Changes made only reflect actual organization names, functional position names, and current location names being used to make the E-Plan more accurately reflect current information. No changes are being made to the process or conduct of the how the E-Plan is to be implemented.

RECORD OF CHANGES (Continued)

REVISION NUMBER	EFFECTIVE DATE	REASON FOR REVISIONS
2010-10	02/10	Revised existing information relating to changes made to the callback system, who performs the dose assessments, the basis information for the Containment Barrier EAL based on NEI 99-01 Rev 5 FAQ lessons learned. Made name change for Oconee Medical Center, corrected information relating to testing frequency for major elements referenced in the E-Plan, the new neutron instrument used by radiation protection, and street name change for figure H-3A. Changes made are the result of the Annual Review process and no changes are being made to the process or conduct of how the E-Plan is to be implemented. The following Agreement Letters were also updated: Number - 6, 8, 13, 14, 15, 16, 18, 20, 22, & 23.
2011-01	05/11	Figure B-10 - Redistribution of support for Field Monitoring Teams from Chemistry to Business Management and Work Control. Section D - Basis corrected to delete reference to USFAR Table 15-114 which has been deleted, revised ICs 4.3.A.3 and 4.4.A.3, EAL A to align with RP/0/B/1000/001, revised ICs and EALs to add levels of operating modes that represent the operating levels of hot shutdown, cold shutdown and hot standby were listed, added "AC" back to IC 4.5.A.1 where it had been inadvertently deleted, add SSF to IC 4.6.U.1, correct IC 4.5.G.1, EAL 1 to reflect SSF maintaining Mode 3 (hot standby) rather than hot shutdown, add new ICs for Jocassee Dam condition A and B declarations, correct misprint in IC 4.7.A.2, EAL B, correct formatting errors, and add Security EALs. Section F - deleted onsite areas requiring phone notifications for site assembly due to new wireless system being installed in those areas. Section G - replace 2010 calendar with 2011 calendar. Figure H-1 - revised room layout to reflect current arrangement. Section N - Revised the testing cycle for the EPLAN from a 5 year cycle to a 6 year cycle. Appendix 5 - update letters of agreement.
2011-02	10/11	This evaluation supports a request to revise the Oconee (ONS), McGuire (MNS), and Catawba (CNS) Emergency Plans to allow for an alternate approach for compliance with 10 CFR 50.47(b)(2) relative to meeting the minimum staffing requirement during emergencies for site Radiation Protection (RP) personnel and the Emergency Operations Facility (EOF) position staffing to that in Table B-1 in NUREG-0654, endorsed by Regulatory Guide 1.101.
2012-01	6/12	Section F - A change to the process for answering the 4911 emergency phone calls. The new process will have both Operations and Security(SAS) answering the phone. Appendix 7 -Will clarify the ERDS related system description verbiage from the modem based data transfer system to the new VPN System.
2012-02	06/12	The NRC published Federal Register notice [RIN 3150-AI10], "Enhancements to Emergency Preparedness Regulations" on November 23, 2011. The amendments contained in the rule are summarized as twelve (XII) topics with varying implementation due dates. Emergency Plan changes to the following sections (C, D, H, I, J, P, and Appendix 1) are made in accordance with the rule and the appropriate guidance documents pertaining to Topic V – Emergency Action Level for Hostile Action, Topic VI – Emergency Declaration Timeliness, Topic VIII – Emergency Operation Facility (Performance Based), Topic IX – Emergency Response Organization Augmentation at Alternate Facility, and Topic XI – Protective Actions for On-site Personnel.

RECORD OF CHANGES (Continued)

REVISION NUMBER	EFFECTIVE DATE	REASON FOR REVISIONS
2012-03	06/13	Added Agreement Letter 25 - G&G Metal Fabrication to provide Hale pump technical support and Agreement Letter 26 Operating Agreement between Duke Energy's Lincoln Combustion Turbine Facility & MNS, CNS and ONS Nuclear Supply Chain concerning an Emergency Supply of Diesel Fuel.
2012-04	12/12	Section B - This change is to incorporate the new staffing analysis for the new EP rule and editorial changes.
2012-05	12/12	Revised Section D, Enclosure 4.3 to add threshold values for unit vent sampling as a compensatory measure. Unit vent sampling is performed on the 6th floor auxiliary building at sampling equipment where manual grab samples are retrieved per HP/0/B/1000/060-D. Additionally, the use of RIA 56 was added as a compensatory measure for Site Area Emergency and General Emergency Classifications. This change allows for classification of gaseous radiological releases in the event of a loss of either RIA-45 or 46. This change only clarifies the values to be used in the event normal monitoring is not available. The plan is also being revised based on annual review requirements, changes are mainly editorial or formatting. Additional changes are being made to reflect current name changes, update Agreement letters, Spill Prevention and Control, and Groundwater monitoring programs.
2013-01	10/13	Section D - Added clarification in the basis for Loss of Shutdown function. Section I - Revised to reference procedures versus RPSM 11.7 which has been deleted. Section J - Revised to incorporate latest revision to ETE. Deleted climate data tables which were duplicative to information contained within the ETE (Appendix 4). Section P - Updated appropriate references. Appendix 4 - Added latest ETE as reference.

RECORD OF CHANGES (Continued)

REVISION NUMBER	EFFECTIVE DATE	REASON FOR REVISIONS
2014-01	03/14	Section B - Removed reference to having home addresses listed in the emergency telephone directory as these were never listed in the telephone directory and clarified EOF Services Group actions. Updated titles of ERO positions in the TSC and OSC consistent with duty roster. Section D - Added clarification for which RIA-45 is to be used. Respectively, it is expected that 1RIA-45, 2RIA-45 and 3RIA-45 would be used in connection with Enclosure 4.3, Abnormal Rad Level/Radiological Effluent. 4RIA-45 is not specifically related to a unit and therefore it is not applicable to Enclosure 4.3. Section G - Removed Calendar and replaced with Note that the calendar is retained on file with EP Staff. Section H - Eliminated drawings of Alternate TSC and Alternate OSC as these are for implementation and not needed in Emergency Plan. Removed implementation details from Primary TSC and Primary OSC drawings. Corrected Figure H-20 and shifted table alignment. Section J - Provided editorial corrections to procedure numerical references where applicable. Section M - Provided clarification of EOF Services listed on Figure M-2. Section P - Provided editorial corrections to procedure numerical references where applicable, and changed a reference from the EP Functional Area Manual to a fleet administrative procedure reference (EP FAM to AD-EP-ALL-0001). Eliminated reference to HR Emergency Plan. Appendix 5 - Removed all copies of the Letters of Agreement and indicated they are included by reference. The actual Letters of Agreement are retained on file by the EP Staff.
2014-02	10/14	Section A - Revised for change from pagers to notify the ERO to using cell phones. Shift Manager delegates actual activation of notification device to Security if available or qualified operator if security is unable. Section B - Revised responsibility for Radwaste function from Chemistry Group to Operations Group. Section D - Revised responsibility for Radwaste function from Chemistry Group to Operations Group, including reference to chemistry procedures to operation procedures. Section F - Revised for change from pagers to notify the ERO to using cell phones. Shift Manager delegates actual activation of notification device to Security if available or qualified operator if security is unable. Section G - Procedure number changes Section H - Removed specific locations of kits as these were insufficiently detailed and did not contain all kit locations.

Record OF CHANGES (Continued)

Section I - Procedure number changes.

Section J - Procedure number changes.

Section M - Procedure number changes, title changes.

Section N - Changes to show new rules including 8 year cycle, consistency with fleet documents practices, and format.

Section P - Revised responsibility for independent audit from NSRB to NOS Manager, deleted duplicated paragraph and updated the listing of the implementing procedures.

Appendix 6 - Updated distribution list to reflect new format of E Plan and associated implementing procedures.

2014-003	12/14	Changes made associated with the modification from Raddose V to URI, and updates to WEBEOC.
2015-001	1/15	Changes made to Section F, EOF Communications and Figure F-1.
2015-002	3/15	Changes made as a result of superseding SH/0/B/2005/002, EP Fam 3.19 and Appendix 5.
2015-003	4/15	Changes made to Section D consisting of Protected Service Water replacing the Station Auxiliary Service Pump as a result of system modification. Replaced Selective Signaling with DEMNET.
2015-004	4/27/15	Changes made to Section H, K & P consisting of AD-EP-ALL-0204 procedure reference changes. Section H; removed specific equipment reference to reduce E-Plan revisions, Section K: implementation for AD-EP-ALL-0204 for administration of KI, and Section P: SH/0/B/2005/003 to AD-EP-ALL-ALL-0204.
2015-005	7/9/15	Total re-write of Appendix 08.

SPILL PREVENTION, CONTROL, AND COUNTERMEASURE (SPCC) PLAN

Oconee Nuclear Station

Keowee Hydro Station

7800 Rochester Highway
Seneca, South Carolina 29672

Revision April 2015

Duke Energy Carolinas, LLC

Signature Page

Management Approval:

This Spill Prevention, Control, and Countermeasure (SPCC) Plan has been reviewed by the plant management and is being implemented as herein described. To minimize hazards to human heath and environment, the facility will commit manpower, equipment, and materials required to expeditiously control and remove any quantity of oil or other hazardous materials discharged that may be harmful.

As required by law, this Plan shall be made available for review during normal business hours by the United States Environmental Protection Agency, the South Carolina Department of Health and Environmental Control, or a duly authorized representative of these agencies.

I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gathered and evaluated the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information, the information submitted is; to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations.

NAME (print): Scott Batson

TITLE: Site Vice President

SIGNATURE: Scott P. Batson

DATE: 05-12-2015

Engineer Certification:

The undersigned Registered Professional Engineer (PE) is familiar with the requirements of Part 112 of Title 40 of the *Code of Federal Regulations* (40 CFR Part 112) and has visited and examined the facility, or has supervised examination of the facility by appropriately qualified personnel. The undersigned Registered Professional Engineer attests that this Spill Prevention, Control, and Countermeasure Plan has been prepared in accordance with good engineering practice, including consideration of applicable industry standards and the requirements of 40 CFR Part 112; that procedures for required inspections and testing have been established; and that this Plan is adequate for the facility. [112.3(d)]

This certification in no way relieves the owner or operator of the facility of his/her duty to prepare and fully implement this SPCC Plan in accordance with the requirements of 40 CFR Part 112.

PROFESSIONAL ENGINEER NAME: Anna Campbell Franklin

SOUTH CAROLINA PE LICENSE NO. 30007

SIGNATURE: Anna Campbell Franklin

DATE: April 21, 2015

SOUTH CAROLINA
LICENSED PROFESSIONAL ENGINEER
No. 30007
ACF
4/21/15
ANNA CAMPBELL FRANKLIN

Designated Person Responsible for Spill Prevention:

The Lead EHS Professional is the designated person responsible for oil spill prevention at the Oconee Nuclear Station and Keowee Hydro Station facility. This person is also responsible for the review of and evaluation of the SPCC Plan every five years according to §112.5.

NAME (print): John Estridge

TITLE: Lead EHS Professional

SIGNATURE: John Estridge

DATE: 05-04-2015

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1.0 INTRODUCTION

The Oconee Nuclear Station Spill Prevention, Control and Countermeasure (SPCC) Plan is a requirement of the U.S. Environmental Protection Agency (EPA) Oil Pollution Prevention Regulation, 40 CFR Part 112. The regulation applies to non-transportation-related facilities that use and/or store oil, which have potential for spilled product to reach navigable waters of the United States as defined under the Clean Water Act. The objective of this Plan is to establish a comprehensive guide to minimize hazards to human health and the environment by prevention and control of petroleum releases at the Oconee Nuclear Station and Keowee Hydro Station.

To comply with the requirements of 40 CFR Part 112, the SPCC Coordinator or designated station personnel are to identify whenever there is a change in facility design, construction, operation or maintenance that may materially affect the facility's potential for discharging oil into navigable waters. The Plan shall be amended within six months following identification of these changes to the facility. Implementation of the amended Plan shall be made no later than six months following preparation of the amendment. Material changes in the facility requiring Plan amendment must be certified by a registered Professional Engineer (PE).

This Plan must be reviewed and evaluated at least once every five years per requirements of 40 CFR 112.5(b). Non-technical changes do not require re-certification by a PE. These changes shall be documented as discussed in Section 13.0 of this Plan.

Management commitment to this Plan for the prevention and control of oil spills at the Oconee Nuclear Station and Keowee Hydro Station is provided on the signature page of this Plan. If applicable, changes required to the facility are outlined in Appendix F. Management approval of this Plan dictates that these changes will be made prior to the regulatory implementation date for this SPCC Plan.

This Plan is to be maintained onsite at the Oconee Nuclear Station.

A Certification of Substantial Harm Determination (CSHD) Form, used to determine the need for a Facility Response Plan (FRP), is attached as Appendix A to this Plan. This form also requires management review and approval. Due to the quantity of oil stored and the proximity to environmentally sensitive areas and/or public drinking water intakes, the Oconee Nuclear Station IS NOT required to develop and maintain a FRP. Should changes occur at the facility involving the storage of oil or in oil transfer operations over water, the Form shall be evaluated to determine the need for revision or deletion of the FRP.

This SPCC Plan addresses comprehensively the topics outlined in 40CFR112.7, as the SPCC section cross references in Table 1-1 below indicates:

Table 1-1			
SPCC Plan and 40 CFR 112 Cross-reference			
CFR Section	**CFR Section Topic**	**SPCC Plan Section Reference**	**Pages**
112.3(d)	Professional Engineer Certification	Signature Pages	ii
112.3(e)	Location of SPCC Plan	Section 2.0	3
112.5(a)	Amendment after change	Section 13.0	32
112.5(b)	Five-year review	Section 13.0	32
112.7(a)	Facility layout, diagram, contact information	Section 2.0, Section 3.0 and Section 5.0	3, 5, 11 and Figure 1 and Figure 2
112.7(b)	Prediction of oil discharge	Section 3.0 and Section 4.0	5 and 6
112.7(c)	Retention and containment	Section 3.0 and Section 4.0	5 and 6
112.7(d)	Spill contingency plan	Only if secondary containment is not practicable	N/A
112.7(e)	Inspections, tests and records	Section 9.0 and Section 12.0	21 and 31
112.7(f)	Training and procedures	Section 10.0	29
112.7(g)	Security	Section 11.0	30
112.7(h)	Tank truck loading/unloading	Section 6.0	14, Appendix E
112.7(i)	Altered field-built tank	N/A	N/A
112.7(j)	Conformance with other regulations	Section 14.0	34
112.7 (k)	Qualified oil-filled operational equipment	Section 3.0	5, Appendix C
112.8(b)	Site drainage	Section 8.0	17
112.8(c)	Bulk storage container	Section 4.0	6, Appendix C
112.8(d)	Transfer operations & piping	Section 7.0	16
112.20	Facility Response Plan	Appendix A	Appendix A

2.0 FACILITY INFORMATON AND DESCRIPTION

Address:	Oconee Nuclear Station 7800 Rochester Highway Seneca, South Carolina 29672
Phone:	864-873-3271
Operator:	Duke Energy Carolinas, LLC 7800 Rochester Highway Seneca, SC 29672
Owner:	Duke Energy Carolinas, LLC 7800 Rochester Highway Seneca, SC 29672
SPCC Coordinator:	John Estridge Work: 864-873-3979 Mobile: 864-710-1510
Alternate SPCC Coordinator:	Reference Appendix B

The Oconee Nuclear Station is a nuclear electric generating facility located on Lake Keowee near the community of Seneca in Oconee County, South Carolina. The station contains three nuclear generating units, the first of which was put into commercial operation in 1973. Units 2 & 3 followed in 1974. The 2-unit Keowee Hydro Station is a 157.5-megawatt conventional hydro generating plant. Keowee Hydro began operating in 1971.

The site is located at the following approximate coordinates:

Latitude: 34° 47' 30" North Longitude: 82° 53' 21" West

The facility stores various quantities of fuel oil, lube oil, mineral oil and gasoline in numerous containers. Fuel oil is stored at the facility primarily for use in emergency diesel generators and auxiliary boilers. Lube oils are stored for use as cooling and lubrication in various closed-loop systems. Mineral oils are stored for use in cooling in several transformers at the facility. Gasoline is stored for fueling of site vehicles. Synthetic oils are used in the electro-hydraulic systems (EHC), e.g., the Main Turbine Hydraulic Oil System (LH). Synthetic oils such as the electrohydraulic control fluid (EHC) used have many of the same properties of natural oils, but pose a unique environmental problem due to their density. EHC fluid is heavier than water and thus sinks, rather than floats, in water.

The facility is subject to the requirements of 40 CFR Part 112 and is required to maintain a SPCC Plan because oil storage capacity is greater than 1,320 gallons and its proximity

to waters of the U.S. A complete copy of the Plan is maintained in the office of the Lead EHS Professional and is available on-site for review during normal working hours.

COMMITMENT OF MANPOWER

The Oconee Nuclear Site commits the manpower, equipment, and materials required to expeditiously divert, contain, control and remove any quantity of oil discharged at the site. The facility maintains an adequate supply of hazardous materials response equipment and implements a quarterly inspection of equipment according to Procedure No. PT/0/B/0250/045; the procedure details a visual inspection to assure the availability of the emergency equipment and supplies. A larger release could require the assistance of an outside contractor; Duke Energy has an agreement with an emergency contractor with 24-hour response capabilities. However, ONS personnel will make every effort, without jeopardizing the safety of its employees, to prevent spills from leaving the site prior to the arrival of the emergency contractor.

3.0 OIL SOURCES AND SECONDARY CONTAINMENT

Potential oil spill sources at the facility, flow directions and secondary containment practices in place are summarized in Appendix C. The types of containers or sources in the table are identified as:

- Bulk storage containers (BSC)
- Bulk storage containers – 55-gallon drums (BSD)
- Oil-filled operational equipment (OOE)
- Oil transfer points (OTP)
- Underground storage tanks (UST)
- Mobile oil containers (MOC)
- Above-Ground Piping (AGP)

All containers with oil storage capacity greater than or equal to 55 gallons are listed. These containers/sources are also located on the SPCC Site Plan Figure 2 using the same identification numbers or letters indicated in Appendix C.

Oil containers less than 55 gallons are *not* listed in Appendix C and are not included in the total capacity sum as allowed per 40 CFR 112.1(d)(2)(ii).

Volumes of underground storage tanks covered under 40 CFR Part 280 are listed in Appendix C and are indicated on Figure 2 as information. The capacities of these tanks are *not* added into the SPCC total facility storage capacity. The Standby Shutdown Facility (SSF) UST is not regulated under 40 CFR Part 280 and is included in the SPCC facility total.

Volumes of mobile tankers used for loading or unloading operations are *not* added into the SPCC total facility storage capacity if these tankers are *not* maintained at the facility.

4.0 CONTAINER TYPES AND REQUIREMENTS

The Oconee Nuclear Station and Keowee Hydro Station has both bulk storage containers, and containers/systems that are end uses for oil.

4.1 Oil-Filled Operational Equipment

Containers identified as OOE (oil-filled operational equipment) in Appendix C are considered oil in use containers. Oil in use containers are covered differently from bulk storage containers under the regulation; and include all hydraulic systems, lubricating systems, gear boxes, machining coolant systems, heat transfer systems, transformers, circuit breakers, electrical switches, and any piping intrinsic to this type of equipment in a closed-loop system. Oil in use containers comply with the requirements established under 40CFR112.7(c) and 40CFR112.7(k).

Oil in use containers located inside the Oconee Nuclear Station Turbine Building include a Turbine Generator Lube Oil Reservoir System, a Bowser Turbine Lube Oil System, an Electro-Hydraulic Fluid Reservoir System and a Hydrogen Seal Oil System. All of these reservoirs and systems are provided secondary containment by the Turbine Building concrete floor and floor drain system that discharges into the Turbine building sumps.

The main oil-filled operational equipment at the Oconee Nuclear Station are transformers containing mineral oil. The largest of these transformers are located on the east side of the Turbine Building and include three transformers for Unit 1, three transforms for Unit 2, and five transformers for Unit 3. The secondary containment for these units includes the graveled containment area surrounded by 6" high concrete curbing.

There are other smaller transformers located at the Auxiliary building, Oconee Office Building, and Warehouse No. 4. There are multiple transformers located on the switchyards (44 KV, CT-5, 230 KV, and 525 KY). Any leakage or rupture from these transformers would flow to the graveled yard which drains to Chemical Treatment Pond #3 (CTP#3). CTP#3 is equipped with a fixed concrete skimmer wall which limits only water greater than 16" deep to be continuously discharged downstream over a level-controlled spillway gate. The skimmer wall keeps the oil within the pond for removal and disposal. This pond also has an oil boom as an additional precaution in the event of an oil spill.

The Main Step-Up Transformers and Auxiliary Transformers are located inside the protected area in a graveled area. Small leaks or spills that occur are absorbed into the gravel. The gravel is then removed and disposed of properly. All drains in the transformer area drain to the storm drainage system and would be contained within CTP#3 where spills could be contained and cleaned up. These transformers are inspected at least once per 12-hour shift by Operations personnel as part of the Operator Rounds Program.

Pad mounted transformers are located in several areas around the site. Those owned by Duke Power Distribution are given a comprehensive inspection every eight years by Duke Power per the Customer Operations Distribution Manual OM – 41.01. Legal records of these inspections are kept for 6 years.

With the exception of any catastrophic event causing severe damage to the transformer, any oil leakage from pad mounted transformers occur through the 'window' of the transformer where the cables run out the bottom of the transformer into the ground. This leakage would not be a threat to surface water. Oil leakage out of the transformer causes problems with the service of the transformer and would be quickly detected.

Any oil spill or leak from the new Entrance Road transformer (17,968 gallons) would by-pass CTP#3; however the transformer has a concrete containment structure around the transformer. Drainage of the containment structure is by means of a pump that is manually operated.

Pad mounted transformers inside the plant protected area are inspected at least once per 12-hour shift by Operations personnel as part of the Operator Rounds Program.

There are twelve cooling water pumps on the intake structure in the plant intake canal on Lake Keowee. Each pump contains 55-gallons of oil each. These pumps must be at the water and were operable prior to January 10, 1974. There is no passive means of secondary containment. Spills or leaks would flow to a concrete structure before going directly into Lake Keowee. The facility maintains spill response equipment to actively mitigate any spills or leaks.

The Keowee Hydro Station has a separate, independent Governor Oil (OG) System for each Keowee Hydro Unit consisting of three Governor Oil Pumps, a Governor Oil Pressure tank, a Governor Oil Sump tank, and a Governor Actuator. Each OG system contains approximately 1,500 gallons of oil. Based on OG system component location, if leakage from the OG system occurred it would go to the nearby floor drains and trenches and be routed to the Station Sump or to the Turbine Sump (TS). Based on the design of the OG System, it is not probable that a single failure could result in the entire 1,500 gallons of oil leaking out of the system and entering the Station Sump. Should a leak occur in the OG system, the Governor Oil Pumps will start on low pressure and continue to pump the oil out the leak location in an attempt to maintain system pressure until manual action is taken to secure the pumps. An alarm would be generated in the Keowee Control Room to alert the Keowee Operator that a problem existed with the OG system. The Operator would visually check the governor pump and pressure reading and at that time observe the loss of oil. The Keowee Hydro Station Lube Oil Purifiers (LOP #1 and LOP #2) are located in the Main Lube Oil Room. The LOPs do not have any sort of berm around them designed to contain any significant oil spilled or leakage that occurs, they only have a shallow floor pan designed to capture normal operational oil drips and leaks. Both of these LOPs are designed with a high level trip function (Rotalarm) that is designed to trip the LOP when a high level is detected in the centrifuge. The Main Lube Oil Room is equipped with a drainage system of floor drains and trenches that route directly to the Keowee Unwatering Sump.

Contained in each unit's wheel pit is a generator thrust and guide bearing oil reservoir which holds approximately 800 gallons of oil used to provide lubrication to the associated thrust and guide bearings. Any leakage that develops from the bearings or its associated bearing oil reservoir would leak down to the TS located directly below.

The 205 MVA main step-up transformer at Keowee Hydro Station is located adjacent to the station's discharge structure. It contains 17,620 gallons of transformer oil. The transformer sets on a concrete base. The transformer and base are surrounded by gravel and a concrete containment berm above the gravel.

A complete list of oil-filled operational equipment is included in Appendix C.

Oil in use containers are not subject to level indicator requirements or integrity testing (Section 9.1) but are part of the visual inspections performed by plant personnel (Section 9.2).

4.2 Bulk Storage Containers

Containers identified as type BSC or BSD in Appendix C are considered bulk storage containers and, unless otherwise noted, meet the requirements specified in 40CFR112.8(c). All on-site bulk storage containers subject to 40 CFR 112 are indicated on Figure 2.

There are numerous bulk storage containers located at the facility as listed in Appendix C.

The largest aboveground containers at the facility are two external shop built diesel fuel storage tanks. The tanks are 30,000-gallon and 45,000-gallon capacity tanks. These tanks are located within a single common concrete secondary containment structure fitted with a closed drain valve. The containment is adequate to contain the entire contents of one of the tanks plus and adequate allowance for rainfall. The containment drain discharges into the facility storm drain system and eventually into CTP#3. Loading/unloading operations, aboveground and underground piping associated with these tanks is discussed in Sections 6.0 and 7.0, respectively.

Other external and internal bulk storage containers located at ONS are included in Appendix C.

All bulk storage containers at the facility are compatible with the petroleum product that they store, and all (except 55 gallon drums) are equipped with means or procedures to prevent overfills as required under 40 CFR 112.8(c)(8). The 55-gallon drums at the facility are not used in a manner that represent a significant spill risk and, as a result, are not equipped with any means of level indication.

All secondary containments for bulk storage containers at the facility are sufficiently impervious to contain a petroleum release in accordance with 40CFR112.8(C)(2).

All on-site bulk storage containers subject to 40CFR112 are located on the SPCC Site Plan (Figure 2) using the reference identification numbers in Appendix C.

Bulk storage containers are part of the routine inspections performed by facility personnel and may be subject to periodic integrity testing. Testing and inspections are addressed in Sections 9.1 and 9.2 respectively.

Mobile or portable oil storage containers operating exclusively within the confines of a non-transportation related facility with a capacity to store 55 gallons or more of oil are regulated under the SPCC rule and must comply with the requirements of 40 CFR 112.2, 112.12(c)(2) and (11). In accordance with EPA SPCC Amendments published December 26, 2006, bulk storage containers onboard vehicles or towed and used solely to store and transport oil for transfer are exempt from secondary containment requirements. However, mobile tankers remain subject to the General containment requirements of 40 CFR 112.7.

The facility maintains two on-site mobile trucks on a routine basis. One mobile fuel truck has two steel tanks (one 1700-gallon diesel fuel storage tank and one 600-gallon gasoline storage tank). This tanker truck is used to fuel on-site vehicles and is maintained at the Oconee Transportation Facility when not in use. Secondary containment is provided by a concrete berm; however, storm drains would carry releases to CTP#3. The FLEX project also has a mobile fuel trailer. The trailer has a capacity of 1240 gallons and will contain ULSD (Ultra Low Sulfur Diesel Fuel). The trailer will be stored inside the FLEX Dome, which provides secondary containment.

The facility also has a mobile kerosene storage tank (500-gallon capacity) at Warehouse No. 5.

Any mobile or portable oil storage containers stored at the facility and containing more than a residual amount of oil is considered a bulk storage container and shall be located within adequate secondary containment.

Tanks, located on site but not in use, may be "permanently closed" to avoid compliance with bulk storage tank requirements. As defined in 40 CFR 112.2, a container may be permanently closed by 1) removing all liquid and sludge from the container and connecting lines, 2) disconnecting all connecting lines and piping from the container and blanking off, 3) closing and locking all valves (except vents), and 4) posting conspicuous signs on the container noting that it has been closed including its date of closure.

Underground storage tanks at the facility are either regulated by the Nuclear Regulatory Commission (NRC) or are regulated under 40CFR280. In either case, these USTs are exempt from SPCC regulations but are shown on the SPCC Site Plan (Figure 2) as required under 40CFR112.7(a)(3), and are identified as container type UST in Appendix C. The storage capacities of these USTs are not included in the calculated facility SPCC storage capacity. The Oconee Nuclear Station has the following underground storage tanks located at the Oconee Transportation Facility:

- 1000 gallon hydraulic oil UST
- 1000 gallon automatic transmission fluid UST
- 12,000 gallon diesel fuel UST
- 1000 gallon waste oil UST
- 2000 gallon motor oil UST
- 12,000 gallon unleaded gasoline UST

USTs installed or removed on site comply with:

- Flammable and combustible liquid code NFPA 30
- Automotive and Marine Service Station Code NFPA 30A
- Recommended practices for installation of Underground Liquid Storage Systems PE1 RP100.
- Installation of Underground Petroleum Storage System API 1615
- Recommended practice for abandonment or removal of Underground Service Tanks API 1604
- 40 CFR 280
- DHEC UST Rules

The 550-gallon UST for used oil storage at the Oconee Complex has a protective coating, cathodic protection, and meets state/federal requirements for testing and monitoring.

The 50,000-gallon SSF underground diesel storage tank has a protective coating with cathodic protection. Associated piping is constructed of stainless steel with a protective coating.

5.0 RELEASE RESPONSE GUIDELINES

As required by 40 CFR 112.7(a)(3), (a)(4) and (a)(5), certain release response and preparedness plans are included as part of the Oconee Nuclear Station SPCC Plan.

Oconee Spill Response Procedure RP/0/A/1000/17 details procedures for oil spill response.

ONS also has a work practice in place for spill response that includes the summary on how to report a spill below.

HOW TO REPORT A SPILL

Note: The number one priority is your own safety and the safety of others who may come in contact with the spill. **SWIM** should be performed with your Safety in mind.

1.0 The person or group who first discovers the spill shall **SWIM**:

Secure the Area.
Warn others.
Inform the Control Room at the Site Emergency Number, **4911** and give as much information as possible.
Monitor the area until help arrives.

2.0 The following information at a minimum should be given to the control room:

What was spilled?
Approximately how much was spilled?
The location of the spill?
The circumstances that caused the spill?
Has the spill reached water, soil or what media did the spill occur on?

3.0 Operations shall contact site Environmental Field Professional for each spill, whether onsite or offsite, for proper local, state and federal reporting and for proper disposal guidance. Contact site Environmental Field Professional during normal working hours. During backshift and weekends, call the site Environmental Field Professional duty person as listed on the DutyList application.

Note: Oil spills from transformers may contain PCBs, which are considered hazardous substances. Immediately report **any** spill to Site Emergency Number at 4911 giving the location, system, size, type, cause, etc.

Permanent oil booms and a concrete skimmer wall are located in CTP#3. This equipment is designed to trap any released oil from the switchyard and plant area to prevent a discharge of oil from the site. An inventory of materials response equipment and the location is included in Procedure No. PT/0/B/0250/045. Any oil reaching the Keowee River or Lake Keowee is considered to be a discharge and is reportable to regulatory agencies.

The SPCC Spill Coordinator gathers the information necessary to accurately complete the Reportable Spill Report Form included as Enclosure 4.2 of the Spill Response Procedure No. RP/0/A/1000/017. The Coordinator will make necessary notifications to the National Response Center within 15 minutes of the spill discovery and the applicable State and local agencies.

Environmental Corporate Support SME Hotline for Power Generation: 800-510-7439

Corporate Communications should be contacted immediately if the release could cause concern to the public or involve the news media.

Corporate Communications: 888-266-3853 (266-DUKE) or 704-382-9152

You will be asked to leave a voicemail message with the following information:

- Your name
- A telephone number where you can be reached
- A brief description of the event.

Media relations should return your call within 30 minutes. If your call is not returned within 30 minutes, call 980-373-6040 and have them page the corporate communication duty person.

Reference Appendix B for all contact information.

A list of release response materials and the locations of these materials is provided as part of the Quarterly Inspection of Hazardous Materials Response Team Equipment, Procedure No. PT/0/B/0250/045. The facility has access to substantial resources in the event of a release.

Depending on the magnitude of the release, external clean-up response contractor(s) may be called. Contact information for the designated external clean-up response contractor(s) for the Oconee Nuclear Station is provided in the Emergency Contact List (Appendix B). An external clean-up/spill response contractor is to be contacted by the site SPCC Coordinator only where needed for assistance.

It may also be necessary for federal and state agencies to be notified. The decision for notification of any outside agencies will be made by the facility SPCC Coordinator as soon as possible after an attempt has been made to contact Department Management and designated Response Personnel. Site contacts, internal and external emergency contacts and government agency contacts and their phone numbers are included in Appendix B. When reporting a petroleum release situation, the Oconee Nuclear Station address and other details associated with the release event are required. The Oconee Nuclear Station address is listed in **Section 2.0**.

The site is located at the following approximate coordinates:
Latitude: 34° 47' 30" North Longitude: 82° 53' 21" West

Information to be gathered in order to report the release situation is contained in the Reportable Spill Report Form found in Procedure No. RP/0/A/1000/17.

Typically, all petroleum release and clean-up materials (including free products, soils, gravel, absorbents, PCB and non-PCB contaminated materials) collected at the site following a cleanup action are placed in suitable containers, stored at the L1 Yard, and properly disposed according to the regulations.

6.0 LOADING/UNLOADING OPERATIONS

This section of the SPCC Plan document discusses the engineered and administrative controls that are in place to prevent and contain possible petroleum releases associated with tanker truck loading and unloading operations. Tanker loading/unloading locations are indicated on the SPCC Site Plan - Figure 2. The volume of the largest truck that loads/unloads at these locations and the flow path to the secondary containment is described for each location.

Tanker loading/unloading operations are conducted at the facility at the following designated locations:

a. Tanker truck unloading of diesel fuel into the two above-ground diesel fuel storage tanks (30,000 and 45,000 gallons) is conducted at a designated unloading station adjacent to the tanks. Secondary containment for this operation is provided by concrete containment.

b. Tanker truck unloading of diesel fuel into the 1000-gallon above-ground diesel fuel storage tank is conducted at a designated unloading station adjacent to the tanks. Secondary containment for this operation is provided by CTP#3.

c. Tanker truck unloading of oil into the three above-ground transfer oil storage tanks (14,000 gallons each). Secondary containment is provided by a concrete containment wall.

d. Tank truck unloading of oil into two 7000-gallon each tanks located in the main lube oil room at the Keowee Hydro Station. Secondary containment is provided by a concrete containment wall.

e. All of the underground storage tanks are loaded via tanker truck.

Facility personnel are in constant attendance during all tanker unloading operations in accordance with station procedures (Appendix D).

In accordance with EPA SPCC Amendments published December 26, 2006, bulk storage containers onboard vehicles or towed and used solely to store and transport oil for transfer <u>are exempt</u> from secondary containment requirements. However, mobile tankers remain subject to the General containment requirements of 40 CFR 112.7. Facility personnel are in constant attendance during all tanker unloading operations in accordance with station procedures (Appendix D).

Each loading/unloading station, if present, is subject to the following specific controls and procedures to be used during loading/unloading operations:

- Loading/unloading procedures shall be posted and maintained at loading/unloading areas.

- Loading/unloading operations shall be ***continuously*** attended by delivery or facility personnel.

- Tank/reservoir levels shall be verified prior to filling.

- Per 40 CFR Section 112.7 (h)(3); the lowermost drain and all outlets for discharge on any tanker vehicle shall be closely inspected prior to filling and departure of the tanker. If necessary, these drains and outlets for discharges shall be properly tightened, repaired or replaced to prevent discharges during transit.

- Per 40CFR112.7(h)(2); wheel chocks or other physical barrier systems shall be put in place in the loading/unloading areas to prevent tanker vehicles from departing before complete disconnection of oil transfer lines.

- Per 40 CFR Section 112.7 (h)(3), prior to filling and departure of any tanker, closely inspect the lowermost drain and all outlets for discharges and if necessary properly tighten or repair to prevent discharges during transit.

7.0 ABOVEGROUND, UNDERGROUND PIPING AND TRANSFER OPERATIONS

This section of the SPCC Plan document discusses the engineered and administrative controls that are in place to prevent and contain possible oil spills associated with aboveground petroleum piping, terminal connections and valves.

There is no significant aboveground piping located at the Oconee Nuclear Station.

The following practices shall be observed in association with any future piping installed at the facility:

- Future aboveground piping shall be installed with some means of secondary containment.
- Future buried piping shall be installed with protective wrapping and coating, and shall be cathodically protected.
- Visual inspections shall be performed on aboveground petroleum piping, valves and structural supports. When exposed, buried piping shall be inspected for corrosion or needed repairs and corrected as necessary.
- Protective bollards shall be placed to protect piping from vehicular traffic at high risk impact locations.
- Piping placed out of service or in stand-by for extended periods of time shall have terminal connections capped or blank flanged at transfer points and shall have origins marked.

Completely buried tanks, as defined in §112.2, and connected underground piping, underground ancillary equipment, and containment systems that are currently subject to all of the technical requirements of 40 CFR Part 280 or all of the technical requirements of a state program approved under 40 CFR Part 281 are not counted.

The facility has underground piping transporting fuel oil from the fuel tanks to the auxiliary boiler. Integrity and leak testing of buried piping must be conducted at the time of installation, modification, construction, relocation, or replacement according to 40 CFR Section 112.8 (d)(4). If a section of buried line is exposed for any reason, it must be carefully inspected for deterioration.

Any buried piping installed or replaced after August 16, 2002 must have a protective wrapping and coating. It must also be cathodically protected or satisfy the corrosion protection standards for piping in 40 CFR Part 280.

8.0 SITE DRAINAGE

This section of the SPCC Plan document discusses the engineered and administrative controls that are in place to contain possible oil spills within the facility and prevent discharge of oil into navigable waters. All identified petroleum sources (equal to or greater than 55 gallons) are listed and described in Appendix C and indicated on Figure 2.

Drainage from diked storage areas (including operating description of valves, pumps, ejectors, etc.) are manually pumped or drained by using valves. (Flapper-type valves should not be used.)

NOTE: If diked storage areas are not equipped with drains, water that collects in diked areas is removed after visual inspection.

Drainage from undiked areas (including ponds, lagoons, catchment basins, and methods of retaining and returning oil to facility):

Oil contaminated water which may flow into the ONS Turbine Building sumps has the oil separated by an oil skimmer. The oil removed by the skimmer is placed in proper containers, and disposed of according to the guidance provided in Environmental Work Practice 2.8, Used Oil. Traces of oil which may not be removed by the skimmer are pumped to Chemical Treatment Pond #1 and #2 and are batch released to Chemical Treatment Pond #3 (CTP#3). Any oil reaching CTP#3 is removed using oil absorbent materials.

Both the Oconee Complex and the ONS Transportation Facility wastewater drain systems are equipped with in-line oil/water separators to remove used oil from wastewater being pumped into the site wastewater treatment system.

Keowee Hydro Station has three different sumps that discharge directly to the Keowee tailrace; the Station Sump, the Unwatering Sump, and the Turbine Sump. The Station Sump is designed as the collection point for all Keowee Hydro Station floor drains and trenches. The Station Sump is equipped with two sump pumps that normally operate in automatic, cycling on and off based on sump level. The Station Sump has an oil skimmer installed that removes oil floating on the sump water via a circulating tygon tube loop that allows the oil to drain from the tygon tube to a stationed 55 gallon oil drum. Should a leak occur in the OG system, the Governor Oil Pumps will start on low pressure and continue to pump the oil out the leak location in an attempt to maintain system pressure until manual action is taken to secure the pumps. When the Governor Oil Pumps have run for 180 seconds, the associated statalarm would be generated in the Keowee Control Room to alert the Keowee Operator that a problem existed with the OG system. Additionally, should OG system pressure decrease to 280 psig, statalarms would actuate to indicate the 1A or 2A Governor oil pump had emergency started. In addition to the Keowee Control Room alarm, an computer alarm would be generated and a statalarm generated in the ONS Unit 2 Control Room. Per the Keowee Control Room Alarm Response Guide (ARG) the Operator would visually check the governor pump and pressure reading and at that time observe the loss of oil. Manual Operator action, outside the guidance provided in the ARG, would be required at that time to stop the Governor

Oil Pumps from continuing to pump oil out the leak location. Based on design of the OG System and alarming functions provided to the Operator, it is reasonable to assume that a large leak from the OG system that resulted in oil entering the Station Sump, would be identified and isolated before it resulted in enough quantity of oil entering the Station Sump such that it would be automatically discharged to the Keowee tailrace when the Station Sump pumps are in their normal alignment.

The Main Lube Oil Room is equipped with a drainage system of floor drains and trenches that route directly to the Keowee Unwatering Sump. The Unwatering Sump's primary use is during plant unwatering. Additionally, the Unwatering Sump is the collection point for draft tube drain leakage and construction joint in-leakage which provides a continuous input to the sump. The unwatering Sump is equipped with two sump pumps that normally operate in automatic, cycling on and off based on sump level.

The Turbine Sump (TS) System is contained in each Keowee unit's wheel pits and is designed to mitigate flooding due to normal packing cooling flow in the Turbine Wheel Pit. Flooding level is defined as the level at which water can enter the Turbine Guide Bearing Oil Reservoir. The TS system maintains the level of packing cooling water flow below the flooding level by automatic operation of an AC or DC pump. The AC pump automatically maintains the TS level between 2.5 inches and 6 inches by pumping TS contents directly to the Keowee tailrace. Should the AC pump fail or the level continue to increase with the AC pump in operation, when the TS level reaches 9 inches the DC pump would start and maintain TS level between 6 inches and 9 inches. Like the AC pump, the DC pump discharges directly to the Keowee tailrace. Any leakage that develops from the bearings or its the associated bearing oil would mix with the normal packing cooling flow and be discharged directly to the Keowee tailrace when the AC or DC TS pump started. Should a leak develop that drained oil from the generator thrust and guide bearing oil reservoir, Keowee statalarm would actuate 1-1/2 inches up from the bottom of the oil reservoir sight glass flange. An additional statalarm in the ONS Unit 2 Control Room would actuate as well as a Normal Lockout being generated for the associated Keowee unit and a 70 second timer actuated to shut down the Keowee unit, even if it is operating in Emergency Start mode. Upon receipt of the Keowee statalarm, the Operator would perform an inspection of the thrust bearing oil level and associated piping. Manual operator action would be required to secure the potential leak source, if possible, and prevent the AC or DC TS pumps from discharging the leaked oil to the Keowee tailrace.

The procedure for supervising the drainage of rain water from secondary containment into a storm drain or an open watercourse is as follows (include description of (a) inspection for pollutants, and (b) method of valving security):

CTP#3, which serves as secondary containment for many site systems, is equipped with a fixed concrete skimmer wall which limits only water greater than 16" deep to be continuously discharged downstream over a level-controlled spillway gate. The skimmer wall keeps the oil within the pond for removal and disposal. This pond also has an oil boom as an additional precaution in the event of an oil spill.

Operations procedures require the inspection of the contents of above ground storage tank secondary containment before discharging through valves. No drainage from other secondary containment goes directly to storm drains or water-course.

Drainage from the ONS Transportation Facility fuel loading/unloading area could potentially reach the wastewater conveyance area via a nearby yard drain that by-passes CTP#3. A drain cover designed for the purpose of spill containment is placed over the drain during major fuel loading/unloading. The Transportation Facility Spill Control Best Management Practices Manual contains provisions for loading and unloading fuel. Gasoline and diesel pumps at the ONS Transportation Facility are equipped with "breakaway" nozzles.

Secondary containment design, construction materials, and volume:
CTP#3 serves as secondary containment for most site drainage systems. Permanent aboveground tanks are also located in a diked storage area of concrete construction, with adequate volume to contain the contents of the largest tank in the storage area.

The facility relies on routine inspections, nearby spill response equipment, and timely response by facility personnel to detect and respond to the presence of a petroleum release.

Where applicable, all drainage from secondary containments at the Oconee Nuclear Station shall be performed according to the requirements of 40CFR112.8(b) and 112.8(c)(3). Pre-release inspections and containment drainages are conducted and documented according to procedures in Appendix C. Prior to draining any containment, accumulated water shall be inspected for the presence of oil or an oily sheen. If oil is present, the source of the oil shall be determined. All curbed or diked areas that surround bulk storage containers shall be secured with normally closed and secured valves, or emptying of the containments shall be performed manually via pumping. Valves, if present, shall be manually operated to drain accumulated storm water as necessary based on regular inspections.

If no oil or sheen is present, accumulated water within containments may be drained. In certain cases where a minimal sheen is observed, oil absorbent pads may be placed within the containment structure to remove the sheen. Should use of the adsorbent pads result in the complete removal of the sheen, collected stormwater may be discharged. The absorbent pads used to remove the sheen shall be disposed of properly.

Where applicable, collected water within containments shall be periodically inspected and drained per the plan inspection guidelines to maintain adequate spill storage capacity within the containment. At no time shall clean water be allowed to accumulate within any secondary containment to such a volume that the entire contents of the tank or vessel, plus allowance for adequate rainfall (per 40CFR112.8(c)), could not be contained in the event of a spill.

Unless noted, all drainage from this facility is performed according to the guidelines set forth in 40 CFR Section 112.8(b) and 112.8(c)(3). Records of containment drainage are to be developed and completed as outlined in this Plan or in conjunction with other

existing programs that require documentation of drainage events. For the purposes of this Plan, records of drainage events from secondary containment areas will be maintained at the facility and kept available for inspection for three years.

9.0 ENGINEERING & ADMINISTRATIVE CONTROLS

This section of the SPCC Plan document discusses the engineered and administrative controls that are in place to prevent and contain possible oil spills with a focus on testing and inspections.

Many tasks on site involve the use of various types of equipment such as cranes, compressors, lift trucks, portable pumps, diesel generators, etc. Spills and leaks of oil, fuel and hydraulic fluid can occur during transport, use, set-up and storage of equipment. ONS has an environmental work practice that provides guidance for installing, using or storing equipment on site using pro-active environmental Best Management Practices to reduce the potential of spills and releases to the environment.

9.1 Testing

9.1.1 Integrity Testing

Paragraph 40 CFR 112.8(c)(6) requires that each aboveground bulk storage container be tested or inspected for integrity on a regular schedule or whenever material repairs are made. In accordance with industry standards, the facility must determine the appropriate qualifications for personnel performing tests and inspections, the frequency and type of testing and inspections, which take into account container size, configuration, and design.

Not all bulk storage containers need to be formally integrity tested. The discussion in the preamble to 40CFR112 states that visual inspection alone may suffice when other mitigating circumstances are present which may include one or more of the following: tank not bearing on earth and visible all around, tank in good condition and free of rust and corrosion, tank protected from weather, presence of redundant containments, tank inclusion in a site preventive maintenance program or in a site drum program, etc. For well designed shop-built containers having shell capacities of less than or equal to 30,000 gallons, EPA provides a provision for the requirements of visual inspections only when combined with at least one of the two following conditions:

- The container must be elevated in such a manner as to make all sides of the container, including the bottom, visible for inspection (*i.e. containers mounted on saddles, structural frames, grillage, etc.*), or
- The container must be placed on a barrier that separates the tank from the ground surface and that is designed in such a way as to ensure that any leaks from the container are immediately detected or observed (*i.e. a tank resting on a concrete slab or other impervious surface*).

Oil filled operational equipment (including hydraulic systems, lubricating systems, gear boxes, machining coolant systems, heat transfer systems, transformers, circuit breakers, electrical switches, and any piping intrinsic to this type of equipment in a closed-loop system) are considered oil in use containers and are **not** required to be integrity tested. 55 gallon drums maintained at the facility are **not** required to be integrity tested.

In consideration of the provisional conditions outlined above; and based on the types, sizes, locations and characteristics of the bulk storage containers at the Oconee Nuclear Station; only the two above-ground diesel fuel storage tanks (30,000 gallon and 45,000 gallon) are subject to integrity testing in accordance with 40 CFR 112.7(a)(2). All other bulk storage containers at the facility are subject to periodic visual inspection only.

The Steel Tank Institute Standard for the Inspection of Aboveground Storage Tanks (SP001) is the industry standard that the facility uses for guidance with respect to the testing of the oil storage tanks. Based on this standard, the exterior of such tanks will be visually inspected monthly and annually for leaks and any indication of deterioration with results noted on the appropriate inspection forms.

In addition, the two above-ground diesel fuel storage tanks (30,000 gallon and 45,000 gallon) will be scheduled for a formal external inspection by a certified inspector per SP001 at least every 20 years or whenever material repairs are made. Records of this testing will be maintained onsite for twenty years.

The table below summarizes the integrity inspection requirements.

Tank Description and Contents	Tank Capacity (gallons)	Tank Construction	Integrity Testing Requirement	Industry Standard
Auxiliary Boiler Fuel AST: Diesel Fuel	45,000	Steel (Shop-built)	Monthly and Annual Visual Inspection and Formal External Inspection by Certified Inspector Every 20 Years.	Steel Tank Institute Standard for the Inspection of Aboveground Storage Tanks (SP001)
Auxiliary Boiler Fuel AST: Diesel Fuel	30,000			

As part of the monthly inspection, all aboveground valves, piping, and appurtenances should be inspected. The outside of each container must also be inspected for signs of deterioration, discharges, or accumulation of oil inside diked areas.

Visible discharges which result in a loss of oil from the container, including but not limited to seams, gaskets, piping, pumps, valves, rivets, bolts, etc. must be promptly corrected. Also, any accumulations of oil in diked areas must be promptly removed. Spilled materials will be disposed of in accordance with all the applicable Federal, State, or local requirements.

Integrity testing of bulk storage containers is subject to the environmental equivalents provision in 40 CFR 112.7(a)(2). All integrity testing records shall be signed by the inspector and maintained at the facility.

9.1.2 High Level Indicator and Over-Fill Protection Testing

Liquid level sensing devices associated with bulk storage containers are required to be tested per 40CFR112.8(c)(8)(v). These devices may include level gauges, alarms, high level pump shutoffs, etc. Regardless of the type used, these liquid level sensing devices are to be tested as part of the initial implementation of this Plan and regularly thereafter.

The two diesel fuel storage tanks (30,000 gallon and 45,000 gallon) are equipped with Level Transmitters (0FO-LT-0023 and 0FO-LT-0024) that monitor tank level and provide signal to separate gauges (0FO-P-129 and 0FO-P-130), which alarm on high and low levels. All high level alarm systems are tested in accordance with station procedures.

Most of the remaining bulk storage containers at the facility are equipped with sight gauges to prevent overfilling. There are no sight gauges for the small portable diesel and gasoline storage tanks on the fuel truck; nor for any 55 gallon drums at the facility.

Records of all inspections and integrity testing shall be recorded on the inspection checklist as noted in the procedure listed in Appendix C. According to 40CFR112.7(e), records of inspections and tests, signed by the appropriate supervisor or inspector, must be maintained for a period of three years.

9.2 Inspections

All SPCC oil containers and above-ground piping are subject to periodic visual inspections as described herein. Oconee Nuclear Station personnel shall conduct self-inspections and provide written procedures and records of inspections per 40CFR112.7(e). Inspections shall be consistent with written facility operating procedures reference throughout this Plan. Inspecting personnel shall be trained in accordance with the requirements outlined in Section 10.0 related to proper inspection and documentation requirements related to the SPCC Plan. Inspection sheets shall include the name of the inspector and the date of inspection, and records of inspections shall be maintained with the SPCC Plan for a minimum period of three years. The following procedures and forms are examples of those used to document inspections:

- Keowee Hydro Station (KHS Shift Turnover and Rounds – OP/0/A/2000/043)
- Turbine Building Basement Rounds (OP/1/A/1102/020B)
- SSF and Outside Rounds (OP/2/A/1102/020D)
- Monthly visual inspection conducted for the Industrial Stormwater Inspection SCR000000

Areas around or near yard drains are inspected for spills. Equipment located near yard drains which could cause a potential spill into the yard drain is inspected daily. Chemical Treatment Pond #3 (CTP#3) is inspected daily during daylight hours for oil contaminated water. ONS Security patrols Keowee Hydro Station, Turbine Building drains, ONS Intake, Warehouse #7, CTP#3, switchyards, World of Energy, intake canal skimmer wall, Keowee Storage Building, L-1 Lay-down yard, Keowee Tailrace and Intake, ONS Transportation Facility, Oconee Complex, Dry Cask storage area, Geotechnical Center, Mosquito Control Facility and the Maintenance Training facility. Patrols are documented

on an OC Checklist Form (Owner Control Checklist). All Security patrols are trained and qualified to this task.

ONS Operations inspects plant premises twice daily for anything out of the ordinary as provided in various operations procedures. These areas include intake, discharge, switchyards, above ground tanks and containment, and the protected area. The plant turbine building sumps are also inspected twice daily for oil contamination. PT/2/A/0600/001 is used to document the surveillance and is maintained as the record of these inspections.

ONS Environmental Chemistry inspects CTP#3 daily for oil accumulation, as required by National Pollutant Discharge Elimination System Monitoring and Sampling Program. Oil is removed immediately to further reduce the likelihood of oil being discharged to the Keowee River.

ONS Transportation Facility underground tanks are electronically monitored daily. Records are maintained for 12 months at the ONS Transportation Facility. Equipment is visually inspected on an as-used basis.

Keowee Hydro Station operators visually inspect all station equipment, including the hydro station sumps and tailrace, for traces of oil during each workday shift as specified by Operations Management Procedure OMP 5-2. Procedure OP/0/A/2000/043 provides the method for surveillance/ inspection and record keeping.

Duke Power Company conducts various inspections of the Oconee Nuclear Site which assist in identifying potential problems and needed maintenance. The site Engineering Group conducts 5-year Civil Inspections of all site equipment and structures. These inspections include inspections of equipment supports and foundations, secondary containment systems, etc. The Civil Engineering Group also performs annual inspections on the site treatment ponds.

Tank inspection methods, procedures, and record keeping:

A. Above ground tanks are inspected externally once per 12 hour shift inside the radiologically protected area and at least once per week outside the protected area.

B. Underground tanks at the ONS Transportation Facility are monitored according to SCDHEC Underground Storage Tank Regulations which require separate records for each tank to include as a minimum, a daily record of the amount of stored regulated substance withdrawn and received, the level of water in the tank, and the amount of stored regulated substance in the tank. The records shall include a daily computation of gain or loss of the stored regulated substance. Records of all inspections are maintained onsite for one year. Provisions for record keeping are contained in the ONS Transportation Facility Spill Control Best Management Practices manual.

C. The 550-gallon used oil tank at the Oconee Complex is monitored twice per week as required per regulations.

D. As a result of Nuclear Regulatory Commission operability requirements, an alternate inventory control program for the Standby Shutdown Facility underground storage tank was proposed by Duke Power Company and approved by SCDHEC. The alternate program requirements are:

1) Outflow measurements via internal level instrumentation readings before and after each use.

2) Tank will be thoroughly mixed, via the recirculation line, and sampled for water and sediment content each day product is added or removed.

3) The level of combined water and product will be measured each day product is added or removed.

4) Individual levels of water and product in the tank will be calculated from water and sediment analysis results.

5) Mass balances will be calculated to compare measured outflow to measured changes in tank volumes, and to calculate unaccounted for gains and losses.

6) The tank is cathodically protected, and the impressed current is verified operable annually.

Reference Procedures: MP/O/A/5050/039 Diesels SSF, PM and Inservice Inspection 12 year USFAR Ch. 18, Section 18.3.17.14 SSF Diesel Fuel Oil Tank Inspection MP/O/A/5050/017 Diesels SSF Op. Inspection and Tests

CTP#3 is subject to monthly SCDHEC NPDES discharge monitoring requirements for oil and grease. Daily visual inspections by Environmental Chemistry for accumulation of oil are performed per National Pollutant Discharge Elimination System Monitoring and Sampling Program.

9.2.1 Oil Containers, Oil-filled Operational Equipment, Fuel Unloading Areas and Aboveground Piping (as applicable)

At a minimum, the following items should be inspected at the indicated frequency for all bulk oil storage tanks and drums, oil filled operational equipment, fuel unloading/loading areas, and aboveground piping:

Tanks and Drums
Minimum inspection frequency: ***Monthly***

- presence of leaks/drips
- condition of foundations or other support structure

- corrosion of container shell and supports
- container base condition
- condition and operation of liquid level sensing devices (if present)

Oil-filled Operational Equipment (Transformers, Lube Oil Systems, etc.)
Minimum inspection frequency: ***Monthly***

- presence of leaks/drips
- condition of foundations or other support structure
- corrosion of container shell and supports
- container base condition
- condition and operation of liquid level sensing devices (if present)

Aboveground Piping
Minimum inspection frequency: ***Monthly***

- presence of leaks/drips
- condition of fittings
- condition of structural supports
- protection from contact
- presence of excess corrosion

9.2.2 Secondary Containment Systems

At a minimum, the following items shall be checked at the indicated frequency for all secondary containment systems at the facility:

Interior containments:
Minimum inspection frequency: ***Monthly***

Inspect for: Presence of oil, condition of containment, presence of debris.

Actions: <u>If clean, no debris, containment in good condition:</u>
No action required, document inspection results.

<u>If oil present:</u>
Notify site SPCC Coordinator, trace source of oil, initiate response actions, and document inspection results.

Interior floors and thresholds:
Minimum inspection frequency: ***Monthly***

Inspect for: Presence of oil, condition of thresholds, presence of debris.

Actions: <u>If clean, no debris, threshold in good condition:</u>
No action required, document inspection results.

<u>If oil present:</u>
Notify site SPCC Coordinator, trace source of oil, initiate response actions, and document inspection results.

Exterior containments with open drains:
Minimum inspection frequency: ***Monthly and after any significant rainfall event***

Inspect for: Presence of oil, oil stains or sheen; condition of containment structure, drain open, presence of debris, excessive rainwater accumulation.

Actions: If clean, drain open, no debris, no excessive water accumulation:
No action required, document inspection results.

If oil or sheen present:
Notify site SPCC Coordinator, trace source of oil, initiate response actions, and document inspection results.

If drain blocked or inoperative:
Notify site SPCC Coordinator, remove blockage , repair or replace drain.

Exterior containments with drain valves:
Minimum inspection frequency: ***Monthly and after any significant rainfall event***

Inspect for: Presence of oil, oil stains or sheen; condition of containment structure, drain closed and secured, presence of debris, excessive rainwater accumulation.

Actions: If clean, drain closed and secured, no debris, no excessive water accumulation:
No action required, document inspection results.

If oil or sheen present:
Notify site SPCC Coordinator, trace source of oil, initiate response actions, and document inspection results.

If drain blocked or inoperative:
Notify site SPCC Coordinator, remove blockage , repair or replace drain.

Yard drains:
Minimum Inspection frequency: ***Monthly and after any known oil spill***

Inspect for: Presence of excessive oil; presence of obstructions or debris, yard drains unobstructed.

Actions: If operating properly – No action required.

If excessive oil present - notify site SPCC Coordinator and trace source of oil.

If debris or obstructions present – notify SPCC Coordinator and remove debris.

During periods of heavy rain, more frequent inspections of external secondary containments shall be made to assure adequate retention capacity is maintained.

9.2.3 Release Response Equipment

Adequate spill response equipment and supplies are maintained at the Oconee Nuclear Station.

ONS conducts a quarterly inspection of hazardous materials response team equipment according to Procedure No. PT/0/B/0250/045. The procedure includes an inventory of spill response equipment and materials.

Inventories of response equipment shall be inspected **quarterly** and after any spill response event to ensure supplies are properly maintained at the facility.

10.0 PERSONNEL TRAINING

Management has designated the Lead EHS Professional as the individual accountable for petroleum release prevention in accord with 40CFR112.7(f).

SPCC training is computer-based and conducted annually (at a minimum) for employees who operate equipment to prevent oil discharge, inspect oil equipment and systems, monitor bodies of water for evidence of oil spills, are responsible for oil spill cleanup, or report oil contamination on water to local, state, and federal agencies.

This annual training will also serves as the required spill prevention briefings for oil handling personnel. New employees shall be given this training as part of their orientation program. The annual SPCC training shall train personnel at a minimum on:

- SPCC Plan required inspection and documentation requirements;
- Procedures to follow upon discovery of any petroleum release;
- Applicable pollution control laws and regulations;
- Use of release response and clean-up supplies, equipment and materials;
- Description and causes of known petroleum releases at the facility;
- Information on names and phone numbers for reporting releases to appropriate facility personnel; and
- General contents of the SPCC Plan.

Records of all SPCC training shall be maintained via normal facility training recordkeeping systems which includes electronic documentation using the Learning Management System (LMS), which is maintained by the ONS Training Group.

11.0 SECURITY MEASURES

(b)(7)(F)

12.0 RECORD KEEPING

Records of system and equipment inspections, drainage events and petroleum release prevention training and drills are maintained at the site. Training records are maintained electronically through the Learning Management System (LMS). Maintaining of records is required under 40 CFR 112.7 (e) and 112.8(c)(3). According to 40CFR112.7(e), records of inspections and tests, signed by the appropriate supervisor or inspector, must be maintained for a period of three years.

Spill events are to be documented and maintained electronically via the PIP/CR database, which is the facility database that documents non-compliance issues.

The Reportable Spill Report Form is provided Enclosure 4.2 of Spill Response Procedure No. RP/0/A/1000/017.

13.0 PLAN REVIEW RECORDS

As required by 40CFR112.5(a), an amendment to this Plan will be made whenever changes in design, construction, operation or maintenance occur which may affect the potential of the Oconee Nuclear Station to discharge oil to navigable waters. Amendments to the Plan document are to be made within six months of the change to the facility. Any additional facility modifications recommended by the amended Plan must be implemented as soon as possible, but not later than six months after preparation of the amended Plan.

In accordance with 40CFR112.4(a), certain information must be submitted to the EPA Regional Administrator in the event that the Oconee Nuclear Station experiences:

- A single petroleum release to waters of the US in excess of 1,000 gallons, or
- Two petroleum releases to waters of the US in excess of 42 gallons occurring within any 12 month period.

In the absence of the specific changes to the site as described above, 40CFR112.5(a) requires that this Plan be periodically reviewed and evaluated once every five years, and the Plan document must be amended within six months of the review. The review will consider changes in oil storage or handling equipment and improvements in petroleum release prevention and control technology that could significantly reduce the potential for a release event. Plan-recommended changes are to be implemented as soon as possible but not later than six months after preparation of the amended Plan document. The review and evaluation must be documented and include a statement as to whether the Plan will be amended.

Technical amendments to the Plan are to be certified by a Registered Professional Engineer. This includes changes in the design, construction, operation, maintenance, or addition of permanent or temporary oil capacity at the facility. All Plan reviews and amendments shall be documented in Table 13-1 of this Plan. Non-technical changes do not require certification, but shall be documented in Table 13-1. Examples of non-technical changes include changes in responsible persons, emergency contact names, phone numbers, quantities and types of response equipment and supplies, etc.

TABLE 13-1

SPCC PLAN RECORD OF REVIEW

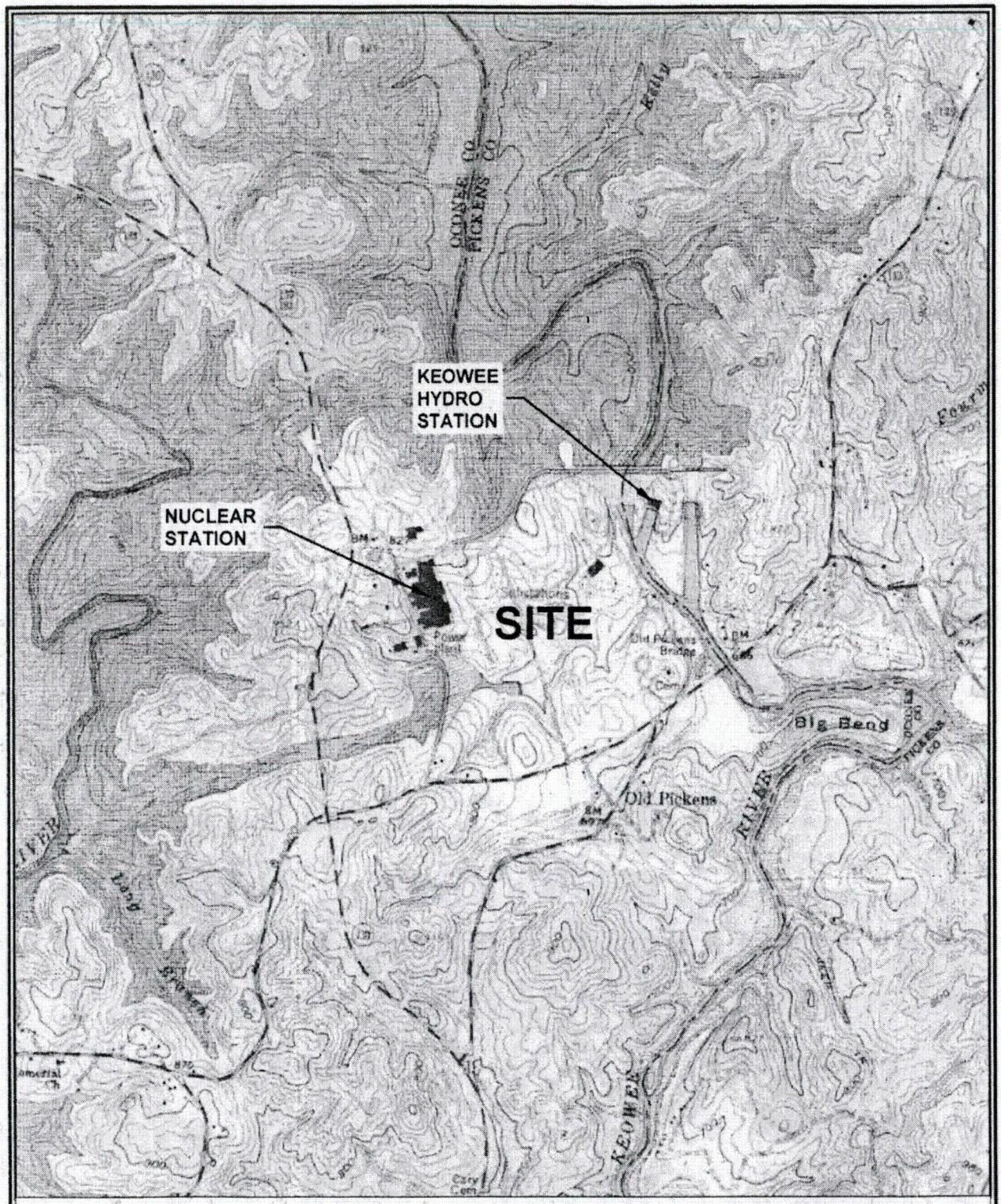
I have completed review and evaluation of the SPCC Plan at the Oconee Nuclear Station on the date specified below and the Plan will/will not be amended as described in the table below.

Review Date	Reviewed By	Plan Amended? (Yes/No)	Changes/Comments

14.0 CONFORMANCE WITH OTHER REGULATIONS

In accordance with 40CFR112.7(j), this SPCC Plan does not incorporate any additional requirements of the State of South Carolina or its agencies, or any local, city or county requirements.

FIGURES



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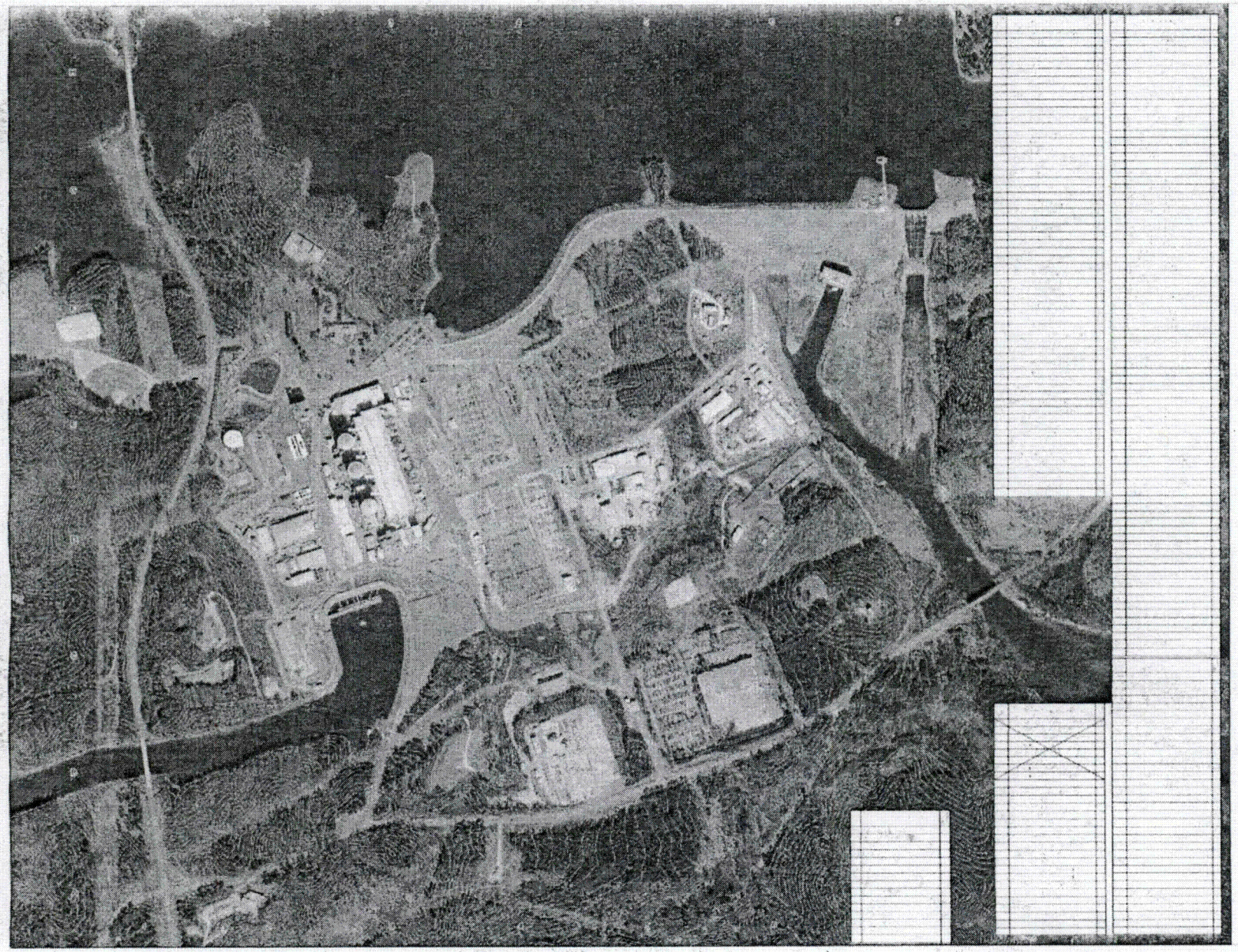
Rogers & Callcott
ENVIRONMENTAL

DRAWN BY: MAL 4/15/2015
CHECKED BY: ACF
APPROVED BY: ACF

REFERENCE:
USGS Six Mile and Old Pickens 7.5 minute quadrangles obtained from SCDNR

Wednesday, April 15, 2015, 01:16:17 PM
C:\GIS\PROJECTS\Duke\14-104\Maps\Fig 1 Location.mxd

FIGURE 1
SITE LOCATION MAP
DUKE ENERGY CAROLINAS, LLC
OCONEE NUCLEAR STATION
KEOWEE HYDRO STATION
7800 Rochester Highway
Seneca, SC 29672



Rogers & Callcott

FIGURE 2
SPCC SITE PLAN AND PETROLUEM SOURCE LOCATIONS

DUKE ENERGY CAROLINAS, LLC
OCONEE NUCLEAR STATION
7800 ROCHESTER HIGHWAY
SENECA, SC 29672

N

APPENDIX A

CERTIFICATION OF SUBSTANTIAL HARM DETERMINATION FORM

CERTIFICATION OF SUBSTANTIAL HARM DETERMINATION FORM

Facility Name: Oconee Nuclear Station and Keowee Hydro Station
Facility Address: 7800 Rochester Highway, Seneca, South Carolina 29672

1. Does the facility have a maximum storage capacity greater than or equal to 42,000 gallons *and* do the operations include over water transfers of oil to or from vessels?

   Yes ____ No X

2. Does the facility have a maximum storage capacity greater than or equal to one million (1,000,000) gallons *and* is the facility without secondary containment for each aboveground storage area sufficiently large to contain the capacity of the largest aboveground storage tank within the storage area?

   Yes ____ No X

3. Does the facility have a maximum storage capacity greater than or equal to one million (1,000,000) gallons *and* is the facility located a distance as calculated using the appropriate formula in Attachment C-III of the Regulations or an alternative formula considered acceptable by the RA (alternate formula attached if applicable) such that a discharge from the facility could cause injury to an environmentally sensitive area?

   Yes ____ No X

4. Does the facility have a maximum storage capacity greater than or equal to one million (1,000,000) gallons *and* is the facility located at a distance as calculated using the appropriate formula in Attachment C-III of the Regulations or an alternative formula considered acceptable by the RA (alternate formula attached if applicable) such that a discharge from the facility would shut down a public drinking water intake?

   Yes ____ No X

5. Does the facility have a maximum storage capacity greater than or equal to one million (1,000,000) gallons *and* within the past 5 years, has the facility experienced a reportable spill in an amount greater than or equal to 10,000 gallons?

   Yes ____ No X

Certification:

I certify under penalty of law that I have personally examined and am familiar with the information submitted in this document, and that based on my inquiry of those individuals responsible for obtaining this information, I believe that the submitted information is true, accurate, and complete.

NAME (print): Scott Batson SIGNATURE: Scott L. Batson

TITLE: Site Vice President DATE: 05-12-2015

APPENDIX B

EMERGENCY CONTACT LIST

All spills onsite will be reported to the control room at Ext. 4911. From an off-site phone dial 864-873-4911.

INTERNAL CONTACTS			
Facility SPCC Coordinator	**John Estridge**	**Work:** **Cell:**	864-873-3979 (b)(6)
Secondary Facility Contact	Control Room		Ext. 4911 864-873-3271
Duke Energy Spill Hotline:			**800-510-7439**
If unable to reach the on-call hotline, contact the following as indicated:			
Duke Energy Public Affairs:	888-266-3853 (266-DUKE) or 704-382-9152		

EXTERNAL CONTACTS	
Contract Spill Response:	
A&D Environmental Services	800-434-7750
General Emergency	911
National Response Center	800-424-8802
EPA Region IV Emergency	404-562-8700
SCDHEC Emergency	(803) 253-6488 / (888) 481-0125
Nuclear Regulatory Commission	Ext. 3001 or Ex. 3008
Oconee County Emergency Preparedness	(864) 638-4111
Pickens County Emergency Preparedness	(864) 898-5500

APPENDIX C

POTENTIAL OIL SPILL SOURCES

Oconee Nuclear Station
SPCC Materials Inventory
April 2015

SUMMARY OF SITE OIL STORAGE	
Building/Area	Total Oil Storage Capacity (gallons)
Flex Dome	6411
West Parking Lot	988
RP Building	333
Final Lift Station	200
Entrance Road	18391
SSC Building	870
Discharge Structure	300
Maintenance Support	130
ONS Turbine Bld	298794
ONS Auxiliary Bld	417
SSF	50550
Oil Pen	2000
Contaminated Used Oil	3000
Cafeteria ONS	250
Machine Shop	250
ONS Receiving	350
Office Bld	3598
44 KV Switchyard	5547
CT-5 Switchyard	24772
230 KV Switchyard	61265
525 KY Switchyard	101775
Intake Structure	660
AST	75000
Warehouse No. 4	150
Maintenance Training Facility	345
Warehouse No. 5	750
Keowee Hydro Station	38546
Oconee Transportation	27510
Oconee Complex	1290
World of Energy	218
L-1 Yard	1936
Oconee Technical Training Center	487
B5B pump	275
FACILITY TOTAL:	**727,358**

Oconee Nuclear Station
SPCC Materials Inventory
April 2015

Flex Dome										
Building	Location/Product	Type of Container	Total Storage Capacity (gallons)	Failure Mode	Low Release Rate (gal/hr)	High Release Rate (gal/hr)	Direction of Flow/Containment	Containment Inspected Before Draining?	PM/Inspection	Overfill Protection/ Loading Procedure?
8010	Mobile fuel tank: 1350 gallons of ULSD (Ultra Low Sulfur Diesel Fuel)	MOC	1350	Tank rupture	13	135	Leakage or spill will be contained within Flex Dome during storage of equipment.	N/A	Monthly PM inspection.	N/A
8010	Three hydraulic submersible pumps (112 gals each)	OOE	336	Tank rupture	1	11	Leakage or spill will be contained within Flex Dome during storage of equipment.	N/A	Monthly PM inspection.	N/A
8010	Four Reactor Coolant System Makeup (RCSMU) pumps (90 gals each)	OOE	360	Tank rupture	1	9	Leakage or spill will be contained within Flex Dome during storage of equipment.	N/A	Monthly PM inspection.	N/A
8010	SGMU/SFPMU (Steam Generator Makeup) pumps (350 gals each)	OOE	700	Tank rupture	3	35	Leakage or spill will be contained within Flex Dome during storage of equipment.	N/A	Monthly PM inspection.	N/A
8010	Four 600 kV Generators (450 gals each)	OOE	1800	Tank rupture	5	45	Leakage or spill will be contained within Flex Dome during storage of equipment.	N/A	Monthly PM inspection.	N/A
8010	Fuel Oil (refueling) Trailer	MOC	1240	Tank rupture	12	124	Leakage or spill will be contained within Flex Dome during storage of equipment.	N/A	Monthly PM inspection.	N/A
8010	3000 gpm pump	OOE	350	Tank rupture	3	35	Leakage or spill will be contained within Flex Dome during storage of equipment.	N/A	Monthly PM inspection.	N/A
8010	1500 gpm pump	OOE	275	Tank rupture	3	28	Leakage or spill will be contained within Flex Dome during storage of equipment.	N/A	Monthly PM inspection.	N/A
TOTAL			6411							

Oconee Nuclear Station
SPCC Materials Inventory
April 2015

West Parking Lot										
Building	Location/Product	Type of Container	Total Storage Capacity (gallons)	Failure Mode	Low Release Rate (gal/hr)	High Release Rate (gal/hr)	Direction of Flow/Containment	Containment Inspected Before Draining?	PM/Inspection	Overfill Protection/ Loading Procedure?
8090	Transformer: Oil	OOE	283	Tank rupture	3	28	Leakage or spill will flow to yard drains, then CTP-3.	N/A	Monthly visual per Industrial Stormwater Inspection SCR000000	N/A
8090	Transformer: Oil	OOE	243	Tank rupture	3	24	Leakage or spill will flow to yard drains, then CTP-3.	N/A	Monthly visual per Industrial Stormwater Inspection SCR000001	N/A
8090	Transformers: Oil contained in 6 units (77 gals each)	OOE	462	Tank rupture	0.77	8	Leakage or spill will flow to yard drains, then CTP-3.	N/A	Monthly visual per Industrial Stormwater Inspection SCR000002	N/A
TOTAL			988							

Oconee Nuclear Station
SPCC Materials Inventory
April 2015

RP Building										
Building	Location/Product	Type of Container	Total Storage Capacity (gallons)	Failure Mode	Low Release Rate (gal/hr)	High Release Rate (gal/hr)	Direction of Flow/Containment	Containment Inspected Before Draining?	PM/Inspection	Overfill Protection/ Loading Procedure?
8080	Pad Transformer	OOE	333	Tank rupture	3	33	Leakage or spill will flow to yard drains, then CTP-3.	N/A	Monthly visual per Industrial Stormwater Inspection SCR000000	N/A
TOTAL			333							

Oconee Nuclear Station
SPCC Materials Inventory
April 2015

Final Lift Station										
Building	Location/Product	Type of Container	Total Storage Capacity (gallons)	Failure Mode	Low Release Rate (gal/hr)	High Release Rate (gal/hr)	Direction of Flow/Containment	Containment Inspected Before Draining?	PM/Inspection	Overfill Protection/ Loading Procedure?
Near 8047	Final Lift Station / Generator: Diesel	OOE	200	Tank rupture	2	20	Leakage or spill will flow to yard drains, then CTP-3.	N/A	Monthly visual per Industrial Stormwater Inspection SCR000000 and Chemistry daily	N/A
TOTAL			200							

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Entrance Road										
Building	Location/Product	Type of Container	Total Storage Capacity (gallons)	Failure Mode	Low Release Rate (gal/hr)	High Release Rate (gal/hr)	Direction of Flow/Containment	Containment Inspected Before Draining?	PM/Inspection	Overfill Protection/ Loading Procedure?
Near A13	Entrance Road / Transformer: Oil	OOE	17968	Tank rupture	180	1800	Leakage or spill will flow to concrete containment area	EWP 8.3	Monthly visual per Industrial Stormwater Inspection SCR000000	N/A
Near A13	Entrance Road / Transformer: Oil	OOE	423	Tank rupture	4	42	Leakage or spill will flow to yard drains, then CTP-3.	EWP 8.3	Monthly visual per Industrial Stormwater Inspection SCR000000	N/A
TOTAL			18391							

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SSC Building										
Building	Location/Product	Type of Container	Total Storage Capacity (gallons)	Failure Mode	Low Release Rate (gal/hr)	High Release Rate (gal/hr)	Direction of Flow/Containment	Containment Inspected Before Draining?	PM/Inspection	Overfill Protection/ Loading Procedure?
80113	SSC Bld / Transformer: Oil	OOE	520	Tank rupture	5	52	Leakage or spill will flow to yard drains, then CTP-3.	EWP 8.3	Monthly visual per Industrial Stormwater Inspection SCR000000	N/A
80113	SSC Bld / Fire Pump: Diesel	OOE	350	Tank rupture	3	35	Leakage or spill will flow to yard drains, then CTP-3.	EWP 8.3	Monthly visual per Industrial Stormwater Inspection SCR000000	N/A
TOTAL			**870**							

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Discharge Structure										
Building	Location/Product	Type of Container	Total Storage Capacity (gallons)	Failure Mode	Low Release Rate (gal/hr)	High Release Rate (gal/hr)	Direction of Flow/Containment	Containment Inspected Before Draining?	PM/Inspection	Overfill Protection/ Loading Procedure?
A14	Discharge Structure / Transformer: Oil	OOE	300	Tank rupture	3	30	Leakage or spill will flow to Lake Keowee	N/A	Monthly visual per Industrial Stormwater Inspection SCR000000	N/A
TOTAL			300							

Maintenance Support Building										
Building	Location/Product	Type of Container	Total Storage Capacity (gallons)	Failure Mode	Low Release Rate (gal/hr)	High Release Rate (gal/hr)	Direction of Flow/Containment	Containment Inspected Before Draining?	PM/Inspection	Overfill Protection/ Loading Procedure?
8067	Maintenance Support Cafeteria: Used cooking oil (1000 lbs)	BSC	130	Tank rupture	10 lbs/hr	100 lbs/hr	Leakage or spill will flow to yard drains, then CTP-3.	N/A	Monthly visual per Industrial Stormwater Inspection SCR000000	none
TOTAL			130							

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ONS Turbine Building										
Building	Location/Product	Type of Container	Total Storage Capacity (gallons)	Failure Mode	Low Release Rate (gal/hr)	High Release Rate (gal/hr)	Direction of Flow/Containment	Containment Inspected Before Draining?	PM/Inspection	Overfill Protection/ Loading Procedure?
8083	Transformer 3Y – Unit 3 east side of turbine building: Oil	OOE	24000	Tank rupture	240	2400	Leakage or spill will flow to graveled containment area surrounded by 6" high concrete curbing.	N/A	Procedure No. OP/2/A/1102/020 D; Daily inspection	N/A
8083	Transformer 3Z- Unit 3, east side of turbine building: Oil	OOE	24000	Tank rupture	240	2400	Leakage or spill will blow to graveled containment area surrounded by 6" high concrete curbing.	N/A	Procedure No. OP/2/A/1102/020 D; Daily inspection	N/A
8083	Transformer 3 square – Unit 3, east side of turbine building : Oil	OOE	24000	Tank rupture	240	2400	Leakage or spill will flow to graveled containment area surrounded by 6" high concrete curbing.	N/A	Procedure No. OP/2/A/1102/020 D; Daily inspection	N/A
8083	Transformer CT4 – Unit 3, east side of turbine building: Oil	OOE	3546	Tank rupture	35	355	Leakage or spill will flow to graveled containment area surrounded by 6" high concrete curbing.	N/A	Procedure No. OP/2/A/1102/020 D; Daily inspection	N/A
8083	Transformer CT5 – Unit 3, east side of turbine building: Oil	OOE	4734	Tank rupture	47	473	Leakage or spill will flow to graveled containment area surrounded by 6" high concrete curbing	N/A	Procedure No. OP/2/A/1102/020 D; Daily inspection	N/A
8085	Diesel fuel storage tank (above ground) – south side of turbine building: Diesel fuel	BSC	1000	Tank rupture	10	100	Leakage or spill will flow to pavement to yard drains to CTP-3.	N/A	Procedure No. OP/2/A/1102/020 D; Daily inspection	Overfill Protection
8076	Transformer 1T – Unit 1, east side of turbine building: Oil	OOE	9700	Tank rupture	97	970	Leakage or spill will flow to graveled containment area surrounded by 6" high concrete curbing.	N/A	Procedure No. OP/2/A/1102/020 D; Daily inspection	N/A
8076	Transformer 1M – Unit 1, east side of turbine building: Oil	OOE	17470	Tank rupture	175	1747	Leakage or spill will flow to graveled containment area surrounded by 6" high concrete curbing.	N/A	Procedure No. OP/2/A/1102/020 D; Daily inspection	N/A
8076	Transformer CT1 – Unit 1, east side of turbine building: Oil	OOE	18892	Tank rupture	189	1889	Leakage or spill will flow to graveled containment area surrounded by 6" high concrete curbing	N/A	Procedure No. OP/2/A/1102/020 D; Daily inspection	N/A

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ONS Turbine Building										
Building	Location/Product	Type of Container	Total Storage Capacity (gallons)	Failure Mode	Low Release Rate (gal/hr)	High Release Rate (gal/hr)	Direction of Flow/Containment	Containment Inspected Before Draining?	PM/Inspection	Overfill Protection/ Loading Procedure?
8079	Transformer 2T – Unit 2, east side of turbine building: Oil	OOE	9699	Tank rupture	97	970	Leakage or spill will flow to graveled containment area surrounded by 6" high concrete curbing	N/A	Procedure No. OP/2/A/1102/020 D; Daily inspection	N/A
8079	Transformer 2M – Unit 2, east side of turbine building: Oil	OOE	18387	Tank rupture	184	1839	Leakage or spill will flow to graveled containment area surrounded by 6" high concrete curbing	N/A	Procedure No. OP/2/A/1102/020 D; Daily inspection	N/A
8079	Transformer CT2 – Unit 2, east side of turbine building: Oil	OOE	18892	Tank rupture	189	1889	Leakage or spill will flow to graveled containment area surrounded by 6" high concrete curbing	N/A	Procedure No. OP/2/A/1102/020 D; Daily inspection	N/A
8083	Transformer 3T – Unit 3, east side of turbine building: Oil	OOE	9699	Tank rupture	97	970	Leakage or spill will flow to graveled containment area surrounded by 6" high concrete curbing	N/A	Procedure No. OP/2/A/1102/020 D; Daily inspection	N/A
8083	Transformer 3X – Unit 3, east side of turbine building: Oil	OOE	24000	Tank rupture	240	2400	Leakage or spill will flow to graveled containment area surrounded by 6" high concrete curbing	N/A	Procedure No. OP/2/A/1102/020 D; Daily inspection	N/A
8067	Maintenance Support Building transformer (RTE): Oil	OOE	490	Tank rupture	5	49	Leakage or spill flows to graveled containment area to yard drains to CTP-3.	N/A	No regularly scheduled inspection. Visual daily by security.	N/A
8076, 8079, 8083	Transfer oil storage tank – 3 tanks, one each at northeast corner, middle, and southeast corner of turbine building basement: Oil (14,000 gals each)	BSC	42000	Tank rupture	140	1400	Tanks are surrounded by concrete containment wall. Flow outside containment walls will flow to turbine building sumps.	N/A	Procedure No. OP/1/A/1102/020 B; Tank inspected daily by operations during required walk-through inspections.	Loading Procedure No. OP/3/A/1106/024
8076, 8079, 8083	Main turbine oil tank – 3 tanks, one for each turbine, accessible from second floor of turbine building: Oil (7450 gals each)	BSC	22350	Tank rupture	74	745	Tanks are surrounded by concrete containment wall. Flow outside containment walls will flow to turbine building sumps.	N/A	Tank inspected daily by operations during required walk-through inspections.	Loading Procedure No. OP/3/A/1106/024

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ONS Turbine Building										
Building	Location/Product	Type of Container	Total Storage Capacity (gallons)	Failure Mode	Low Release Rate (gal/hr)	High Release Rate (gal/hr)	Direction of Flow/Containment	Containment Inspected Before Draining?	PM/Inspection	Overfill Protection/ Loading Procedure?
8076, 8079, 8083	Pumps located in Turbine Building, Auxiliary Building: Oil contained in 721 pumps	OOE	25050	Leak/engine rupture	1	2	Leakage or spill will flow to building sumps.	N/A	Procedure No. OP/1/A/1102/020 B; Tank inspected daily by operations during required walk-through inspections.	N/A
8085	Service Air Compressor	OOE	295	Rupture	1	295	To internal containment tank or to storm drain to CTP3	N/A	Procedure No. OP/2/A/1102/020 D; Daily inspection	N/A
8085	Service Air Compressor	OOE	295	Rupture	1	295	To internal containment tank or to storm drain to CTP3	N/A	Procedure No. OP/2/A/1102/020 D; Daily inspection	N/A
8085	Service Air Compressor	OOE	295	Rupture	1	295	To internal containment tank or to storm drain to CTP3	N/A	Procedure No. OP/2/A/1102/020 D; Daily inspection	N/A
TOTAL			298,794							

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ONS Auxiliary Building										
Building	Location/Product	Type of Container	Total Storage Capacity (gallons)	Failure Mode	Low Release Rate (gal/hr)	High Release Rate (gal/hr)	Direction of Flow/Containment	Containment Inspected Before Draining?	PM/Inspection	Overfill Protection/ Loading Procedure?
8078	Siemens transformer – between outage trailers 1 & 2: Oil	OOE	417	Tank rupture	4	42	Leakage or spill will flow to yard drains, then CTP-3.	N/A	Monthly visual per Industrial Stormwater Inspection SCR000000	N/A
TOTAL			417							

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Standby Shutdown Facility										
Building	Location/Product	Type of Container	Total Storage Capacity (gallons)	Failure Mode	Low Release Rate (gal/hr)	High Release Rate (gal/hr)	Direction of Flow/Containment	Containment Inspected Before Draining?	PM/Inspection	Overfill Protection/ Loading Procedure?
8094	No. 2 Diesel Day Tank: Oil	BSC	550	Tank rupture	6	55	Leakage or spill will flow to floor drains, then to containment sump.	Procedure No. OP/2/A/1102/020 D SSF and Outside Rounds; Daily inspection	Procedure No. OP/2/A/1102/020 D SSF and Outside Rounds; Daily inspection	Overfill Protection; Loading Procedure No. OP/0/A/1600/003
8094	Underground storage tank: diesel	UST	50000	Tank rupture or spill while filling	500	5000	Leakage or spills occurring during filling will flow to concrete containment area, then containment sump. Tank leakage will flow to ground to groundwater.	Procedure No. OP/2/A/1102/020 D SSF and Outside Rounds; Daily inspection	Procedure No. OP/2/A/1102/020 D SSF and Outside Rounds; Daily inspection	Overfill Protection; Loading Procedure No. OP/0/A/1600/003
TOTAL			50550							

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Oil Pen										
Building	Location/Product	Type of Container	Total Storage Capacity (gallons)	Failure Mode	Low Release Rate (gal/hr)	High Release Rate (gal/hr)	Direction of Flow/Containment	Containment Inspected Before Draining?	PM/Inspection	Overfill Protection/ Loading Procedure?
8090	Contaminated oil: Approximately 2000 gals.(max container size = 1200 gals)	BSC	2000	Container rupture	5	55	Leakage or spill passing the wall flows into oil pen sump, then to yard drains and CPT-3. Currently located east of annex inside a sized secondary containment berm.	EWP 8.3	Monthly visual per Industrial Stormwater Inspection SCR000000	none
TOTAL			2000							

Contaminated Used Oil

Building	Location/Product	Type of Container	Total Storage Capacity (gallons)	Failure Mode	Low Release Rate (gal/hr)	High Release Rate (gal/hr)	Direction of Flow/Containment	Containment Inspected Before Draining?	PM/Inspection	Overfill Protection/ Loading Procedure?
80131	Contaminated Oil Tank	BSC	1000	tank rupture	10	100	temporary containment area	EWP 8.3	Procedure No. OP/2/A/1102/020 D (SSF and Outside Rounds); Daily inspection	Chemistry Procedure CP/0/B/4002/022
80131	Contaminated Oil Tank	BSC	1000	tank rupture	10	100	temporary containment area	EWP 8.3	Procedure No. OP/2/A/1102/020 D (SSF and Outside Rounds); Daily inspection	Chemistry Procedure CP/0/B/4002/022
80131	Contaminated Oil Tank	BSC	1000	tank rupture	10	100	temporary containment area	EWP 8.3	Procedure No. OP/2/A/1102/020 D (SSF and Outside Rounds); Daily inspection	Chemistry Procedure CP/0/B/4002/022
TOTAL			3000							

NOT CURRENTLY IN USE

Building	Location/Product	Type of Container	Storage Capacity	Failure Mode	Low Release Rate (gal/hr)	High Release Rate (gal/hr)	Direction of Flow/Containment	Containment Inspected Before Draining?	PM/Inspection	Overfill Protection/ Loading Procedure?
8089	Used Oil Tank	BSC	5000 gal	rupture	50	500	containment berm	*Not currently in operation.*		
8089	Used Oil Tank	BSC	5000 gal	rupture	50	500	containment berm	*Not currently in operation.*		
8089	Used Oil pump skid	BSC	280	rupture	3	30	containment berm	*Not currently in operation.*		
8089	Used oil liner 1	BSC	575	rupture	6	58	containment berm	*Not currently in operation.*		
8089	Used oil liner 2	BSC	575	rupture	6	58	containment berm	*Not currently in operation.*		
8089	Used oil liner 3	BSC	575	rupture	6	58	containment berm	*Not currently in operation.*		
8089	Used oil liner 4	BSC	575	rupture	6	58	containment berm	*Not currently in operation.*		

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Cafeteria - ONS										
Building	Location/Product	Type of Container	Total Storage Capacity (gallons)	Failure Mode	Low Release Rate (gal/hr)	High Release Rate (gal/hr)	Direction of Flow/Containment	Containment Inspected Before Draining?	PM/Inspection	Overfill Protection/ Loading Procedure?
8067	Outside Cafeteria: Used cooking oil	BSC	250	Container rupture	2.5	25	Leakage will flow to yard drain 15 feet away	N/A	Monthly visual per Industrial Stormwater Inspection SCR000000	None
TOTAL			250							

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Machine Shop										
Building	Location/Product	Type of Container	Total Storage Capacity (gallons)	Failure Mode	Low Release Rate (gal/hr)	High Release Rate (gal/hr)	Direction of Flow/Containment	Containment Inspected Before Draining?	PM/Inspection	Overfill Protection/ Loading Procedure?
8085	Various machines: motor oil and coolant – 50 to 100 gallons capacity maximum	OOE	250	Rupture of holding container	0.1	10	Leakage or spill retained in drip pan under each machine. No floor drains.	N/A	Visual inspection during use.	N/A
TOTAL			250							

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ONS Receiving Area										
Building	Location/Product	Type of Container	Total Storage Capacity (gallons)	Failure Mode	Low Release Rate (gal/hr)	High Release Rate (gal/hr)	Direction of Flow/Containment	Containment Inspected Before Draining?	PM/Inspection	Overfill Protection/ Loading Procedure?
8032	Loading dock (Various amounts of chemicals and oil. Maximum amount per container: 350 gal)	BSC, BSD	350	Container rupture	3.5	35	Leak or spill flows into drain and eventually into CTP-3.	N/A	Area is monitored by Nuclear Supply Chain	N/A
TOTAL			350							

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Oconee Office Building										
Building	Location/Product	Type of Container	Total Storage Capacity (gallons)	Failure Mode	Low Release Rate (gal/hr)	High Release Rate (gal/hr)	Direction of Flow/Containment	Containment Inspected Before Draining?	PM/Inspection	Overfill Protection/ Loading Procedure?
8007	Diesel generator: diesel fuel (existing OOB generator)	OOE	1000	Fuel line rupture	1	10	Leakage and spills contained in secondary containment basin.	EWP 8.3	Inspected monthly during scheduled generator check-out.	N/A
8007	Transformer (south of OOB): oil inside containment	OOE	315	Tank rupture	0.5	32	Leakage or spill flows to yard drain before going to CTP-3	N/A	Daily visual inspection by security. No pre-determined PM schedule.	N/A
8007	Transformer outside containment	OOE	283	Tank rupture	0.5	2	Leakage or spill flows to yard drain before going to CTP-3	N/A	Daily visual inspection by security. No pre-determined PM schedule.	N/A
8007	Oconee Office Building OOB / IT Generator 13298 : Diesel	OOE	2000	Tank rupture	20	200	Leakage or spill will flow to concrete containment area	EWP 8.3	Inspected monthly during scheduled generator check-out.	N/A
TOTAL			3598							

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44 KV Switchyard										
Building	Location/Product	Type of Container	Total Storage Capacity (gallons)	Failure Mode	Low Release Rate (gal/hr)	High Release Rate (gal/hr)	Direction of Flow/Containment	Containment Inspected Before Draining?	PM/Inspection	Overfill Protection / Loading Procedure?
44 KV	Transformer: Oil contained in 17 units (115 gals each)	OOE	1955	Tank rupture	1	12	Leakage or spill flow from graveled switchyard to yard drains to CTP-3.	N/A	Procedure No. OP/2/A/1102/020 D; Daily visual inspection by security and scheduled inspections dependent on reactor outages.	N/A
44 KV	Transformer: Oil	OOE	1830	Tank rupture	18	183	Leakage or spill flow from graveled switchyard to yard drains to CTP-3.	N/A	Procedure No. OP/2/A/1102/020 D; Daily visual inspection by security and scheduled inspections dependent on reactor outages.	N/A
44 KV	Transformer: Oil	OOE	1200	Tank rupture	12	120	Leakage or spill flows from graveled switchyard to yard drains to CTP-3.	N/A	Procedure No. OP/2/A/1102/020 D; Daily visual inspection by security and scheduled inspections dependent on reactor outages.	N/A
44 KV	Transformer (ME): Oil	OOE	385	Tank rupture	4	39	Leakage or spill flows from graveled switchyard to yard drains to CTP-3.	N/A	Procedure No. OP/2/A/1102/020 D; Daily visual inspection by security and scheduled inspections dependent on reactor outages.	N/A
44 KV	Transformer (SD): Oil	OOE	177	Tank rupture	2	18	Leakage or spill flows from graveled switchyard to yard drains to CTP-3.	N/A	Procedure No. OP/2/A/1102/020 D; Daily visual inspection by security and scheduled inspections dependent on reactor outages.	N/A
TOTAL			5547							

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CT-5 Switchyard										
Building	Location/Product	Type of Container	Total Storage Capacity (gallons)	Failure Mode	Low Release Rate (gal/hr)	High Release Rate (gal/hr)	Direction of Flow/Containment	Containment Inspected Before Draining?	PM/Inspection	Overfill Protection/ Loading Procedure?
CT-5	Transformers: Oil contained in 4 units (300 gals each)	OOE	1200	Tank rupture	3	30	Leakage or spill flows from graveled switchyard to yard drains to CTP-3.	N/A	Daily visual inspection by security and scheduled inspections dependent on reactor outages.	N/A
CT-5	Transformer: Oil	OOE	4734	Tank rupture	47	473	Leakage or spill flows from graveled switchyard to yard drains to CTP-3.	N/A	Daily visual inspection by security and scheduled inspections dependent on reactor outages.	N/A
CT-5	Circuit breaker (OCB101): Oil contained in 3 units (1740 gals)	OOE	5220	Tank rupture	17	174	Leakage or spill flows from graveled switchyard to yard drains to CTP-3.	N/A	Daily visual inspection by security and scheduled inspections dependent on reactor outages.	N/A
CT-5	Circuit breaker 1-2: Oil contained in 2 units (45 gals)	OOE	90	Breaker rupture	½	5	Leakage or spill flows from graveled switchyard to yard drains to CTP-3.	N/A	Daily visual inspection by security and scheduled inspections dependent on reactor outages.	N/A
CT-5	Bus regulators 1-3: Oil contained in 3 units (205 gals)	OOE	615	Regulator rupture	2	21	Leakage or spill flows from graveled switchyard to yard drains to CTP-3.	N/A	Daily visual inspection by security and scheduled inspections dependent on reactor outages.	N/A
CT-5	Transformers: Oil contained in 3 units (244 gals each)	OOE	732	Tank rupture	2	25	Leakage or spill flows from graveled switchyard to yard drains to CTP-3.	N/A	Daily visual inspection by security and scheduled inspections dependent on reactor outages.	N/A

CT-5 Switchyard										
Building	Location/Product	Type of Container	Total Storage Capacity (gallons)	Failure Mode	Low Release Rate (gal/hr)	High Release Rate (gal/hr)	Direction of Flow/Containment	Containment Inspected Before Draining?	PM/Inspection	Overfill Protection/ Loading Procedure?
CT-5	Transformers: Oil contained in 6 units (21 gals each)	OOE	126	Tank rupture	1/16	2	Leakage or spill flows from graveled switchyard to yard drains to CTP-3.	N/A	Daily visual inspection by security and scheduled inspections dependent on reactor outages.	N/A
CT-5	4T Transformer: Oil	OOE	9240	Tank rupture	92	924	Leakage or spill flows from graveled switchyard to yard drains to CTP-3.	N/A	Daily visual inspection by security and scheduled inspections dependent on reactor outages.	N/A
CT-5	5T Transformer: Oil	OOE	1855	Tank rupture	19	186	Leakage or spill flows from graveled switchyard to yard drains to CTP-3.	N/A	Daily visual inspection by security and scheduled inspections dependent on reactor outages.	N/A
CT-5	Transformer: Oil contained in 2 units (139 gals each)	OOE	278	Tank rupture	1	14	Leakage or spill flows from graveled switchyard to yard drains to CTP-3.	N/A	Daily visual inspection by security and scheduled inspections dependent on reactor outages.	N/A
CT-5	Transformer STA: Oil	OOE	278	Tank rupture	3	28	Leakage or spill flows from graveled switchyard to yard drains to CTP-3.	N/A	Daily visual inspection by security and scheduled inspections dependent on reactor outages.	N/A
CT-5	Transformer STB: Oil	OOE	278	Tank rupture	3	28	Leakage or spill flows from graveled switchyard to yard drains to CTP-3.	N/A	Daily visual inspection by security and scheduled inspections dependent on reactor outages.	N/A

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CT-5 Switchyard										
Building	Location/Product	Type of Container	Total Storage Capacity (gallons)	Failure Mode	Low Release Rate (gal/hr)	High Release Rate (gal/hr)	Direction of Flow/Containment	Containment Inspected Before Draining?	PM/Inspection	Overfill Protection/ Loading Procedure?
CT-5	HOW transformer: oil	OOE	126	Tank rupture	1	13	Leakage or spill flows from graveled switchyard to yard drains to CTP-3.	N/A	Daily visual inspection by security and scheduled inspections dependent on reactor outages.	N/A
TOTAL			24772							

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230 KV Switchyard										
Building	Location/Product	Type of Container	Total Storage Capacity (gallons)	Failure Mode	Low Release Rate (gal/hr)	High Release Rate (gal/hr)	Direction of Flow/Containment	Containment Inspected Before Draining?	PM/Inspection	Overfill Protection/ Loading Procedure?
230 KV (A13)	Autobank transformers: Oil contained in 4 units (15300 gals each)	OOE	61200	Tank rupture	153	1530	Leakage or spill flows from graveled switchyard to yard drains to CTP-3.	N/A	Procedure No. OP/2/A/1102/020 D; Daily visual inspection by security and scheduled inspections dependent on reactor outages.	N/A
230 KV (A13)	Circuit Breaker 40: Oil 2	OOE	65	Tank rupture	2	27	Leakage or spill flows from graveled switchyard to yard drains to CTP-3.	N/A	Procedure No. OP/2/A/1102/020 D; Daily visual inspection by security and scheduled inspections dependent on reactor outages.	N/A
TOTAL			61265							

525 KY Switchyard										
Building	Location/Product	Type of Container	Total Storage Capacity (gallons)	Failure Mode	Low Release Rate (gal/hr)	High Release Rate (gal/hr)	Direction of Flow/Containment	Containment Inspected Before Draining?	PM/Inspection	Overfill Protection/ Loading Procedure?
525 KY (A09)	Transformer CT4: Oil	OOE	2810	Tank rupture	28	281	Leakage or spill flows from graveled switchyard to yard drains to CTP-3.	N/A	Procedure No. OP/2/A/1102/020 D; Daily visual inspection by security and scheduled inspections dependent on reactor outages.	N/A
525 KY (A09)	Transformer CT123: Oil	OOE	13800	Tank rupture	138	1380	Leakage or spill flows from graveled switchyard to yard drains to CTP-3.	N/A	Procedure No. OP/2/A/1102/020 D; Daily visual inspection by security and scheduled inspections dependent on reactor outages.	N/A
525 KY (A09)	Transformer, south end: Oil contained in 7 units (9215 gals each)	OOE	64505	Tank rupture	92	922	Leakage or spills flow from graveled switchyard to yard drains to CTP-3.	N/A	Procedure No. OP/2/A/1102/020 D; Daily visual inspection by security and scheduled inspections dependent on reactor outages.	N/A
525 KY (A09)	Transformer: Oil contained in 24 units (550 gals each)	OOE	13200	Tank rupture	5	55	Leakage or spill flows from graveled switchyard to yard drains to CTP-3.	N/A	Procedure No. OP/2/A/1102/020 D; Daily visual inspection by security and scheduled inspections dependent on reactor outages.	N/A

525 KY Switchyard										
Building	Location/Product	Type of Container	Total Storage Capacity (gallons)	Failure Mode	Low Release Rate (gal/hr)	High Release Rate (gal/hr)	Direction of Flow/Containment	Containment Inspected Before Draining?	PM/Inspection	Overfill Protection/ Loading Procedure?
525 KY (A09)	Transformer: Oil contained in 2 units (177 gals each)	OOE	354	Tank rupture	2	18	Leakage or spill flows from graveled switchyard to yard drains to CTP-3.	N/A	Procedure No. OP/2/A/1102/020 D; Daily visual inspection by security and scheduled inspections dependent on reactor outages.	N/A
525 KY (A09)	Transformer STC: Oil	OOE	354	Tank rupture	4	35	Leakage or spill flows from graveled switchyard to yard drains to CTP-3.	N/A	Procedure No. OP/2/A/1102/020 D; Daily visual inspection by security and scheduled inspections dependent on reactor outages.	N/A
525 KY (A09)	Transformer STD: Oil	OOE	354	Tank rupture	4	35	Leakage or spill flows from graveled switchyard to yard drains to CTP-3.	N/A	Procedure No. OP/2/A/1102/020 D; Daily visual inspection by security and scheduled inspections dependent on reactor outages.	N/A
526 KY (A09)	Transformer STD: Oil- X Phase Asbury Reactor	OOE	6398	Tank rupture	4	35	Leakage or spill flows from graveled switchyard to yard drains to CTP-3.	N/A	Procedure No. OP/2/A/1102/020 D; Daily visual inspection by security and scheduled inspections dependent on reactor outages.	N/A
TOTAL			101775							

Oconee Nuclear Station
SPCC Materials Inventory
April 2015

Intake Structure										
Building	Location/Product	Type of Container	Total Storage Capacity (gallons)	Failure Mode	Low Release Rate (gal/hr)	High Release Rate (gal/hr)	Direction of Flow/Containment	Containment Inspected Before Draining?	PM/Inspection	Overfill Protection/ Loading Procedure?
Intake (A04)	Cooling water pump: Oil contained in 12 units (55 gals each)	OOE	660	Spill or container rupture	1/5	55	Leakage or spill flows to concrete structure with no containment before going directly into Lake Keowee.	N/A	Procedure No. OP/2/A/1102/020 D; Daily visual inspection by security and monthly PM schedule.	N/A
TOTAL			660							

Oconee Nuclear Station
SPCC Materials Inventory
April 2015

Above Ground Storage Tanks										
Building	Location/Product	Type of Container	Total Storage Capacity (gallons)	Failure Mode	Low Release Rate (gal/hr)	High Release Rate (gal/hr)	Direction of Flow/Containment	Containment Inspected Before Draining?	PM/Inspection	Overfill Protection/ Loading Procedure?
Near 8064	Auxiliary boiler fuel tank and loading area: diesel fuel	BSC	45000	Tank rupture	450	4500	Leakage or spill is retained in concrete containment area.	YES	Daily per OP/2/A/1102/020 D SSF and Outside Rounds	Fuel Unloading Procedure No. OP/0/A/1106 /004, Enclosure 4.11
Near 8065	Auxiliary boiler fuel tank and loading area: diesel fuel	BSC	30000	Tank rupture	300	3000	Leakage or spill is retained in concrete containment area.	YES	Daily per OP/2/A/1102/020 D SSF and Outside Rounds	Fuel Unloading Procedure No. OP/0/A/1106 /004, Enclosure 4.11
TOTAL			75000							

Oconee Nuclear Station
SPCC Materials Inventory
April 2015

Warehouse No. 4										
Building	Location/Product	Type of Container	Total Storage Capacity (gallons)	Failure Mode	Low Release Rate (gal/hr)	High Release Rate (gal/hr)	Direction of Flow/Containment	Containment Inspected Before Draining?	PM/Inspection	Overfill Protection/ Loading Procedure?
8093	Transformer (NW of building): oil in 2 units	OOE	150	Tank rupture	1.5	15	Leakage or spills flow to asphalt to yard drains to CTP-3.	N/A	Monthly visual per Industrial Stormwater Inspection SCR000000	N/A
TOTAL			150							

Oconee Nuclear Station
SPCC Materials Inventory
April 2015

Maintenance Training Facility										
Building	Location/Product	Type of Container	Total Storage Capacity (gallons)	Failure Mode	Low Release Rate (gal/hr)	High Release Rate (gal/hr)	Direction of Flow/Containment	Containment Inspected Before Draining?	PM/Inspection	Overfill Protection/ Loading Procedure?
8051	GE transformer: Oil	OOE	345	Tank rupture	4	35	Leakage or spill will flow into yard drain to river.	N/A	Monthly visual per Industrial Stormwater Inspection SCR000000	N/A
TOTAL			345							

Oconee Nuclear Station
SPCC Materials Inventory
April 2015

Warehouse No. 5										
Building	Location/Product	Type of Container	Total Storage Capacity (gallons)	Failure Mode	Low Release Rate (gal/hr)	High Release Rate (gal/hr)	Direction of Flow/Containment	Containment Inspected Before Draining?	PM/Inspection	Overfill Protection/ Loading Procedure?
8055	Kerosene storage tank (mobile)	BSC	500	Tank rupture	10	100	Leakage or spills flow to concrete containment area which has open drains to CTP-3.	EWP 8.3	Monthly visual per Industrial Stormwater Inspection SCR000000	none
8055	Kerosene storage tank (above ground)	BSC	250	Tank rupture	10	100	Leakage or spill will flow to containment skid.	EWP 8.3	Monthly visual per Industrial Stormwater Inspection SCR000000	none
TOTAL			750							

Keowee Hydro Station										
Building	Location/Product	Type of Container	Total Storage Capacity (gallons)	Failure Mode	Low Release Rate (gal/hr)	High Release Rate (gal/hr)	Direction of Flow/Containment	Containment Inspected Before Draining?	PM/Inspection	Overfill Protection/ Loading Procedure?
8592	Two tanks with a capacity of 7000 gallons for a total of 14,000 gallons: Mobile DTE 10 Exel 68 (MSDS 10512) (7000 gals each)	BSC	14000	Tank rupture	70	700	Leakage or spill flows to floor drains to un-watering sump. Sump pumps will be turned off should spill occur.	N/A	Procedure No. OP/0/A/2000/043 (shift turnover and rounds); Quarterly spill control material inspection.	Loading Procedure No. OP/0/A/2000/057 – Enclosure 4.21
8592	Unit 1 generator thrust bearing oil pot: Oil	OOE	1025	Tank rupture	10	102	Leakage or spill flows to wheel pit to tailrace. Sump pumps will be turned off should spill occur.	N/A	Procedure No. OP/0/A/2000/043 (shift turnover and rounds); Low level alarms in control room. Quarterly spill control material inspection.	N/A
8592	Unit 1 governor: Oil	OOE	2220	Tank rupture	22	222	Leakage or spill flow to wheel pit to oil-water separator. Sump pumps will be turned off should spill occur.	N/A	Procedure No. OP/0/A/2000/043 (shift turnover and rounds); Low level alarms in control room. Quarterly spill control material inspection.	N/A
8592	Unit 1 turbine bearing oil pot: Oil	OOE	110	Tank rupture	1	11	Leakage or spill flows to station sump to tailrace. Sump pumps will be turned off should spill occur.	N/A	Procedure No. OP/0/A/2000/043 (shift turnover and rounds); Low level alarms in control room. Quarterly spill control material inspection.	N/A
8592	Main step-up transformer: Oil	OOE	17260	Tank rupture	176	1762	Leakage or spill flows to 1070 cu. Ft. rocked containment area.	N/A	Procedure No. OP/0/A/2000/043 (shift turnover and rounds); Low level alarms in control room. Quarterly spill control material inspection.	N/A

Oconee Nuclear Station
SPCC Materials Inventory
April 2015

Keowee Hydro Station										
Building	Location/Product	Type of Container	Total Storage Capacity (gallons)	Failure Mode	Low Release Rate (gal/hr)	High Release Rate (gal/hr)	Direction of Flow/Containment	Containment Inspected Before Draining?	PM/Inspection	Overfill Protection/ Loading Procedure?
8592	Unit 2 turbine bearing oil pot: oil	OOE	110	Tank rupture	1	11	Leakage or spill flows to wheel pit to tailrace. Sump pumps will be turned off should spill occur.	N/A	Procedure No. OP/0/A/2000/043 (shift turnover and rounds); Low level alarms in control room. Quarterly spill control material inspection.	N/A
8592	Unit 2 thrust bearing oil pot: oil	OOE	1025	Tank rupture	10	103	Leakage or spill flows to wheel pit to tailrace. Sump pumps will be turned off should spill occur.	N/A	Procedure No. OP/0/A/2000/043 (shift turnover and rounds); Low level alarms in control room. Quarterly spill control material inspection.	N/A
8592	Unit 2 governor: oil	OOE	2220	Tank rupture	22	222	Leakage or spill flows to station sump to oil-water separator. Sump pumps will be turned off should spill occur.	N/A	Procedure No. OP/0/A/2000/043 (shift turnover and rounds); Low level alarms in control room. Quarterly spill control material inspection.	N/A
8592	Hoist and crane gearboxes: Oil contained in 8 units (72 gals each)	OOE	576	Gearbox rupture	1	7	Main powerhouse crane leakage or spill flows to station sump to oil-water separator. Sump pumps will be turned off should spill occur. Draft tube hoist spill will flow to tailrace. Crankcase spill at intake will flow to Lake Keowee.	N/A	Weekly shift equipment inspection. Quarterly spill control material inspection.	N/A
TOTAL			38546							

Oconee Transportation Facility										
Building	Location/Product	Type of Container	Total Storage Capacity (gallons)	Failure Mode	Low Release Rate (gal/hr)	High Release Rate (gal/hr)	Direction of Flow/Containment	Containment Inspected Before Draining?	PM/Inspection	Overfill Protection/ Loading Procedure?
8049	UST loading area: automatic transmission fluid (J-26)	UST	1000	Tank overfill or tank leak	10	100	Leakage or spill goes into ground and yard drains. A yard drain which discharges into wastewater conveyance area is protected with a spill mat during unloading.	N/A	Tank is set up on continuous monitor for leak detection.	Environmental Work Practice 8.7 Underground Storage Tanks
8049	UST loading area: No. 2 diesel fuel	UST	12000	Tank overfill or tank leak	120	1200	Leakage spill goes into ground and yard drains. A yard drain which discharges into wastewater conveyance area is protected with a spill mat during unloading.	N/A	Tank is set up on continuous monitor for leak detection.	Environmental Work Practice 8.7 Underground Storage Tanks
8049	UST loading area: hydraulic oil	UST	1000	Tank overfill or tank leak	10	100	Leakage spill goes into ground and yard drains. A yard drain which discharges into wastewater conveyance area is protected with a spill mat during unloading.	N/A	Tank is set up on continuous monitor for leak detection.	Environmental Work Practice 8.7 Underground Storage Tanks
8049	UST loading area: motor oil	UST	2000	Tank overfill or tank leak	20	200	Leakage spill goes into ground and yard drains. A yard drain which discharges into wastewater conveyance area is protected with a spill mat during unloading.	N/A	Tank is set up on continuous monitor for leak detection.	Environmental Work Practice 8.7 Underground Storage Tanks
8049	UST loading area: unleaded gasoline	UST	12000	Tank overfill or tank leak	120	1200	Leakage spill goes into ground and yard drains. A yard drain which discharges into wastewater conveyance area is protected with a spill mat during unloading.	N/A	Tank is set up on continuous monitor for leak detection.	Environmental Work Practice 8.7 Underground Storage Tanks
8049	UST loading/unloading area: waste oil	UST	1000	Tank overfill or tank leak	10	100	Leakage spill goes into ground and yard drains. A yard drain which discharges into wastewater conveyance area is protected with a spill mat during unloading.	N/A	Tank is set up on continuous monitor for leak detection.	Environmental Work Practice 8.7 Underground Storage Tanks

Oconee Transportation Facility										
Building	Location/Product	Type of Container	Total Storage Capacity (gallons)	Failure Mode	Low Release Rate (gal/hr)	High Release Rate (gal/hr)	Direction of Flow/Containment	Containment Inspected Before Draining?	PM/Inspection	Overfill Protection/ Loading Procedure?
8049	Garage work area: miscellaneous petroleum/cleaning products (200 gals. in various containers)	BSC, BSD	200	Container rupture or spill	16-Jan	5	Leakage or spill goes to floor drains to oil-water separator.	N/A	Daily visual inspection (not required)	N/A
8049	Air compressor room: oil and petroleum products (500 to 900 gals. in various containers)	BSC, BSD	900	Container rupture or spill	5	55	Leakage or spill goes to floor. Drains covered during transfers.	N/A	Daily visual inspection (not required)	N/A
8049	Diesel vehicle fueling station: diesel fuel	OTP	12000	Vehicle tank overfill	12	120	Leakage or spill flows to concrete pad to asphalt to yard drain to wastewater conveyance. Drains covered during deliveries. Pump equipped with breakaway nozzles.	N/A	Daily visual inspection.	N/A
8049	Gas vehicle fueling station: unleaded gasoline	OTP	12000	Vehicle tank overfill	12	120	Leakage or spill flows to concrete pad to asphalt to yard drain to wastewater conveyance. Drains covered during deliveries. Pump equipped with breakaway nozzles.	N/A	Daily visual inspection.	N/A
8049	Wash bay area: used oil	BSD	55	Container rupture or spill	1	6	Leakage or spill will flow to wash bay sump.	N/A	Quarterly Chemical Inventory Inspection	N/A
8049	Wash bay area: flammable storage cabinet premix oil/gas	BSD	55	Container rupture or spill	1	6	Leakage or spill will flow to wash bay sump.	N/A	Quarterly Chemical Inventory Inspection	N/A
8049	Mobile fuel truck - two tanks: 1700 gallons of diesel and 600 gallons of gasoline	MOC	2300	Tank rupture	10	100	Leakage or spill will go to paved area and then to wastewater conveyance area.	N/A	Daily visual inspection.	Yes
TOTAL			27510							

Oconee Nuclear Station
SPCC Materials Inventory
April 2015

Oconee Complex										
Building	Location/Product	Type of Container	Total Storage Capacity (gallons)	Failure Mode	Low Release Rate (gal/hr)	High Release Rate (gal/hr)	Direction of Flow/Containment	Containment Inspected Before Draining?	PM/Inspection	Overfill Protection/ Loading Procedure?
8032	UST: oil and petroleum products (used oil)	UST	550	Tank overfill or tank leak	6	55	Leakage or spill flows to ground.	N/A	Environmental Work Practice 8.7 Underground Storage Tanks	Model Work Order No. 236549
8032	Outside cafeteria near janitor storage: used cooking oil	BSC	250	Container rupture	2.5	25	Leakage or spill goes to yard drain and then to wastewater conveyance area.	N/A	Monthly visual per Industrial Stormwater Inspection SCR000000	none
8032	Transformer (south end of building): oil	OOE	490	Tank rupture	5	49	Leakage or spill flows to concrete pad then to yard drain.	N/A	Monthly visual per Industrial Stormwater Inspection SCR000000	N/A
TOTAL			1290							

Oconee Nuclear Station
SPCC Materials Inventory
April 2015

World of Energy										
Building	Location/Product	Type of Container	Total Storage Capacity (gallons)	Failure Mode	Low Release Rate (gal/hr)	High Release Rate (gal/hr)	Direction of Flow/Containment	Containment Inspected Before Draining?	PM/Inspection	Overfill Protection/ Loading Procedure?
8003	Transformer (south or employee parking lot): oil	OOE	218	Tank rupture	2	21	No containment. Leakage or spill flows to ground, then to yard drain.	N/A	Monthly visual per Industrial Stormwater Inspection SCR000000	N/A
TOTAL			218							

Oconee Nuclear Station
SPCC Materials Inventory
April 2015

L-1 Yard										
Building	Location/Product	Type of Container	Total Storage Capacity (gallons)	Failure Mode	Low Release Rate (gal/hr)	High Release Rate (gal/hr)	Direction of Flow/Containment	Containment Inspected Before Draining?	PM/Inspection	Overfill Protection?
8036	Transformer: oil	OOE	186	Tank rupture	2	19	Leakage or spill will flow to ground to yard drains to wastewater conveyance.	N/A	Monthly visual per Industrial Stormwater Inspection SCR000000	N/A

Waste Disposal Facilities – L1 Yard										
Building	Location/Product	Type of Container	Total Storage Capacity (gallons)	Failure Mode	Low Release Rate (gal/hr)	High Release Rate (gal/hr)	Direction of Flow/Containment	Containment Inspected Before Draining?	PM/Inspection	Overfill Protection/ Loading Procedure?
8034	L1 Yard / Five (5) totes: used oil, (250 gals each)	BSC	1250	Tank rupture	13	125	Leakage or spill will be contained in the buildings 8 inch berm.	EWP 8.3	Weekly EWP 2.5	none
8034	L1 Yard / one (1) tote: transformer oil	BSC	250	Tank rupture	3	25	Leakage or spill will be contained in the buildings 8 inch berm.	EWP 8.4	Weekly EWP 2.5	none
8034	L1 Yard / one (1) tote: transformer oil	BSC	250	Tank rupture	3	25	Leakage or spill will be contained in the buildings 8 inch berm.	EWP 8.5	Weekly EWP 2.5	none
TOTAL			1936							

Oconee Nuclear Station
SPCC Materials Inventory
April 2015

Oconee Technical Training Center										
Building	Location/Product	Type of Container	Total Storage Capacity (gallons)	Failure Mode	Low Release Rate (gal/hr)	High Release Rate (gal/hr)	Direction of Flow/Containment	Containment Inspected Before Draining?	PM/Inspection	Overfill Protection/ Loading Procedure?
80120	Transformer (north of building): oil	OOE	487	Tank rupture	5	49	No containment. Leakage or spill flows to concrete pad to ground.	N/A	Monthly visual per Industrial Stormwater Inspection SCR000000	N/A
TOTAL			487							

Oconee Nuclear Station
SPCC Materials Inventory
April 2015

B5B Pump										
Building	Location/Product	Type of Container	Total Storage Capacity (gallons)	Failure Mode	Low Release Rate (gal/hr)	High Release Rate (gal/hr)	Direction of Flow/Containment	Containment Inspected Before Draining?	PM/Inspection	Overfill Protection/ Loading Procedure?
80126	B5B Pump/Diesel	OOE	275	Tank rupture	10	20	Leakage or spill will be contained within the buildings 6 inch berm. Outside building spill will flow to the intake canal.	N/A	Monthly visual per Industrial Stormwater Inspection SCR000000	N/A
TOTAL			275							

APPENDIX D

TANKER TRUCK LOADING AND UNLOADING PROCEDURES

TANKER TRUCK LOADING/UNLOADING

These tank truck loading/unloading operations guidelines are in accordance with Department of Transportation regulations as published in 49 CFR Part 177, Subpart B, and shall be followed at this facility.

General guidelines:

A. **NO IGNITION SOURCE** (smoking or open flame) is allowed in the area of loading/unloading.

B. A qualified individual shall **ATTEND THE LOADING/UNLOADING OPERATION** at all times and shall remain within 25 feet of the operation. (The qualified individual shall be made aware of the facility's SPCC Plan and shall be trained on appropriate actions in the event of a spill.)

C. The oil truck/tanker and all connections shall be over an area designed to properly direct a spill to appropriate **SECONDARY CONTAINMENT** as outlined in the facility SPCC Plan.

Sequential guidelines:

1. Prior to starting and during oil transfer operation, a physical barrier or wheel chocking of the tanker shall be in place to prevent vehicle departure.
2. Prior to starting transfer, assure proper electrical grounding of the tanks. Grounding shall be in place during entire oil transfer operation.
3. Assure all fuel oil connections are secure before starting transfer.
4. Before starting transfer, the level in the facility tank or container shall be measured to assure adequate capacity is available to contain delivery volume.
5. Upon completion of transfer, disconnect hoses and check all outlets on the truck (include access doors on top of the truck and the lowermost drain on the truck).
6. Assure that all facility valves are closed and secured.
7. Disconnect electrical grounds.
8. Remove wheel chocks or other physical barrier and depart.

In case of spill or other emergency, immediately contact 4911.

APPENDIX E

FACILITY SPCC PROCEDURE REFERENCES

FACILITY SPCC PROCEDURE REFERENCES

SPCC ITEM	PROCEDURE REFERENCE
Spill Response Equipment Inventory	Procedure No. PT/0/B/0250/045 (A list of release response materials and the locations of these materials is provided as part of the Quarterly Inspection of Hazardous Materials Response Team Equipment.)
Oil Spill Notification Form (Reportable Spill Report Form)	Oconee Spill Response Procedure RP/0/A/1000/17

APPENDIX F

FACILITY CHANGES REQUIRED FOR SPCC COMPLIANCE

Facility Changes Required for SPCC Compliance

Based upon the SPCC site review conducted in November of 2014, the following changes are identified for the Oconee Nuclear Station:

1. The connection for loading/unloading diesel fuel into the 30,000 gallon and 45,000 gallon tanks is outside the secondary containment area.

Required Change: *Provide containment, such as a concrete/asphalt berm or curb, to contain any leaks or spills from unloading diesel fuel.*

2. Sections 112.8(c)(8) and 112.12(c)(8) require that each bulk storage container installation is engineered to avoid discharges during filling activities. While a site gauge, an alarm, or cutoff device may not be appropriate for smaller containers/tanks, the facility is required to have a filling procedure to ensure a discharge is prevented. The containers without overfill prevention are noted in Appendix C.

Required Change: *Develop a filling procedure for small bulk containers.*

Form 703-2. Procedure Change Process Record
(R10-14)

Duke Energy

PROCEDURE CHANGE PROCESS RECORD

(1) ID No.

Revision No. 2015-005 Change No.
Permanent/Restricted to

(2) Station: OCONEE NUCLEAR STATION

(3) Procedure Title: ONS Emergency Plan

(4) Section(s) of Procedure Affected: Appendix 8, 1-39 and Enclosures 1 & 2.

(5) Requires NSD 228 Applicability Determination?

☒ Yes (Procedure change with major changes) - Attach NSD 228 documentation.
☐ No (Procedure change with minor changes)

6/22/15

(6) Description of Change: *(Attach additional pages, if necessary.)* Please see attached Change Matrix

(7) Reason for Change:
Appendix 8 of the Oconee Emergency was revised to conform to fleet standards.

(8) Prepared By* Don M Tucker (Signature) Don M Tucker Date 06/18/2015

(9) Reviewed By* Dennis A Reed (QR)(KI) Date 6/22/15

Cross-Disciplinary Review By* _____ (QR)(KI) NA Date 6/22/15

Reactivity Mgmt. Review By* _____ (QR) NA Date 6/22/15

Mgmt. Involvement Review By* _____ (Ops. Supt.) NA Date 6/22/15

(10) Additional Reviews

Reviewed By* _____ Date _____

Reviewed By* _____ Date _____

(11) Approved By* Patrick M Sullest Date 6/23/15

* *Printed Name and Signature*

Form 703-1. Procedure Process Record (PPR)

Duke Energy

PROCEDURE PROCESS RECORD

(1) ID No.

Revision No. 2015-005

PREPARATION

(2) Station OCONEE NUCLEAR STATION

(3) Procedure Title ONS Emergency Plan, App. 8

(4) Prepared By* Don M Tucker (Signature) Don M Tucker Date 06/18/2015

(5) Requires NSD 228 Applicability Determination? Natalie Harness 6/19/15

☒ Yes (New procedure or revision with major changes) - Attach NSD 228 documentation.

☒ No (Revision with minor changes)

6/22/15 (6) Reviewed By* Donald A. [illegible] (QR)(KI) Date 6/22/15

Cross-Disciplinary Review By* (QR)(KI) NA Date 6/22/15

Reactivity Mgmt Review By* (QR) NA Date 6/22/15

Mgmt Involvement Review By* (Ops. Supt.) NA Date 6/22/15

(7) Additional Reviews

Reviewed By* Date

Reviewed By* Date

(8) Approved By* Randall M Stokes Date 6/23/15

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)*

* *Printed Name and Signature*

Procedure Title:

SUMMARY OF CHANGES: (DESCRIPTION AND REASON)

General Changes

Appendix 8 to the Oconee Nuclear Station Emergency Plan, Spill Prevention Containment and Countermeasure Plan was revised to reflect fleet format and to add sections required for compliance with 40CFR-112. This change continues to comply with 10CFR50.47(b) planning standards and NRC requirements, as described in 10CFR50 Appendix E.

The Oconee Nuclear Station Emergency Plan is being revised to reflect this revision. The changes are being evaluated in accordance with 10CFR50.54(q).

PCR Numbers Incorporated

N/A

Enclosure

Attachment to 50.54q

Revision to Appendix 8 of ONS Emergency Plan

#	Page /Section	Current	Proposed Change	Reason
1.	Title Page	Revision date of October 2009	Revision date of April 2015	Revision
2.	Page 4	Page 4 was signature page	Page i is now signature page	Fleet standardization: editorial
3.	Page 4	Approval signature was that of Dave Baxter	Approval signature is now that of Scott Batson	Change of personnel: editorial
4.	Page 5	Page 5 was Engineering signature page	Page ii is now Engineering signature page	Fleet standardization: editorial
5.	Page 5	Engineering approval signature was that of John Estridge	Engineering approval signature is now that of Anna Franklin	Change of personnel: editorial
6.	Page 4	Page 4 designated responsible individual	Designated responsible individual now given on page iii	Fleet standardization: editorial
7.	Page 7	Approval signature was that of Anthony Garland	Approval signature is now that of John Estridge (page iii)	Change of personnel: editorial
8.	Page 2	Table of contents on page 2	Table of contents on pages iv and v	Fleet standardization: editorial
9.	Page 8	Introduction on page 8	Introduction (Section 1.0)on page 2	Fleet standardization: editorial
10.	Page 8	Facility Information	Now included in Section 2.0 Facility Information and Description on page 3	Fleet standardization: editorial
11.	Page 32	Oil Sources	Now included in Section 3.0, Oil Sources and Secondary Containment (page 5)	Fleet standardization: editorial
12.	Page 13	Miscellaneous storage tanks	Now in Section 4. Oil Filled Operations Equipment (starting page 6)	Fleet standardization: editorial
13.	Page 14	Storage Containers	Now in Section 4.2, Bulk Storage Containers (starting page 8)	Fleet standardization: editorial
14.	Page 24	Response Guidelines (procedure reference)	Now in Section 5.0, Release Response Guidelines (page 12)	Fleet standardization: editorial
15.	Page 14	Facility Tank Car Loading/Unloading Rack	Now in Section 6.0, Loading/Unloading Operations (page 14)	Fleet standardization: editorial

16.	Page 12	Information pertaining to Site Drainage	Now found in Section 8.0 (page 17)	Fleet standardization: editorial
17.	Page 11	Information pertaining to engineered and administrative controls	Now in Section 9.0, Engineering and Administrative Controls (page 21)	Fleet standardization: editorial
18.	Page 24	Information pertaining to release response equipment	Now in Section 9.2.3, Release Response Equipment (same procedure is references)(page 23)	Fleet standardization: editorial
19.	Pages 19, 24	Information pertaining to training of personnel	Now in Section 10.0, Personnel /Training (page	Fleet standardization: editorial
20.	Page 16	Security section	Now in Section 11.0, Security Measures (page 30)	Fleet standardization: editorial
21.	Page 18	Record Keeping	Now in Section 12.0, Record Keeping (page 30)	Fleet standardization: editorial
22.	N/A	N/A	Figure 1, Site Location Map	New
23.	Page 33	Site Plan and Petroleum Source Locations	Drawing upgraded and named Figure 2	Fleet standardization: editorial
24.	Page 6	Certification of Substantial Harm	Relocated to Appendix A	Fleet standardization: editorial
25.	Part III item K	Emergency Contact List	Relocated to Appendix B	Fleet standardization: editorial
26.	Part III, item E	Potential Oil Sources (Spill Risk Inventory and Summary)	Relocated to Appendix C	Fleet standardization: editorial
27.	Page 14	Facility Tank Car & Tank Loading/Unloading Rack	Relocated to Appendix D	Fleet standardization: editorial
28.	Part III item J	Facility SPCC procedure references	Relocated to Appendix E	Fleet standardization: editorial
29.	N/A	N/A	Facility Changes Required for SPCC Compliance	New
30.	Title Page	Did not include Keowee	Includes Keowee in SPCC	Clarifies that plan in fact does cover Keowee.
31.	Page 22	Information on piping	Now in section 7.0, added Above Ground, underground Piping and Transfer Operations (page 16)	New
32.	N/A	N/A	Table 13-1, SPCC Plan Record of Review	New
33.	N/A	N/A	Section 14.0, Conformance With Other Regulations	New

10 CFR 50.54(q) Screening Evaluation Form

Screening and Evaluation Number	Applicable Sites	
EREG #:_____	BNP	☐
	CNS	☐
	CR3	☐
	HNP	☐
5AD #:_____	MNS	☐
	ONS	X
	RNP	☐
	GO	☐

Document and Revision	Emergency Plan Revision 2015-05

Part I. Description of Activity Being Reviewed (event or action, or series of actions that may result in a change to the emergency plan or affect the implementation of the emergency plan):
Appendix 8 of the Oconee Nuclear Station Emergency Plan, ONS Spill Prevention, Control and Countermeasure Plan (SPCC Plan), is being revised to standardize to fleet standards.

Part II. Activity Previously Reviewed?	Yes ☐	No X
Is this activity Fully bounded by an NRC approved 10 CFR 50.90 submittal or Alert and Notification System Design Report? If yes, identify bounding source document number or approval reference and ensure the basis for concluding the source document fully bounds the proposed change is documented below: Justification: NA	10 CFR 50.54(q) Effectiveness Evaluation is not required. Enter justification below and complete Attachment 4, Part V.	Continue to Attachment 4 , 10 CFR 50.54(q) Screening Evaluation Form, Part III

Bounding document attached (optional)	☐

10 CFR 50.54(q) Screening Evaluation Form

Part III. Editorial Change	Yes	X	No	☐
Is this activity an editorial or typographical change only, such as formatting, paragraph numbering, spelling, or punctuation that does not change intent? Justification: The revision is a re-write to conform to fleet standards. A list of changes was provided by the author was reviewed (see attachment). This Screening will address those changes that meet the definition of 'editorial'. Changes that are not editorial in nature will be addressed in a separate Screening. Note that the SPCC Plan ensures compliance with 40CFR112, an Environmental Protection Agency regulation, and is not related to and does not ensure compliance with NUREG 0654, 10CFR47, 10CFR50 or FEMA-REP-10.	10 CFR 50.54(q) Effectiveness Evaluation is not required. Enter justification and complete Attachment 4, Part V & VI.		Continue to Attachment 4, Part IV and address non editorial changes	

Part IV. Emergency Planning Element and Function Screen (Reference Attachment 1, Considerations for Addressing Screening Criteria)

Does this activity involve any of the following, including program elements from NUREG-0654/FEMA REP-1 Section ? If answer is yes, then check box.

1	10 CFR 50.47(b)(1) Assignment of Responsibility (Organization Control)	
1a	Responsibility for emergency response is assigned.	☐
1b	The response organization has the staff to respond and to augment staff on a continuing basis (24-7 staffing) in accordance with the emergency plan.	☐
2	10 CFR 50.47(b)(2) Onsite Emergency Organization	
2a	Process ensures that onshift emergency response responsibilities are staffed and assigned	☐
2b	The process for timely augmentation of onshift staff is established and maintained.	☐
3	10 CFR 50.47(b)(3) Emergency Response Support and Resources	
3a	Arrangements for requesting and using off site assistance have been made.	☐
3b	State and local staff can be accommodated at the EOF in accordance with the emergency plan. (NA for CR3)	☐
4	10 CFR 50.47(b)(4) Emergency Classification System	
4a	A standard scheme of emergency classification and action levels is in use. (Requires final approval of Screen and Evaluation by EP CFAM.)	☐
5	10 CFR 50.47(b)(5) Notification Methods and Procedures	
5a	Procedures for notification of State and local governmental agencies are capable of initiating notification of the declared emergency within 15 minutes (30 minutes for CR3) after declaration of an emergency and providing follow-up notification.	☐
5b	Administrative and physical means have been established for alerting and providing prompt instructions to the public within the plume exposure pathway. (NA for CR3)	☐
5c	The public ANS meets the design requirements of FEMA-REP-10, Guide for Evaluation of Alert and Notification Systems for Nuclear Power Plants, or complies with the licensee's FEMA-approved ANS design report and supporting FEMA approval letter. (NA for CR3)	☐

10 CFR 50.54(q) Screening Evaluation Form

Part IV. Emergency Planning Element and Function Screen (cont.)		
6	10 CFR 50.47(b)(6) Emergency Communications	
6a	Systems are established for prompt communication among principal emergency response organizations.	☐
6b	Systems are established for prompt communication to emergency response personnel.	☐
7	10 CFR 50.47(b)(7) Public Education and Information	
7a	Emergency preparedness information is made available to the public on a periodic basis within the plume exposure pathway emergency planning zone (EPZ). (NA for CR3)	☐
7b	Coordinated dissemination of public information during emergencies is established.	☐
8	10 CFR 50.47(b)(8) Emergency Facilities and Equipment	
8a	Adequate facilities are maintained to support emergency response.	☐
8b	Adequate equipment is maintained to support emergency response.	☐
9	10 CFR 50.47(b)(9) Accident Assessment	
9a	Methods, systems, and equipment for assessment of radioactive releases are in use.	☐
10	10 CFR 50.47(b)(10) Protective Response	
10a	A range of public PARs is available for implementation during emergencies. (NA for CR3)	☐
10b	Evacuation time estimates for the population located in the plume exposure pathway EPZ are available to support the formulation of PARs and have been provided to State and local governmental authorities. (NA for CR3)	☐
10c	A range of protective actions is available for plant emergency workers during emergencies, including those for hostile action events.	☐
10d	KI is available for implementation as a protective action recommendation in those jurisdictions that chose to provide KI to the public.	☐
11	10 CFR 50.47(b)(11) Radiological Exposure Control	
11a	The resources for controlling radiological exposures for emergency workers are established.	☐
12	10 CFR 50.47(b)(12) Medical and Public Health Support	
12a	Arrangements are made for medical services for contaminated, injured individuals.	☐
13	10 CFR 50.47(b)(13) Recovery Planning and Post-accident Operations	
13a	Plans for recovery and reentry are developed.	☐
14	10 CFR 50.47(b)(14) Drills and Exercises	
14a	A drill and exercise program (including radiological, medical, health physics and other program areas) is established.	☐
14b	Drills, exercises, and training evolutions that provide performance opportunities to develop, maintain, and demonstrate key skills are assessed via a formal critique process in order to identify weaknesses.	☐
14c	Identified weaknesses are corrected.	☐
15	10 CFR 50.47(b)(15) Emergency Response Training	
15a	Training is provided to emergency responders.	☐

10 CFR 50.54(q) Screening Evaluation Form

Part IV. Emergency Planning Element and Function Screen (cont.)		
16	10 CFR 50.47(b)(16) Emergency Plan Maintenance	
16a	Responsibility for emergency plan development and review is established.	☐
16b	Planners responsible for emergency plan development and maintenance are properly trained.	☐

PART IV. Conclusion	
If no Part IV criteria are checked, a 10 CFR 50.54(q) Effectiveness Evaluation is not required, then complete Attachment 4, 10 CFR 50.54(q) Screening Evaluation Form, Part V. Go to Attachment 4, 10 CFR 50.54(q) Screening Evaluation Form, Part VI for instructions describing the NRC required 30 day submittal.	X
If any Attachment 4, 10 CFR 50.54(q) Screening Evaluation Form, Part IV criteria are checked, then complete Attachment 4, 10 CFR 50.54(q) Screening Evaluation Form, Part V and perform a 10 CFR 50.54(q) Effectiveness Evaluation. Shaded block requires final approval of Screen and Evaluation by EP CFAM. Appendix 8 of the Oconee Nuclear Station Emergency Plan is the ONS Spill Prevention, Control and Countermeasure Plan. (SPCC Plan) The SPCC Plan is the programmatic means for ONS to ensure compliance with 40CFR112, Oil Pollution Prevention, an Environmental Protection Agency regulation. The proposed revision is a re-write to standardize the format of the document to fleet requirements. The summary of changes for the SPCC Plan provided by the author was reviewed (see attached) and the changes were segregated by type (editorial vs non-editorial). Those changes considered editorial will be addressed in this Screening. Changes not considered editorial will be addressed in a separate Screening. Given there is no interrelationship between the SPCC Plan and NUREG 0654, 10CFR47, 10CFR50 or FEMA-REP-10, changes to the SPCC cannot result in a reduction in effectiveness in ONS's ability to implement the sixteen planning standards detailed above. A review of both the current and proposed revisions to this document reaffirmed that there is no interrelationship between the ONS SPCC Plan and any structure, component, procedure or process utilized to implement the sixteen planning standards. Therefore, this revision to the ONS Emergency Plan does not result in a reduction in effectiveness.	☐

Part V. Signatures		
Preparer Name (Print): Don M Tucker	Preparer Signature: Don M Tucker	Date: 6-11-15
Reviewer Name (Print): Donald A. Gaul	Reviewer Signature:	Date: 6/22/15
Approver (EP Manager Name (Print): Patrick M Street	Approver Signature:	Date: 6/23/15
Approver (CFAM, as required) Name (Print)	Approver Signature:	Date:

10 CFR 50.54(q) Screening Evaluation Form

Part VI. NRC Emergency Plan and Implementing Procedure Submittal Actions

Create two EREG General Assignments. • One for EP to provide the 10 CFR 50.54(q) summary of the analysis, or the completed 10 CFR 50.54(q), to Licensing.	☐
• One for Licensing to submit the 10 CFR 50.54(q) information to the NRC within 30 days after the change is put in effect.	☐

QA RECORD

10 CFR 50.54(q) Screening Evaluation Form

Screening and Evaluation Number	Applicable Sites	
EREG #:_____	BNP	☐
	CNS	☐
	CR3	☐
	HNP	☐
5AD #:__0_____	MNS	☐
	ONS	X
	RNP	☐
	GO	☐

Document and Revision:	Emergency Plan Revision 2015-05

Part I. Description of Activity Being Reviewed (event or action, or series of actions that may result in a change to the emergency plan or affect the implementation of the emergency plan):
Appendix 8 of the Oconee Nuclear Station Emergency Plan, ONS Spill Prevention, Control and Countermeasure Plan (SPCC Plan), is being revised to standardize to fleet standards.

Part II. Activity Previously Reviewed?	Yes ☐	No X
Is this activity Fully bounded by an NRC approved 10 CFR 50.90 submittal or Alert and Notification System Design Report? If yes, identify bounding source document number or approval reference and ensure the basis for concluding the source document fully bounds the proposed change is documented below: Justification: NA	10 CFR 50.54(q) Effectiveness Evaluation is not required. Enter justification below and complete Attachment 4, Part V.	Continue to Attachment 4 , 10 CFR 50.54(q) Screening Evaluation Form, Part III
Bounding document attached (optional)		☐

10 CFR 50.54(q) Screening Evaluation Form

Part III. Editorial Change	Yes ☐	No X
Is this activity an editorial or typographical change only, such as formatting, paragraph numbering, spelling, or punctuation that does not change intent? Justification:	10 CFR 50.54(q) Effectiveness Evaluation is not required. Enter justification and complete Attachment 4, Part V & VI.	Continue to Attachment 4 , Part IV and address non editorial changes

Part IV. Emergency Planning Element and Function Screen (Reference Attachment 1, Considerations for Addressing Screening Criteria)

Does this activity involve any of the following, including program elements from NUREG-0654/FEMA REP-1 Section II? If answer is yes, then check box.

1	10 CFR 50.47(b)(1) Assignment of Responsibility (Organization Control)	
1a	Responsibility for emergency response is assigned.	☐
1b	The response organization has the staff to respond and to augment staff on a continuing basis (24-7 staffing) in accordance with the emergency plan.	☐
2	10 CFR 50.47(b)(2) Onsite Emergency Organization	
2a	Process ensures that onshift emergency response responsibilities are staffed and assigned	☐
2b	The process for timely augmentation of onshift staff is established and maintained.	☐
3	10 CFR 50.47(b)(3) Emergency Response Support and Resources	
3a	Arrangements for requesting and using off site assistance have been made.	☐
3b	State and local staff can be accommodated at the EOF in accordance with the emergency plan. (NA for CR3)	☐
4	10 CFR 50.47(b)(4) Emergency Classification System	
4a	A standard scheme of emergency classification and action levels is in use. (Requires final approval of Screen and Evaluation by EP CFAM.)	☐
5	10 CFR 50.47(b)(5) Notification Methods and Procedures	
5a	Procedures for notification of State and local governmental agencies are capable of initiating notification of the declared emergency within 15 minutes (30 minutes for CR3) after declaration of an emergency and providing follow-up notification.	☐
5b	Administrative and physical means have been established for alerting and providing prompt instructions to the public within the plume exposure pathway. (NA for CR3)	☐
5c	The public ANS meets the design requirements of FEMA-REP-10, Guide for Evaluation of Alert and Notification Systems for Nuclear Power Plants, or complies with the licensee's FEMA-approved ANS design report and supporting FEMA approval letter. (NA for CR3)	☐

10 CFR 50.54(q) Screening Evaluation Form

Part IV. Emergency Planning Element and Function Screen (cont.)		
6	10 CFR 50.47(b)(6) Emergency Communications	
6a	Systems are established for prompt communication among principal emergency response organizations.	☐
6b	Systems are established for prompt communication to emergency response personnel.	☐
7	10 CFR 50.47(b)(7) Public Education and Information	
7a	Emergency preparedness information is made available to the public on a periodic basis within the plume exposure pathway emergency planning zone (EPZ). (NA for CR3)	☐
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8	10 CFR 50.47(b)(8) Emergency Facilities and Equipment	
8a	Adequate facilities are maintained to support emergency response.	☐
8b	Adequate equipment is maintained to support emergency response.	☐
9	10 CFR 50.47(b)(9) Accident Assessment	
9a	Methods, systems, and equipment for assessment of radioactive releases are in use.	☐
10	10 CFR 50.47(b)(10) Protective Response	
10a	A range of public PARs is available for implementation during emergencies. (NA for CR3)	☐
10b	Evacuation time estimates for the population located in the plume exposure pathway EPZ are available to support the formulation of PARs and have been provided to State and local governmental authorities. (NA for CR3)	☐
10c	A range of protective actions is available for plant emergency workers during emergencies, including those for hostile action events.	☐
10d	KI is available for implementation as a protective action recommendation in those jurisdictions that chose to provide KI to the public.	☐
11	10 CFR 50.47(b)(11) Radiological Exposure Control	
11a	The resources for controlling radiological exposures for emergency workers are established.	☐
12	10 CFR 50.47(b)(12) Medical and Public Health Support	
12a	Arrangements are made for medical services for contaminated, injured individuals.	☐
13	10 CFR 50.47(b)(13) Recovery Planning and Post-accident Operations	
13a	Plans for recovery and reentry are developed.	☐
14	10 CFR 50.47(b)(14) Drills and Exercises	
14a	A drill and exercise program (including radiological, medical, health physics and other program areas) is established.	☐
14b	Drills, exercises, and training evolutions that provide performance opportunities to develop, maintain, and demonstrate key skills are assessed via a formal critique process in order to identify weaknesses.	☐
14c	Identified weaknesses are corrected.	☐
15	10 CFR 50.47(b)(15) Emergency Response Training	
15a	Training is provided to emergency responders.	☐

10 CFR 50.54(q) Screening Evaluation Form

Part IV. Emergency Planning Element and Function Screen (cont.)		
16	10 CFR 50.47(b)(16) Emergency Plan Maintenance	
16a	Responsibility for emergency plan development and review is established.	☐
16b	Planners responsible for emergency plan development and maintenance are properly trained.	☐
PART IV. Conclusion If no Part IV criteria are checked, a 10 CFR 50.54(q) Effectiveness Evaluation is not required, then complete Attachment 4, 10 CFR 50.54(q) Screening Evaluation Form, Part V. Go to Attachment 4, 10 CFR 50.54(q) Screening Evaluation Form, Part VI for instructions describing the NRC required 30 day submittal.		X

10 CFR 50.54(q) Screening Evaluation Form

If any Attachment 4, 10 CFR 50.54(q) Screening Evaluation Form, Part IV criteria are checked, then complete Attachment 4, 10 CFR 50.54(q) Screening Evaluation Form, Part V and perform a 10 CFR 50.54(q) Effectiveness Evaluation. Shaded block requires final approval of Screen and Evaluation by EP CFAM.

Summary of changes:

Change 1: Addition of Keowee Hydro on Title Page. This change clarifies the fact that Keowee Hydro is included in the SPCC plan, which was the case previously, however not specifically called out in the SPCC Plan. This item has no interaction with the sixteen planning standards, therefore, continued compliance is assured.

Change 2: Addition of section 7.0 on above ground piping. This section clarifies the inclusion the program and requirements for above ground piping. This item has no interaction with the sixteen planning standards, therefore, continued compliance is assured.

Change 3: Page 29, Part III of current revisions includes Emergency Preparedness Manager in Technical Staff Support. Proposed revision does not specifically describe this responsibility. This is an ancillary responsibility for the ONS EP Manager and is not related to responsibilities related to Emergency Preparedness. This item has no interaction with the sixteen planning standards, therefore, continued compliance is assured.

Change 4: Page 30, Part III of current revisions states that shoreline cleanup equipment is maintained by Emergency Planning. Proposed revision does not state this is EP's responsibility however, this responsibility continues to reside with Emergency Preparedness by virtue of inventory procedure PT/0/B/0250/045. This item has no interaction with the sixteen planning standards, therefore, continued compliance is assured. ☐

Change 5: Addition of Table 13-1 in proposed revision. This provides a means of tracking reviews and approvals of the SPCC. This item has no interaction with the sixteen planning standards, therefore, continued compliance is assured.

Change 6: Addition of Section 14.0, Conformance With Other Regulations. This section provides any interfaces with and applicability of State, County and City regulations (in this case, none). This item has no interaction with the sixteen planning standards, therefore, continued compliance is assured.

Appendix 8 of the Oconee Nuclear Station Emergency Plan is the ONS Spill Prevention, Control and Countermeasure Plan. (SPCC Plan) The SPCC Plan is the programmatic means for ONS to ensure compliance with 40CFR112, Oil Pollution Prevention, an Environmental Protection Agency regulation.

The proposed revision is a re-write to standardize the format of the document to fleet requirements. The summary of changes for the SPCC Plan provided by the author was reviewed (see attached) and the changes were segregated by type (editorial vs non-editorial) Some changes, such as addition of sections, deletion of assignment of responsibility etc. are not editorial, and will be addressed in this screening. Given there is no interrelationship between the SPCC Plan and NUREG 0654, 10CFR47, 10CFR50 or FEMA-REP-10, changes to the SPCC cannot result in a reduction in effectiveness in ONS's ability to implement the sixteen planning standards detailed above. A review of both the current and proposed revisions to this document reaffirmed that there is no interrelationship between the ONS SPCC Plan and any structure, component, procedure or process utilized to implement the sixteen planning standards. Therefore, this revision to the ONS Emergency plan does not result in a reduction in effectiveness.

10 CFR 50.54(q) Screening Evaluation Form

Part V. Signatures:		
Preparer Name (Print): Don M Tucker	Preparer Signature:	Date: 6-11-15
Reviewer Name (Print): Donald A. Crowl	Reviewer Signature:	Date: 6/22/15
Approver (EP Manager Name (Print): Patrick M Street	Approver Signature:	Date: 6/23/15
Approver (CFAM, as required) Name (Print)	Approver Signature:	Date:

Part VI. NRC Emergency Plan and Implementing Procedure Submittal Actions

Create two EREG General Assignments. • One for EP to provide the 10 CFR 50.54(q) summary of the analysis, or the completed 10 CFR 50.54(q), to Licensing.	☐
• One for Licensing to submit the 10 CFR 50.54(q) information to the NRC within 30 days after the change is put in effect.	☐

QA RECORD

OFFICE OF THE SECRETARY
CORRESPONDENCE CONTROL TICKET

Date Printed: Nov 14, 2012 14:15

PAPER NUMBER: ~~LTR-12~~-0678 **LOGGING DATE:** 11/14/2012

ACTION OFFICE: EDO

To: Leeds, NRR
Ref. G20120808
Cys: OEDO
R111
OGC
Merzke, OEDO

AUTHOR: Mr. Lawrence Criscione

AFFILIATION:

ADDRESSEE:

SUBJECT: ~~Allegation Material~~ - concerns Lake Jocassee Dam and the threat to Oconee Nuclear Station

ACTION: Appropriate

DISTRIBUTION: Chrm, Comrs, OIG, OGC

LETTER DATE: 11/14/2012

ACKNOWLEDGED No

SPECIAL HANDLING: Reference: LTR-12-0612 and LTR-12-0589

NOTES:

FILE LOCATION: Safe

DATE DUE: **DATE SIGNED:**

Template: SECY-017 E-RIDS: SECY-01

November 14, 2012

(b)(6)

Barbara Boxer, Chairman
US Senate Committee on the Environment & Public Works
410 Dirksen Senate Office Bldg.
Washington, DC 20510-6175

Dear Senator Boxer:

There are three reactors in Oconee County, South Carolina which face a risk of meltdown and containment failure that is highly similar to the accident which occurred in Japan in March 2011. The staff of the US Nuclear Regulatory Commission has known about these risks since 2007 but has yet to adequately address the issue. I am writing to you because the Commissioners of the NRC failed to bring up the three Oconee Nuclear Station reactors during their March 15, 2012 testimony at the US Senate Committee on the Environment & Public Works hearing and because it is unclear to me whether or not the Commissioners are fully aware of the vulnerabilities at Oconee.

The vulnerability posed to the reactors concerns a catastrophic failure of Jocassee Dam, which is upstream of the Oconee Nuclear Station. The NRC has known since 2006[1] that the flood wall at Oconee Nuclear Station is 7 to 12 feet too low to protect against the predicted flood height that would occur were Jocassee Dam to catastrophically fail. Like the reactors at Fukushima Dai-ichi, the reactors themselves at Oconee and their containment buildings are designed to survive earthquakes and flooding. However, their support systems – that is, the emergency standby equipment needed to safely shut them down and remove decay heat from their cores – are vulnerable to failure due to flooding which overtops their flood walls. The difference between Oconee and Fukushima is the source of the flood: a dam break instead of a tsunami. Aside from that difference, the predicted accidents are eerily similar in both their timing sequence and their probability of an unmitigated release of radioactivity to the surrounding countryside.

On September 18, 2012 I wrote a letter to NRC Chairman Macfarlane detailing my concerns regarding the vulnerability posed by Jocassee Dam to the Oconee reactors. Three days after sending my letter, I was informed by my branch chief that he was directed to fill out a NRC Form 183 on me for not adequately designating my letter as "Official Use Only – Security-Related Information". Four weeks after sending my letter I was informed by the Chairman's

[1] See pp. 5-9 of the "Oconee Nuclear Station Integrated Inspection Report 05000269/2006002, 05000270/200602, 05000287/2006002". This report is in the NRC's Agencywide Documents Access and Management System (ADAMS) under "Accession Number" ML061180451. Most of the documents I refer to in this letter are non-public and the most efficient way to request them from the NRC is to refer to the ADAMS Accession Number.

legal counsel that my letter had been referred to the NRC's Office of the Inspector General. Other than these two instances, I have not had any other discussions regarding my letter and am unsure if the Chairman or any of the other Commissioners have read my letter or are aware of the details of my concerns.

I have been directed by the NRC not to further distribute my 2012-09-18 letter because it is not properly designated. I have also been directed to no longer send NRC documents to Congressional staffers without going through my chain of command and the NRC's Office of Congressional Affairs. However, I did copy you on that 2012-09-18 letter, and Valerie Manak and Nathan McCray of the E&PW staff should have electronic copies of it.

Since becoming involved in the Jocassee/Oconee issue in 2007, the NRC's Office of Nuclear Reactor Regulation (NRR) has designated all internal and external correspondence regarding this issue as "Official Use Only – Security-Related Information". This designation not only prohibits the American public from knowing about the grave risks which Jocassee Dam poses to the reactors at Oconee, but, as I will explain below, this designation has also inhibited internal discussion of these concerns within the NRC.

In a September 26, 2008 letter to the US Nuclear Regulatory Commission (ML082750106), Duke Energy provided a harrowing timeline of what would occur at the Oconee Nuclear Station (ONS) were Jocassee Dam to catastrophically fail. Despite the fact that this time line appears in a Wikipedia article on Oconee Nuclear Station, since the NRC considers the Duke Energy letter to be "Official Use Only – Security-Related Information" I cannot quote the letter here. But the scenario provided in the 2008-09-26 Duke Energy letter is essentially the scenario that occurred at Fukushima Dai-ichi except, instead of a tsunami being the source of water overtopping the known inadequately sized flood wall, the source of water at ONS is a flood resulting from the failure of Jocassee Dam.

Prior to the 2011-03-11 tsunami, it was believed that the annual probability of a 45 foot tall tsunami reaching Fukushima Dai-ichi was on the order of once in every 100,000 years. It is now widely held that the annual probability is more likely around once in every 1,000 years.

In the 1980's it was believed the annual probability of Jocassee Dam failing was on the order of one chance in 100,000.[2] However, by 2007 the US NRC believed the actual number was more on the order of one chance in 10,000.[3]

When the five Commissioners testified before your committee on March 15, 2012, members of the staff at the US NRC believed that the three reactors at the Oconee Nuclear Station faced a risk eerily similar to what occurred at Fukushima Dai-ichi. Yet none of the Commissioners mentioned that fact when Senator Barrasso brought up the Union of Concerned Scientists'

[2] 1.3E-5/year was the failure frequency Duke Energy used in some of its risk assessments.
[3] 2.9E-4/year is the failure rate the NRC has calculated for large rock-filled dams similar to Jocassee.

report on the vulnerability of US plants to Fukushima type disasters. Were the Commissioners withholding information from your committee? I don't believe so. I think what actually has happened is that crucial information has been withheld from them. They cannot testify before Congress about vulnerabilities of which they themselves have not been made fully aware.

To me, the most important tool the public has for ensuring good regulation and safety is accurate information. In a democratic republic such as ours, openness and transparency are essential in providing our citizens and their elected officials with the accurate information they need to make informed decisions.

To my knowledge, concerns that the flood wall at the Oconee Nuclear Station was too small first surfaced internally at Duke Energy in late 1993 and first made it to the NRC's attention in February 1994. The NRC dismissed the concerns in September 1994 as "not credible" because of an inappropriately low assumption regarding the failure rate of Jocassee Dam.

The issue regarding the inadequately sized flood wall resurfaced in March 2006. While attempting to defend a violation he had written against Duke Energy for inadequately controlling a two year breach in the flood wall (ML061180451), one of the NRC Resident Inspectors at Oconee Nuclear Station began researching the regulatory requirements for the flood wall.

In 2007 NRR's Division of Risk Assessment (NRR/DRA) determined that the annual failure probability of dams similar in construction to Jocassee is around 2.5E-4/year, which equates to a chance of once in every 4000 years (ML100780084).[4] These might seem like good odds, but, given that a catastrophic failure of Jocassee Dam will lead to a Fukushima scenario in South Carolina, these odds make the risk of a significant accident and radiation release at Oconee Station about 100 times greater than the risks associated with a typical US commercial nuclear reactor.

In 2008 the NRC sent Duke Energy a 10CFR50.54(f) request (ML081640244) to obtain the necessary information to adequately determine if the risks posed to Oconee Nuclear Station by Jocassee Dam were acceptable. A 10CFR50.54(f) request is a rare occurrence and it undoubtedly got the attention of the Commissioners. However, because by this time the NRC was stamping all documents concerning Jocassee Dam as "Official Use Only – Security-Related Information" (OUO-SRI), it did not get the attention of the public.

My primary reason for bringing the Jocassee/Oconee issue to your attention is because, to me, it is an example of how lack of discipline regarding transparency has allowed a significant issue to go uncorrected for over six years and counting, with the current deadline for resolution still four years away. I believe that NRR's stamping of all documents concerning Jocassee Dam as

[4] ML100780084 is dated 2010-03-15. This is the formalized version of research and calculations performed in 2007 by Ferrante and Mitman of NRR/DRA.

"OUO-SRI" has not only prevented the public scrutiny necessary for our democratic and republican institutions to properly function, but has also inhibited the internal flow of information within the NRC and thereby has been detrimental to both public safety and security.

Duke Energy's response to the NRC's 10CFR50.54(f) request was, like the original request, withheld from the public under the guise of security. This response is the document which contains the Fukushima-style timeline regarding what would occur to the three reactors at Oconee were Jocassee Dam to catastrophically fail.[5] It is unclear to me whether or not any of the Commissioners reviewed this document. It is ludicrous to expect the Commissioners to review every piece of correspondence received by the NRC – they have a staff of over 4,000 federal employees to assist with that. But I would assume that all important issues make it to their attention during their periodic briefings. However, based on the documents I have reviewed, I question the exact level of detail which they have received regarding the Jocassee/Oconee issue during their briefings from NRR.

On February 3, 2009 Commissioner Peter Lyons traveled to South Carolina to tour Jocassee Dam and Oconee Nuclear Station. In the briefing book prepared from him by NRR (ML090280474) there is a 25-line summary detailing the flooding issues. The 2008-08-15 10CFR50.54(f) request is mentioned in this summary. However, what did not make it into this summary is NRR/DRA's estimate that the failure rate of Jocassee Dam is about 2.5E-4/year and that in their 2008-09-26 response to the 20CFR50.54(f) request Duke Energy admitted that a catastrophic failure of Jocassee Dam would likely lead to the meltdown of all three reactor cores at the Oconee Nuclear Station and possibly the failure of the containment structures.

On February 20, 2009 two engineers from NRR's Division of Risk Assessment, Fernando Ferrante and Jeffrey Mitman, began routing an Information Notice (IN 2012-02) concerning the risks posed to some nuclear reactor sites due to dam failures. The purpose of this information notice (ML090510269) was:

> *... to alert addressees of a potentially nonconservative screening value for dam failure frequency that originated in 1980's reference documents which may have been referenced by licensees in their probabilistic risk assessment (PRA) for external events. Using a nonconservative screening value for dam failure frequency to evaluate the need for an additional detailed analysis may result in underestimating the risks to the plant associated with external flooding or loss of heat sink from the failure of upstream and*

[5] I cannot quote from Duke Energy's 2008-09-26 letter without the NRC claiming that this letter to you is now "Official Use Only – Security-Related Information" which must only be provided through their Office of Congressional Affairs (NRC/OCA). I respectfully suggest that your staff request ML082750106 and ML112430114 from NRC/OCA. The Fukushima-style timeline appears on p. 10 of attachment 2 of ML082750106 and on pp. 8-9 of ML112430114. It is also quoted on the fourth page of my 2012-09-18 letter to NRC Chairman Macfarlane.

downstream dams or levees. The NRC expects that recipients will review the information for applicability to their facilities and consider actions, as appropriate, to avoid similar problems.

Please note that this Information Notice was being routed more than two years prior to Fukushima occurring. That is, two years prior to the 2011-03-11 flooding-induced triple reactor accident at Fukushima, the NRC was aware that certain US plants might face a similar scenario were dams upstream of them to fail. However, this information notice was not released until more than three years later (March 5, 2012 which was nearly a year after Fukushima). The reason this information notice took more than three years to route was because of the controversial nature of NRR's indecisiveness regarding how to address the flooding vulnerabilities at Oconee and also because of the debate over whether dam break effects on nuclear reactors is a security concern which needs to be withheld from the American public.

In the past year, I have encountered many people, both within the NRC and external, who are adamant that the vulnerability which a failure of Jocassee Dam poses to the reactors at Oconee is a security liability which must be kept from the public. Although I am sympathetic to the desire not to broadcast our security liabilities, I have no tolerance for using concerns over security as a pretext for withholding important safety vulnerabilities from the public. When the Jocassee/Oconee issue first came to light in an April 28, 2006 publicly available inspection report, the issue was not being withheld. At some point in 2007 the NRC, either at the request of Duke Energy or on their own accord, decided to begin withholding from the public all correspondence regarding the safety liability posed by a failure of Jocassee Dam.

Is Jocassee Dam a credible target for terrorists and/or saboteurs? I don't know. But it does make sense to me that, in 2007, the NRC might reasonably want to withhold information regarding Jocassee/Oconee while they determined whether or not a security vulnerability existed and whether or not security measures were required to be put into place to protect it. What does not make sense to me, however, is that in 2012 we are still withholding from the public information on a vital safety concern under the guise of "Security-Related Information". After five years, have we not addressed the security concerns?

It is unreasonable to me that a government agency is allowed to withhold a significant public safety concern from the public under the guise of security, yet then not, after 5 years, do any meaningful study of the issue to determine if, in fact, a security vulnerability does exist and what must be done to remove it. Is there a security concern or isn't there? If there is, why, after five years, has it not been addressed? If there is not, then why, after five years, are we still withholding vital information from the public under the guise of security?

In April 2009, NRR was in the process of responding to Duke Energy regarding resolution of the Jocassee/Oconee issue. As part of the routing of that response, NRR's Division of Risk Assessment was asked for their concurrence. The Deputy Director of NRR/DRA, Melanie Galloway, refused to initial her concurrence block and instead submitted a Non-Concurrence

form (ML09117010) on April 6, 2009. Like all documents regarding Jocassee/Oconee, Ms. Galloway's Non Concurrence form is stamped "OUO-SRI" and I cannot quote from it. But a deputy division director submitting a Non-Concurrence is rare; this is a process that is mainly used by lower level staff, and even for them it is rare. Had Ms. Galloway's Non-Concurrence form – which in no way concerns security vulnerabilities – been publicly available, it would have likely gained the attention necessary to get the Jocassee/Oconee issue resolved in a timely manner.

Had intervener groups such as the Union of Concerned Scientists been given access to Melanie Galloway's Non-Concurrence form via publicly available ADAMS, then they would have likely been able to counter the pressure which Duke Energy was placing on NRR. With dozens of their own engineers, lawyers and hired contractors, Duke Energy was able to convince NRR that, in order for improvements to Oconee's flooding defenses to be required, the NRC needed to probabilistically show that Jocassee Dam placed an inordinate risk upon the three reactors at Oconee. Pressure from the Union of Concerned Scientists and other intervener groups, however, would have likely convinced NRR that, per Duke Energy's operating license for the Oconee reactors, in order for Duke Energy to be allowed to continue to operate the three reactors at Oconee they needed to deterministically show that these reactors were adequately protected from a catastrophic failure of Jocassee Dam.

On April 9, 2009 Chairman Jaczko was briefed by NRR on the Jocassee/Oconee issue. I don't exactly know what was said at this briefing. The briefing slides (ML091030172) mentioned that new calculations concerning the failure frequency of Jocassee Dam suggested that core damage frequency (i.e. the annual probability that a meltdown will occur) for the reactors at Oconee might be non-conservative by an order of magnitude. What is not mentioned in the slides is Duke Energy's Fukushima-style scenario (contained in their 2008-09-26 letter) of what would occur at Oconee Nuclear Station were Jocassee Dam to catastrophically fail.

On January 6, 2010 the leadership of NRR met to discuss the Jocassee/Oconee issue (ML100280954). The purpose of the meeting was whether NRR should issue an order to Oconee requiring them to, in a timely manner, mitigate the risks posed by a failure of Jocassee Dam, or whether NRR should merely issue another 10CFR50.54(f) request for information and potentially follow up with an order later. The "Cons" listed for the "10CFR50.54(f) option" were that it was not as enforceable as an order and that it had a slower response time for resolution of the external flooding issue. The "Cons" listed for the "order option" were that there was the potential for a public hearing and that an order required signature authority. In other words, to go the route of an order, the Commission and the public would need to be made aware of the risks which Jocassee Dam posed to Oconee. Despite the slower response time, NRR opted to go the route of the 10CFR50.54(f) letter and avoid the Commission and public scrutiny an order would entail.

In February 2010 – using information provided by Ferrante and Mitman of NRR/DRA – George Wilson submitted an informal memorandum to the NRC's Office of Nuclear Regulatory

Research (RES) requesting that a Generic Issue be assigned to investigate whether external flooding concerns, similar to those posed by Jocassee Dam to the three reactors at Oconee, existed elsewhere in our nation's fleet of 104 commercial reactor plants. George Wilson was the Dam Safety Officer in NRR's Division of Engineering (NRR/DE). At the time, we (i.e. RES/DRA/OEGIB) deemed Mr. Wilson's February 2010 memo to be too speculative and inflammatory to make it an official agency record; however, I have a copy of it if your committee staff requires it. This memo is an example of just how serious mid-level staffers in the various divisions of NRR viewed the Jocassee/Oconee issue. Keep in mind, this is over a year prior to the Fukushima accidents, yet the staff within NRR were presciently predicting the nuclear catastrophe that could occur were an inadequately sized flood wall to be overtopped allowing the flooding of the standby shutdown equipment necessary to remove decay heat from the reactor cores and containment buildings. Unfortunately it does not appear the managers at NRR were providing the Commissioners all the details of the NRR staff's concerns.

On June 22, 2010 NRR issued a Confirmatory Action Letter to Duke Energy (ML101730329) requiring them to (1) by August 2, 2010 provide an estimate of the volume of water impounded by the Lake Jocassee Dam to be used for flood height analyses at Oconee Nuclear Station, (2) by November 30, 2010 provide a list of modifications to be made at Oconee to adequately protect the plant from flooding due to a failure of the Lake Jocassee Dam, and (3) by November 30, 2011 have the provided modifications in place.

On July 19, 2010, NRR sent a formal memo to RES requesting a Generic Issue on flooding of nuclear power plant sites following upstream dam failures (ML101900305). In August 2010, the Operating Experience and Generic Branch (RES/DRA/OEGIB) of the Division of Risk Assessment in the NRC's Office of Nuclear Regulatory Research began working on a screening analysis report for what would become GI-204 (Generic Issue 204). In my opinion, the 2010-07-19 memo and the attendant screening report are evidence of the NRC staff identifying a significant vulnerability and striving to get it addressed. Please note that this issue was being forwarded without the hindsight of the Fukushima accident and entirely due to the analysis of the NRR staff and their determination to pro-actively address an issue significant to the safety of about a fifth of our nation's nuclear reactor plants.

On August 2, 2010, Duke Energy provided the NRC with an estimated volume of water to be assumed impounded by the Lake Jocassee Dam. Their estimate was a "sunny day" estimate. For reasons not understood by myself and other staff engineers at the NRC, Duke Energy believes that a failure of Jocassee Dam during an inordinately heavy rainfall (such as the one experienced in Senator Sanders' state in 2011 as the remnants of Hurricane Irene blew over parts of Vermont and New York) is not a credible scenario. In January 2011, Jeff Mitman of NRR/DRA challenged this assumption through the Non-concurrence process (ML110260443).

On November 29, 2010, Duke Energy informed the NRC that it was giving itself an additional 6 months to provide the list of modifications needed to protect the three reactors at Oconee from a failure of the Lake Jocassee Dam (ML103490330). Despite this issue being over four

years old in its current incarnation (and over 16½ years old from its 1994 incarnation), NRR did not object to Duke's 6 month extension.

By March 10, 2011 (the eve of the earthquake and tsunami in Japan), RES/DRA/OEGIB had drafted its screening analysis report for GI-204 and submitted it for routing. As you are well aware, on March 11, 2011 flooding induced from a tsunami disabled the emergency equipment at the Fukushima Dai-ichi reactors leading to the meltdowns of three reactor cores and the destruction of the buildings housing their containments. In the NRC's Office of Nuclear Regulatory Research, we assume that the accident in Japan would add a sense of urgency to the approval of GI-204 and the addressing of the flooding concerns at Oconee. Instead, it inordinately delayed both. I am in no position to completely understand what occurred, but from my second-hand vantage point it appears that the management at NRR viewed the true vulnerability exposed by Fukushima not to be the flooding issue at Oconee but rather their multi-year mismanagement of getting it addressed.

On April 29, 2011 Duke Energy provided the NRC the list of modifications it intended to do at Oconee to protect against a failure of Jocassee Dam (ML111460063). In this letter, Duke Energy extended the NRC's due date for implementation of the modifications from Nov. 30, 2011 to a nebulous commitment of 30 months after the approval of the modification plans by the NRC and FERC (the Federal Energy Regulatory Commission).

So, as of April 29, 2011 – seven weeks after the Fukushima accidents – the NRC's deadline for adequately protecting the Oconee reactors from a failure of Jocassee Dam had slid from November 30, 2011 to some indefinite time in roughly mid-2014.

As noted many times to your committee, the NRC has issued orders to all 104 reactor plants to make modifications based on the lessons learned from the Fukushima accident. What has likely not been noted to your committee is that the NRC has allowed Duke Energy to slide their mid-2014 due date for protecting Oconee from a Jocassee Dam failure to 2016 in order to conform with the Fukushima deadlines given to the other US reactor plants. But the three reactors at Oconee are different from the rest of the US fleet. Unlike the other 101 reactors, the three reactors at Oconee had a <u>known</u> external flooding concern that, over nine months <u>prior</u> to the Fukushima accident event occurring, had a November 30, 2011 deadline set (i.e. the 2011-11-30 deadline was established in a 2010-06-22 letter which was delivered to Duke Energy nearly 9 months prior to the 2011-03-11 tsunami occurring). The 2016 deadline is reasonable for the other 101 reactors because this was a new issue for them. But for the three reactors at Oconee, by the time the post-Fukushima orders came out they were already 5 years into the external flooding issue and had a deadline for modifications already set. Does it make sense that their already generous deadline be extended to match everyone else's?

The history I have provided you is little known within the NRC. Because of supposed security concerns, the Jocassee/Oconee issues are not discussed at All Hands Meetings. The issues are not discussed in sessions at the NRC's annual Regulatory Information Conference (RIC). The

issues do not appear in articles of Platts, or at American Nuclear Society conferences, or in online nuclear discussion groups, or in Union of Concerned Scientists blogs. Because of the OUO-SRI designation of all correspondence regarding this issue, there is virtually no internal oversight within the NRC to make sure NRR is properly handling this issue. And because of the OUO-SRI designations there was a strong push by NRR to force RES to remove all OUO-SRI material from the screening report for GI-204.

Like briefing packages for the Commissioners, Generic Issue screening reports are typically released to the public as part of the NRC's commitment to transparency. But it must be remembered that these reports are not written for public consumption – they are written for internal use. Briefing packages to the Commissioners are written to concisely inform the Commissioners of important points on key issues. Generic Issue screening reports are written to inform the screening panel members of the issues. Being that the Commissioners and the NRC staff are all authorized to view OUO-SRI documents, why would we water down our internal reports by removing all OUO-SRI material and thereby share less information with ourselves? I do not know the answer to that, but I have a suspicion.

When NRR knows a document – such as a Generic Issue screening report or a Commissioner briefing package – is going to eventually be released to the public, they prefer it be released without redactions. Redactions are a "red flag" for intervener groups like Greenpeace and the Union of Concerned Scientists. If the Fukushima-style timeline from Duke Energy's 2008-09-26 letter were to appear in a briefing book for Commissioner Apostolakis' trip to Oconee, then NRR knows that, when that briefing book is eventually released with a paragraph from the "External Flooding" section redacted, David Lochbaum will be asking his connections on Capitol Hill to request the redacted section. To avoid this, NRR essentially "pre-redacts" it by not even including it in the first place. Unfortunately, in doing this they keep the Commissioners from obtaining vital information that the Commission needs to know to make important decisions.

And likewise for the screening panel for Generic Issue 204. Richard Perkins, the lead author of the *"Screening Analysis Report for the Proposed Generic Issue on Flooding of Nuclear Power Plant Sites Following Upstream Dam Failures"* (ML112430114), was under constant pressure from NRR to remove the 2008-09-26 Duke Energy timeline from his report (he has a foot tall stack of internal NRC email correspondence to document it). Richard Perkins came to the NRC from the Department of Energy where he worked on the annual certification process for assuring the safety and reliability of America's nuclear weapons. He is a graduate of the National War College and was used to working with Top Secret and Special Compartmentalized Information (TS-SCI) on a daily basis. To him, the notion that the screening panel for GI-204 did not have a "need to know" the accident timeline from Duke Energy's 2008-09-26 letter was absolutely ludicrous. He has rhetorically asked me on many occasions, "Why would we want to redact this information from our <u>internal</u> report?"

On September 14, 2012 Richard Perkins submitted a letter to the NRC's Inspector General alleging that the NRC had *"intentionally mischaracterized relevant and noteworthy safety*

information as sensitive, security information in an effort to conceal the information from the public." I assume the NRC's Office of the Inspector General (OIG) is investigating his complaint but am unaware of their findings. Given the NRC OIG's proclivity for narrowly focusing on procedural processes and not questioning the broader intent of those processes, I am doubtful that the OIG investigation will be conducted with a broad enough questioning attitude to adequately investigate Mr. Perkins' claims.

On September 12 & 13, 2011, Commissioner Apostolakis visited Jocassee Dam. In the NRR prepared briefing book for that visit (ML11244A024), the 25 line description of the External Flood section provided to Commissioner Lyons had shrunk to 9 lines. Although Commissioner Apostolakis' visit was a mere six months after Fukushima, no mention of Duke Energy's Fukushima-style timeline from their 2008-09-26 letter was made in the briefing book. Nor was there any mention of the failure probability of Jocassee Dam being in the same range as the probability of a 45 foot tsunami hitting the Fukushima Dai-ichi site.

On February 1, 2012 Commissioner Svinicki visited Jocassee Dam. NRR's briefing book for that visit (ML12026A549) contains a whole page on the External Flooding issue, yet does not mention the facts that (1) the issue has gone on for six years, (2) the Duke Energy accident timeline is very similar to Fukushima, (3) the flooding probability is similar to Fukushima, (4) NRR had assigned Duke Energy a 2011-11-30 deadline nine months prior to Fukushima, (5) seven weeks after Fukushima that 2011-11-30 deadline was extended by Duke Energy to mid-2014, and (6) the deadline for Duke Energy's propose modifications to their flooding defenses was later moved to 2016 to match the Fukushima action plan for all the plants without known flooding hazards. These are things that, were I Commissioner Svinicki, I would like to know before visiting Oconee – and, for that matter, before testifying before your committee on March 15, 2012.

On February 16, 2012 Duke Energy came to NRC headquarters for a "Drop-in Visit" with Bill Borchardt, the NRC's Executive Director for Operations (EDO). NRR's briefing book for that visit (ML12039A217) contains a page on the External Flooding issue which is similar to the one provided to Commissioner Svinicki. I do not know if Mr. Borchardt is aware of the true risk that Jocassee Dam poses to the three reactors at Oconee, but if all he knows is the summary in his briefing book, then there is much which he is unaware of yet needs to know.

On March 15 all five Commissioner testified before your committee at the Hearing on Post-Fukushima U.S. Reactor Safety. None of the Commissioners mentioned the fact that three reactors in Oconee County, South Carolina face a similar risk as was faced by the reactors at Fukushima Dai-ichi on March 11, 2011. I believe they did not mention it to your committee because it has been kept from them themselves.

On July 11, 2012 Duke Energy again visited Mr. Borchardt for a "Drop-in Visit" and on August 7, 2012 they dropped in on the Commissioners. As before, the briefing books supplied for these

visits (ML12188A071 & ML12206A325) did not mention the true risks posed by Jocassee Dam or the delays in resolving these risks.

If you believe the issues I have brought forward in this letter are of interest to your committee, then I respectfully suggest your staff seek answers to the following:

1. What is the official NRC determination as to the best estimate of the annual failure frequency of Jocassee Dam? How does this failure frequency compare to the annual frequency of a tsunami similar to the one in Japan on 2011-03-11 which caused the flooding induced nuclear accident at Fukushima Dai-ichi?
2. What is the official NRC position regarding whether or not a catastrophic failure of Jocassee Dam is a credible risk for which Duke Energy must deterministically show that the three reactors at Oconee Nuclear Station are adequately protected?
3. What is the official NRC position regarding whether or not the current flooding defenses at Oconee are adequate and what, if any, improvements need to be made?
4. What is the official NRC position regarding the most likely accident sequence at Oconee Nuclear Station were Jocassee Dam to catastrophically fail? How does this accident sequence compare to the March 2011 accident at Fukushima?
5. Assuming the catastrophic failure of Jocassee Dam, what is the NRC's best estimate of the likelihood that the operators at Oconee Nuclear Station would be able to restore cooling to the reactors prior to the containment buildings failing? What are the differences between the Oconee reactors and the Fukushima reactors that leads the NRC to believe the Oconee operators will be able to successfully restore cooling prior to containment failures? Has the NRC conducted any formal studies to estimate the success rate of Duke Energy's mitigation strategies to prevent containment failures in the event of a catastrophic failure of Jocassee Dam? If so, when were these studies conducted and what were the results?
6. Has the US NRC or any federal agency conducted an assessment to determine if Jocassee Dam is adequately protected from terrorist threats? If so, what were the results of the assessments? Is access to Jocassee Dam adequately guarded from terrorist attack? Are the employees at the Jocassee Hydro-Electric Facility screened for inside saboteurs to the same level at which nuclear workers at the Oconee reactors are screened? Is it necessary to continue to withhold from the public vital safety information concerning the risks which a failure of Jocassee Dam poses to the three reactors at the Oconee Nuclear Station?
7. Do the Commissioners believe that, prior to their March 15, 2012 testimony before the US Senate Committee on the Environment & Public Works, they were adequately informed of the vulnerability which Jocassee Dam poses to the reactors at the Oconee Nuclear Station?
8. When does the US NRC intend to release to the public their correspondence concerning Jocassee Dam and Oconee Nuclear Station? What is the justification for continuing to withhold this information from the American public and from public intervener groups

such as the Union of Concerned Scientists? Does the NRC believe it would benefit from a review of its handling of the Jocassee/Oconee issue conducted by intervener groups?

Enclosed with this letter is a list of NRC correspondence, memos and studies regarding the Jocassee/Oconee issue. As can be seen from the enclosed list, this issue has festered in its current incarnation since 2006 and was originally brought forward to the NRC in 1994. Please note that most of the documents on the enclosed list are being withheld from the American public.

Although I am convinced the risks of a nuclear accident at Oconee are at least an order of magnitude greater than at a typical US reactor plant, I am not yet convinced that these risks are unacceptable. And although I do not know enough about nuclear security to judge whether or not all the security issues have been adequately addressed, at this time I do not believe a credible security threat to Jocassee Dam exists. I am not appealing to your committee with safety or security concerns. My concern is transparency, and how the lack of it has not only impeded this issue from getting the public scrutiny which it requires but may also be impeding this issue from getting the appropriate scrutiny from the Commissioners of the US Nuclear Regulatory Commission.

Very respectfully,

Lawrence S. Criscione, PE
Reliability & Risk Engineer
Operating Experience & Generic Issues Branch
Division of Risk Assessment
Office of Nuclear Regulatory Research
US Nuclear Regulatory Commission
(b)(6)

Enclosure

Cc: Senator James Inhofe, Ranking Member, Committee on Environment & Public Works
Senator Thomas Carper, Chairman, E&PW Subcommittee on Clean Air & Nuclear Safety
Senator John Barrasso, Ranking Member, E&PW Subcom. on Clean Air & Nuclear Safety
Senator Sheldon Whitehouse, Chairman, E&PW Subcommittee on Oversight
Senator Mike Johanns, Ranking Member, E&PW Subcommittee on Oversight
Chairman Allison Macfarlane, US Nuclear Regulatory Commission

List of NRC Correspondence, Memos and Studies Regarding Failure of Jocassee Dam

Date	ADAMS	Title
1994-FEB-11		Letter from Albert F. Gibson, NRC, to J. W. Hampton, Duke, "Notice of Violation and Notice of Deviation (NRC Inspection Report Nos. 50-269/93-25, 50-270/93-25, and 50-287/93-25)," dated February 11, 1994
1994-MAR-14		Letter from J. W. Hampton, Duke, dated March 14, 1994
1994-OCT-6		Internal NRC memo documenting a meeting between Region II and NRR concerning a hypothetical Jocassee Dam failure.
1994-DEC-19		Letter from Albert F. Gibson, NRC, to J. W. Hampton, Duke, "Notice of Violation and Notice of Deviation (NRC Inspection Report Nos. 50-269/94-31, 50-270/94-31, and 50-287/94-31)," dated December 19, 1994
2000-MAR-15		Letter from David E. LaBarge, NRC, to W. R. McCollum, Jr., "Oconee Nuclear Station, Units 1, 2, and 3 Re: Review of Individual Plant Examination of External Events (TAC Nos. M83649, M83650, and M83651)," dated March 15, 2000
2006-APR-28	ML061180451	OCONEE NUCLEAR STATION - INTEGRATED INSPECTION REPORT 05000269/2006002, 05000270/200602, 05000287/2006002
2006-AUG-31	ML080780143	IR 05000269-06-016, IR 05000270-06-016, IR 05000287-06-016, on 03/31/2006, Oconee Nuclear Station - Preliminary White Finding
2006-OCT-5	ML062890206	Oconee, Units 1, 2 & 3 - Response to Preliminary White Finding
2006-NOV-22	ML063260282	IR 05000269-06-017, IR 05000270-06-017, IR 05000287-06-017, Final Significance Determination for a White Finding and Notice of Violation, Duke Energy Carolinas, LLC
2006-DEC-20	ML063620092	Oconee, Units 1, 2, & 3, Appeal of Final Significance Determination for White Finding and Reply to Notice of Violation; EA-06-199
2007-JAN-29	ML070440345	Summary of Revised Fragility Evaluation Results for Jocassee Dam
2007-FEB-5		Letter from Bruce H. Hamilton, Duke, to NRC, "Seismic Fragility Study"
2007-FEB-22	ML070590329	Manual Chapter 0609.02 Appeal Panel Recommendations (Oconee Reply to a Notice of Violation and White Finding (EA-06-199))
2007-MAR-1	ML070610460	Oconee Appeal Panel Review of Manual Chapter 0609.02 Appeal Panel Review of Oconee Standby Shutdown Facility White Finding (EA-06-199)
2007-MAY-3	ML072970510	Oconee, Units 1, 2 and 3 - Request for NRC to Review Appeal of Final Significance Determination for SSF Flood Barrier White Finding
2007-JUN-22	ML071580259	Consideration of New Information Associated with a Final Significance Determination for a White Finding - Oconee NS
2007-JUN-28		Phone call between the NRC and Duke Energy
2007-OCT-1	ML072770765	10/01/2007, Slides with Notes for Final Regulatory Assessment of Oconee Flood Barrier Issue
2007-OCT-1	ML072770775	Dam Failure Information
2007-OCT-1	ML072770777	Questions and Answers Related to Oconee Flood Barrier
2007-NOV-20	ML073241045	Reconsideration of Final Significance Determination Associated with Standby Shutdown Oconee Facility Flood Barrier White Finding
2008-MAY-19	ML081350689	Briefing Package For Drop-In Visit By Duke Energy Chief Nuclear Officer With Chairman Klein And Commissioner Jaczko On May 21, 2008
2008-JUN-23	ML082390669	Proposal for a Risk Analysis of the Failure of the Jocassee and Keowee Dams to Assess the Potential Effects on the Safe Shut Down Facility of the Oconee Nuclear Station, South Carolina
2008-JUL-28	ML082120390	Oconee Nuclear Station - Revisions to the Selected Licensee Commitments Manual (SLC)

List of NRC Correspondence, Memos and Studies Regarding Failure of Jocassee Dam

Date	ADAMS	Title
2008-AUG-15	ML081640244	Information Request Pursuant to 10 CFR 50.54(F) Related to External Flooding, Including Failure of the Jocassee Dam at Oconee Nuclear Station, Units 1, 2, and 3 (TAC Nos. MD8224, MD8225, and MD8226)
2008-AUG-26	ML082390690	Kick Off for Risk Analysis of the Failure of the Jocassee and Keowee Dams to Assess the Potential Effects on the Safe Shutdown Facility at the Oconee Nuclear Station
2008-AUG-28	ML083300427	08/28/2008 - Summary of Closed Meeting to with Duke Energy Carolinas, LLC to Discuss the August 15, 2008, 50.54(f) Letter on External Flooding (TAC Nos. MD8224, MD8225, and MD8226)
2008-AUG-28	ML082550290	Meeting with Duke Energy Carolinas, Oconee Flood Protection and the Jocassee Dam Hazard
2008-SEP-6	ML082250166	Oconee Nuclear Station - Communication Plan for Information Request Related to Failure Frequencies for the Jocassee Pumped Storage Dam (Jocassee Dam) at the Oconee Nuclear Station and Potential Generic Implications
2008-SEP-26	ML082750106	Oconee, Units 1, 2 and 3 - Response to 10 CFR 50.54(f) Request
2008-NOV-5	ML091060761	11/05/08 Summary of Closed Meeting with Duke on External Flooding Issues, including failure of the Jocassee Dam, at Oconee Nuclear Station, Units 1, 2, and 3
2008-NOV-5	ML083390650	11/05/2008 Meeting Slides, "Oconee Site Flood Protection," NRC Meeting with Duke Energy Carolinas, LLC
2008-DEC-4	ML091420319	12/04/2008 Meeting Summary, Meeting to Discuss External Flooding at Oconee Nuclear Station (Reissuance, with Error on Page 3 Corrected)
2008-DEC-4	ML090480044	Oconee Nuclear Station, External Flood NRR Meeting, Rockville, MD, December 4, 2008
2009-FEB-3	ML090280474	Briefing Package for Commissioner Lyons Visit to Oconee on February 4, 2009
2009-APR-6	ML091170104	Oconee Nuclear Station, Units 1, 2 And 3 - Non-concurrence on Evaluation of Duke Energy Carolinas, LLC September 26, 2008, Response to Nuclear Regulatory Commission Letter Dated August 15, 2008 Related to External Flooding
2009-APR-9	ML091030172	Oconee External Flooding Briefing for Commissioner Jaczko
2009-APR-30	ML090570779	Oconee Nuclear Station Units 1, 2, and 3, Evaluation of Duke Energy Carolinas September 26, 2008, Response to External Flooding, Including Failure of the Jocassee Dam
2009-MAY-11	ML092940769	05/11/2009 Summary of Closed Meeting with Duke Energy Carolinas, LLC, to Discuss Preliminary Results of the Recent Inundation and Sensitivity Studies Concerning Failure of the Jocassee Dam and Resultant Flooding at Oconee Nuclear Station, 1, 2, and 3
2009-MAY-11	ML090820470	5/11/2009 Notice of Forthcoming Closed Meeting with Duke Energy Carolinas, LLC, to Discuss Sensitivity Studies Concerning Failure of the Jocassee Dam & Resultant Flooding at the Oconee Nuclear Station, Unit 1, 2, & 3
2009-MAY-11	ML091380424	Oconee Nuclear Station, Slides for Closing Meeting May 11, 2009 with Duke on the Oconee Flooding Issue
2009-MAY-20	ML091470265	Oconee, Units 1, 2 & 3, Request for Extension of Duke Response Time to Referenced Letter
2009-MAY-26	ML091480116	E-mail re Briefing Package for Visit to Jocassee Dam on June 23, 2009
2009-JUN-1	ML091590046	Oconee, Units 1, 2, and 3, Request to Withhold Sensitive Information in Presentation Materials Left with Staff
2009-JUN-10	ML091680195	Oconee, Units 1, 2, and 3 - Interim 30-Day Response to Reference 2.

List of NRC Correspondence, Memos and Studies Regarding Failure of Jocassee Dam

Date	ADAMS	Title
2009-JUN-11	ML091620669	6/11/09 Summary of Closed Meeting with Duke Carolina to Discuss External Flooding at Oconee
2009-JUN-25	ML091760072	NRC Site Visit to the Oconee Nuclear Station on June 15, 2009
2009-JUL-9	ML092020480	Oconee, Units 1, 2, & 3, Final 60-Day Response to Reference 2
2009-JUL-28	ML092230608	Oconee, Submittal of Selected Licensee Commitments Manual SLC Revision
2009-AUG-12	ML090570117	Oconee Flood Protection and the Jocassee Dam Hazard Basis for NRC Allowing Continued Operation
2009-AUG-27	ML092380305	Oconee, Slides for Closed Meeting Regarding External Flood Technical Meeting On August 27, 2009
2009-SEP-25	ML092710344	Site Visit Observation on 09/25/2009 by Joel Munday for Oconee
2009-OCT-28	ML093080034	10/28/09 Slides for Oconee Nuclear Station, Units 1, 2, and 3 - Meeting Slides - External Flood NRC Technical Meeting
2009-NOV-30	ML093380701	Oconee Nuclear Station, Units 1, 2, and 3, Oconee External Flood Analyses and Associated Corrective Action Plan
2009-DEC-4	ML090680737	12/04/09 Summary of Closed Meeting to Discuss the Duke Energy Carolinas, LLC., 09/26/08 Response to NRC's August 15, 2008 50.54(f) Letter on External Flooding at Oconee
2010-JAN-6	ML100280954	01/06/2010 Briefing to the Executive Team on the Oconee Nuclear Station External Flooding Issue
2010-JAN-11	ML100150066	Request Additional Information Regarding the Oconee External Flooding Issue
2010-JAN-15	ML100210199	Oconee, Units 1, 2 and 3 - Additional Information Regarding Postulated External Flood Threat Issues
2010-JAN-29	ML100271591	Evaluation of Duke Energy Carolina, LLC (Duke), November 30, 2009, Response to Nuclear Regulatory Commission (NRC) Letter Dated April 30, 2009, Related to External Flooding At Oconee Nuclear Station, Units 1, 2, And 3 (Oconee)
2010-FEB-8	ML100470053	Oconee, Units 1, 2, & 3, External Flood, Response to Request for Additional Information
2010-FEB-26	ML100610674	Oconee, Units 1, 2, & 3, External Flood Revised Commitment Letter
2010-MAR-5	ML103430047	Oconee Nuclear Station, Units 1, 2, & 3, Letter From Duke Energy Carolinas, LLC Regarding External Flood, Response to Request For Additional Information
2010-MAR-15	ML100780084	Generic Failure Rate Evaluation for Jocassee Dam Risk Analysis
2010-MAR-18	ML100810388	Prepare Briefing Book and Material for Eric Leeds for the Duke Fleet Meeting on March 18, 2010
2010-APR-14	ML100760109	Generic Failure Rate Evaluation for Jocassee Dam
2010-MAY-27	ML101600468	Oconee, Units 1, 2 & 3, Response to Requested Information on the Protection Against External Flooding Including a Postulated Failure of the Jocassee Dam
2010-JUN-1	ML101750619	OUO - Communication Plan For Issuance of Confirmatory Action Letter To Duke For Oconee - External Flooding June 2010
2010-JUN-3	ML101610083	Oconee Nuclear Station, Units 1, 2, and 3, - External Flood Commitments
2010-JUN-22	ML101730329	Oconee, Units 1, 2 & 3, Confirmatory Action Letter (CAL 2-10-003), Commitments to Address External Flooding Concerns
2010-JUN-29	ML101890803	06/29/2010 Summary of Closed Meeting With Duke Energy Carolinas, LLC, to Discuss External Flooding at Oconee
2010-JUL-7	ML101880768	OUO - IR 05000269-10-002, 05000270-10-006, 05000287-10-006; 01/01/2010 - 03/31/2010; Oconee Nuclear Station Units 1, 2 and 3; Interim Compensatory Measures for External Flood
2010-JUL-19	ML101900305	Identification of a Generic External Flooding Issue Due to Potential Dam Failures

List of NRC Correspondence, Memos and Studies Regarding Failure of Jocassee Dam

Date	ADAMS	Title
2010-AUG-2	ML102170006	Oconee Units 1, 2, & 3, Response to Confirmatory Action Letter (CAL) 2-10-003
2010-OCT-20	ML102910480	NRC Assessment of Oconee External Flooding Issue (October 18, 2010)
2010-OCT-26	ML102990064	NRC Staff Assessment of Duke Energy Carolinas, LLC, Oconee External Flooding Issue (TAC NOS. ME4441, ME4442, and ME4443)
2010-NOV-29	ML103490330	Oconee Nuclear Site, Units 1, 2, and 3, Oconee Response to Confirmatory Action Letter (CAL) 2-10-003
2011-JAN-5	ML110180609	Enclosure 1, Oconee Nuclear Station, Major Project Plans
2011-JAN-10	ML110260443	Non-concurrence on Oconee Assessment Letter
2011-JAN-28	ML110280153	Staff Assessment of Duke's Response to Confirmatory Action Letter Regarding Duke's Commitments To Address External Flooding Concerns At The Oconee Nuclear Station, Units 1, 2, And 3 (ONS) (TAC NOS. ME3065, ME3066, and ME3067)
2011-MAR-5	ML103410042	Supplement to Technical Basis for Allowing Oconee Nuclear Station to Remain in Operation Through November 2011, Associated with the External Flooding Issues
2011-MAR-15	ML110740482	Analysis Report for the Proposed Generic Issue on Flooding of Nuclear Power Plant Sites Following Upstream Dam Failures
2011-APR-29	ML111460063	Oconee Nuclear Site, Units 1, 2, and 3, Response to Confirmatory Action Letter (CAL) 2-10-003
2011-AUG-16	ML11229A710	E-mail re Briefing Package for Visit to Oconee Nuclear Power Plant on September 12-13, 2011
2011-AUG-18	ML11174A138	Oconee Nuclear Station, Units 1, 2, and 3, Assessment of Duke Energy Carolinas, LLC April 29, 2011, Response to Confirmatory Action Letter Regarding Modifications to Address External Flooding Concerns (TAC Nos. ME6133, ME6134, and ME6135)
2011-AUG-31	ML112430114	Screening Analysis Report for the Proposed Generic Issue on Flooding of Nuclear Power Plant Sites Following Upstream Dam Failures
2011-SEP-1	ML11244A024	Briefing Package for Visit to Oconee Nuclear Power Plant on September 12-13, 2011
2011-OCT-3	ML11278A173	Oconee Nuclear Station (ONS), Units 1, 2, and 3, Response to Requests for Additional Information Regarding Necessary Modifications to Enhance the Capability of the ONS Site to Withstand the Postulated Failure of the Jocassee Dam
2011-OCT-17	ML11294A341	Oconee Nuclear Station (ONS), Units 1, 2, and 3, Response to Requests for Additional Information Regarding Necessary Modifications to Enhance the Capability of the ONS Site to Withstand the Postulated Failure of the Jocassee Dam
2011-DEC-16	ML113500495	Screening Analysis Report for the Proposed Generic Issue on Flooding of Nuclear Power Plant Sites Following Upstream Dam Failures_redacted
2012-JAN-26	ML12026A549	Briefing Package for Commissioner Svinicki Visit to Oconee on February 1, 2012
2012-JAN-31	ML12026A254	Communication Plan for Oconee Nuclear Station (ONS) Following Issuance of GI-204
2012-FEB-3	ML12039A239	Oconee, Units 1, 2 and 3 - Request for Withholding from Public Disclosure Duke Energy Letter Dated May 20, 2009 Involving Postulated Failure of the Jocassee Dam
2012-FEB-9	ML12039A217	Briefing Package Request for Meeting with Duke Energy on February 16, 2012

List of NRC Correspondence, Memos and Studies Regarding Failure of Jocassee Dam

Date	ADAMS	Title
2012-FEB-17	ML12053A016	Duke Energy Carolinas, LLC - Recommended Revisions to the Oconee Nuclear Station Section of NRC's Screening Analysis Report for the Proposed Generic Issue on Flooding of Nuclear Plant Sites Following Upstream Dam Failure
2012-FEB-23	ML12058A236	02/23/12 Summary of a Teleconference between the US NRC and Duke Energy Regarding Comments made by Duke Energy Concerning the Issuance of the Screening Analysis Report for Generic Issue 204
2012-MAR-5	ML090510269	NRC Information Notice 2012-002 Potentially Nonconservative Screening Value For Dam Failure Frequency In Probabilistic Risk Assessments
2012-MAY-15	ML12129A186	Oconee Nuclear Station, Units 1, 2, and 3 - Request for Additional Information Regarding Modifications to Address the External Flooding Concerns (TAC NOS. ME7970, ME7971, AND ME7972)
2012-JUN-14	ML12167A372	Oconee, Units 1, 2, and 3, Response to Requests for Additional Information Regarding Modifications to Address External Flooding Concerns
2012-JUL-11	ML12215A327	07/11/2012 Licensee Non-Public Meeting Slides on Oconee External Flood Mitigation
2012-JUL-11	ML12188A071	Briefing Package for Meeting with Duke Energy on July 11, 2012
2012-AUG-7	ML12206A325	Briefing Book for Meeting with Duke Energy on August 7, 2012
2012-SEP-20	ML12268A404	Communication Plan for Flooding September 2012
2012-SEP-20	ML12219A163	Oconee Nuclear Station, Units 1, 2 and 3 - Response to Questions Regarding Modifications to Address External Flooding Hazards (TAC Nos. ME7970, ME7971, AND ME7972)

Mike, Linda

From: Vietti-Cook, Annette
Sent: Wednesday, November 14, 2012 10:33 AM
To: Bates, Andrew; Mike, Linda
Subject: Fw: Lack of Transparency Impeding Resolution of Flooding Concerns at Oconee
Attachments: Lack of Transparency Impeding Resolution of Flooding Concerns at Oconee.pdf

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From: Vrahoretis, Susan
To: Vietti-Cook, Annette; Zimmerman, Jacob
Sent: Wed Nov 14 10:30:31 2012
Subject: Fw: Lack of Transparency Impeding Resolution of Flooding Concerns at Oconee

Dear Annette,
Attached please find additional correspondence the Chairman's office received this morning. We would appreciate your help in routing this to the appropriate offices for a response.
Thank you,
Susan

Susan Vrahoretis
Legal Counsel
Office of the Chairman
(301) 415-1820

~~NOTE: This message may contain an attorney-client privileged communication and/or attorney work product. Do not disclose without Commission authorization.~~
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Sent from my NRC BlackBerry

From: Criscione, Lawrence
To: Zimmerman, Jacob; Vrahoretis, Susan
Cc: Beasley, Benjamin; Coe, Doug; Correia, Richard; Galloway, Melanie; Mitman, Jeffrey; Ferrante, Fernando; Wilson, George; Leeds, Eric
Sent: Wed Nov 14 10:23:10 2012
Subject: FW: Lack of Transparency Impeding Resolution of Flooding Concerns at Oconee

Jacob/Susan: Please forward the attached letter to the Commission staff whom you believe should be aware of it.

I have copied on this email some of the NRR staff mentioned in the letter. Please let me know if I am mis-portraying any of your positions. Please feel free to forward this letter to whomever you believe needs to see it.

V/r,
Larry Criscione
(b)(6)

From: Criscione, Lawrence
Sent: Wednesday, November 14, 2012 9:15 AM
To: 'valerie_manak@epw.senate.gov'; 'nathan_mccray@epw.senate.gov'
Subject: Lack of Transparency Impeding Resolution of Flooding Concerns at Oconee
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Please see the attached letter to the Senate Committee on the Environment & Public Works.

Jaegers, Cathy

From:	Jaegers, Cathy
Sent:	Thursday, November 15, 2012 3:58 PM
To:	RidsNrrMailCenter Resource
Cc:	RidsRgn3MailCenter Resource; Buckley, Patricia; RidsOgcMailCenter Resource; Tenaglia, Mickey; Merzke, Daniel
Subject:	SENSITIVE ACTION: Ref. G20120808 - Criscione email re: Lake Jocassee Dam
Attachments:	ACTION: Ref. G20120808

Attached is the referenced action green ticket document assigned to NRR. This will not be placed in ADAMS.