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ONS-2013-025

December 2, 2013

10 CFR 50.54(q)

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

Subject: Duke Energy Carolinas, LLC
Oconee Nuclear Station, Units 1, 2, and 3
Docket Nos. 50-269, -270, and -287
Emergency Plan Implementing Procedures Manual
Volume C, Revision 2013-14

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

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

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

Sincerely,

Scott L. Batson
Vice President
Oconee Nuclear Station

Attachments:
Revision Instructions
EPIP Volume C - Revision 2013-14
10 CFR 50.54(q) Evaluation(s)

AKLS
NRR

U. S. Nuclear Regulatory Commission
December 2, 2013

xc: w/2 copies of attachments

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

w/copy of attachments

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

w/o attachments

Mr. Eddy Crowe
NRC Senior Resident Inspector
Oconee Nuclear Station

December 2, 2013

OCONEE NUCLEAR STATION

SUBJECT: Emergency Plan Implementing Procedures
Volume C Revision 2013-14

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

REMOVE

Cover Sheet Rev. 2013-13

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Pages 1, 2, & 3

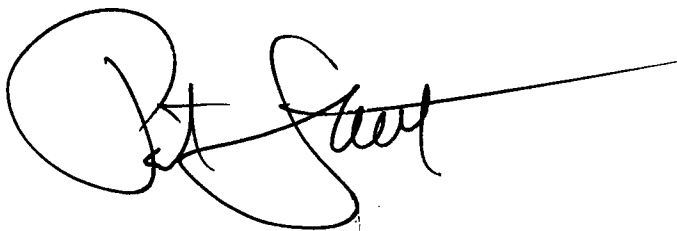
RP/0/A/1000/019 - Rev. 002

INSERT

Cover Sheet Rev. 2013-14

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Pages 1, 2, & 3

RP/0/A/1000/019 - Rev. 003

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

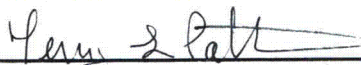
Pat Street
ONS Emergency Planning Manager



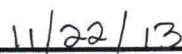
**OCONEE NUCLEAR STATION
EMERGENCY PLAN IMPLEMENTING PROCEDURES
VOLUME C**



APPROVED:



Terry L. Patterson
Safety Assurance Manager



Date Approved

**VOLUME C
REVISION 2013-14
November 2013**

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

PROCEDURE PROCESS RECORD

(1) ID No. RP/0/A/1000/019Revision No. 003**PREPARATION**

- (2) Station OCONEE NUCLEAR STATION
- (3) Procedure Title Technical Support Center Emergency Coordinator Procedure
- (4) Prepared By* John Kaminski (Signature) [Signature] Date 10/15/2013
- (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* Dennis A. Cooney (QR)(KI) Date 10/30/13
 Cross-Disciplinary Review By* _____ (QR)(KI) NA NA Date 10/30/13
 Reactivity Mgmt Review By* _____ (QR) NA NA Date 10/30/13
 Mgmt Involvement Review By* _____ (Ops. Supt.) NA NA Date 10/30/13
- (7) Additional Reviews
 Reviewed By* _____ Date _____
 Reviewed By* _____ Date _____
- (8) Approved By* Patricia M. Stiles (Signature) [Signature] Date 11/6/13

PERFORMANCE (Compare with control copy every 14 calendar days while work is being performed.)

- (9) Compared with Control Copy* _____ Date _____
 Compared with Control Copy* _____ Date _____
 Compared with Control Copy* _____ Date _____
- (10) Date(s) Performed _____
 Work Order Number (WO#) _____

COMPLETION

- (11) Procedure Completion Verification:
☐ Unit 0 ☐ Unit 1 ☐ Unit 2 ☐ Unit 3 Procedure performed on what unit?
☐ Yes ☐ NA Check lists and/or blanks initialed, signed, dated, or filled in NA, as appropriate?
☐ Yes ☐ NA Required enclosures attached?
☐ Yes ☐ NA Charts, graphs, data sheets, etc. attached, dated, identified, and marked?
☐ Yes ☐ NA Calibrated Test Equipment, if used, checked out/in and referenced to this procedure?
☐ Yes ☐ NA Procedure requirements met?
 Verified By* _____ Date _____
- (12) Procedure Completion Approved _____ Date _____
- (13) Remarks (Attach additional pages, if necessary)

**Duke Energy
Oconee Nuclear Station
Technical Support Center Emergency Coordinator
Procedure**

Procedure No.

RP/0/A/1000/019

Revision No.

003

Electronic Reference No.

OP009A62

Reference Use

PERFORMANCE

PDF Format

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

Compared with Control Copy* _____ Date _____

Compared with Control Copy* _____ Date _____

Compared with Control Copy* _____ Date _____

Date(s) Performed

Work Order/Task Number (WO#)

COMPLETION

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

Verified By*

Date

Procedure Completion Approved*

Date

**Printed Name and Signature*

Remarks (*attach additional pages, if necessary*)

IMPORTANT: Do NOT mark on barcodes.

Printed Date: *11/05/2013*

Enclosure No.: *FULL*



Revision No.: *003*



Procedure No.: *RP/0/A/1000/019*



Technical Support Center Emergency Coordinator Procedure

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

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

1. Symptoms

- 1.1 Conditions exist where events are in progress or have occurred which indicate a potential degradation in the level of safety of the plant and activation of the Emergency Response Organization (ERO) has been initiated.

2. Immediate Actions

NOTE: The makeup and structure of the ERO organization will be determined by the facility Manager/Coordinator. The facility organizations may be modified or supplemented as necessary to support the particular circumstances given to the existing onsite and offsite conditions. Vacant ERO positions may be filled with other plant staff members present in the facility and who are qualified for the position(s). Individual(s) assigned to fill vacancy should have the training, experience and skills required by the ERO training program for that position. {25}

- NOTE:**
- Enclosure 4.2 contains listing of abbreviations/acronyms.
 - Actions in Sections 2.0 and 3.0 **are NOT** required to be followed in any particular sequence.
 - Place keeping aids: ☐ at left of steps may be used for procedure place keeping (☒). Major events are required to be documented in the TSC Emergency Coordinator Log.
 - Enclosure 4.8 lists steps which may be delegated to an Assistant Emergency Coordinator or Emergency Planner.

- ☐ 2.1 Establish, **OR** have the Assistant Emergency Coordinator/Emergency Planner establish, the Technical Support Center as operational by doing the following: {10}

- ☐ 2.1.1 Use the attached Enclosure 4.3 (TSC Personnel Log Sheets) for sign-in by all personnel reporting to the TSC. Assign responsibility to the Tech Assistant to the Emergency Coordinator.
- ☐ 2.1.2 Ensure Names are also listed on the TSC Personnel Status Board in the TSC.

NOTE: The TSC **must** assume turnover from the Control Room within **75 minutes** of the initiating Emergency Classification time.

- ☐ 2.1.3 Determine the following minimum staff requirements for TSC activation.

NAME

Emergency Coordinator	_____
Dose Assessment Liaison	_____
Nuclear Engineering	_____
Offsite Communicator	_____
Tech Assistant to EC	_____

- NOTE:**
- GETS cards are available in the GETS Binder located in the TSC Supply Cabinet. Their use will enable communications when phone lines are busy or overloaded. See instructions on back of card.
 - For communications failures, see RP/0/A/1000/015B, Offsite Communications From The Technical Support Center, Enclosure 4.9 Alternate Method and Sequence to Contact Agencies.
 - Satellite Telephones are available in all Control Rooms, the TSC and the OSC. They can be used when other means of communication have failed. {27}

- ☐ 2.1.4 Verify **OR** have the Assistant Emergency Coordinator/Emergency Planner verify that the phone system is operational or make other provisions for communications. {10}
- ☐ 2.1.5 Verify **OR** have the Assistant Emergency Coordinator/Emergency Planner verify that the OSC is Operational. {10}
- ☐ 2.1.6 Verify **OR** have the Assistant Emergency Coordinator/Emergency Planner verify that Technical Assistant to the Emergency Coordinator has started a log of TSC actions and activities. {10}
- ☐ 2.1.7 **IF** Activation of the Alternate TSC is required prior to completion of turnover with the OSM.
- THEN** REFER TO Step 1.0 of Enclosure 4.6 (Alternate TSC and/or OSC Activation). {31}

- ☐ 2.2 Receive turnover from the Operations Shift Manager using Enclosure 4.1, (Operations Shift Manager To TSC Emergency Coordinator Turnover Sheet)
 - ☐ 2.2.1 Determine if OSC is operational {22}
 - ☐ 2.2.2 Determine if TSC Offsite Communicator has completed turnover with Control Room Offsite Communicator {21}
 - ☐ 2.2.3 Declare TSC and OSC activated time _____
- ☐ 2.3 Determine the status of Site Accountability from the TSC Offsite Communicator.

NOTE: RP/0/A/1000/009, Procedure for Site Assembly, is initiated when site accountability is required and contains roles and responsibilities for site personnel in completing site accountability. {23}

- ☐ 2.3.1 Direct the TSC/OSC Liaison to have a **Search & Rescue Team** dispatched from the OSC if personnel within the Protected Area have not been accounted for by their group.
- ☐ 2.4 Verify **OR** have the Assistant Emergency Coordinator/Emergency Planner verify that the electronic status board is set up and that someone is available to maintain it. {10}
- ☐ 2.5 Discuss any off-site radiological concerns with the TSC Dose Assessment Liaison.
- ☐ 2.6 Activate **OR** have the Assistant Emergency Coordinator/Emergency Planner activate the TSC/OSC Public Address (PA) System {7}{10}
 - ☐ 2.6.1 Flip the power switch UP on the PA system amplifier located inside the communications cabinet.
 - ☐ 2.6.2 Depress the microphone switch and hold in position while making PA announcements.
 - ☐ 2.6.3 Announce the following information over the TSC/OSC PA System:
 - ☐ A. The current Emergency Classification level and plant status.
 - ☐ B. As of _____(activation time), the TSC has assumed command and control of the event. {7}
 - ☐ C. "Anyone who is reporting to this facility outside of your normal work hours and has consumed alcohol within the past five (5) hours or believes their work quality may be compromised due to fatigue, notify either the Emergency Coordinator in the TSC or the OSC Manager in the OSC." {28}

☐ D. "Personnel should assume that areas are contaminated until surveyed by RP."

☐ E. "No eating or drinking, until the TSC and OSC are cleared by RP."

☐ 2.7 Turn office page over ride switch **ON**, **OR** have the Assistant Emergency Coordinator/
Emergency Planner turn the office page over ride switch **ON**. {10}

2.7.1 Dial **70** on the Emergency Coordinator's phone.

2.7.2 Announce the following information over the Plant Public Address System:

Drill Message:

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

This is a drill. This is a drill.

You have been assembled as a part of an emergency exercise. The simulated emergency
conditions are _____

If this were a real emergency, you would be asked to remain assembled waiting on
further information or given instructions to leave the site as part of an Early Dismissal or
in accordance with our site evacuation plan. At this time, however, we will continue
with the emergency exercise and personnel not actively participating in the drill may now
return to your normal work assignments. I repeat.... personnel not actively participating
in the drill may now return to your normal work assignments. This is a drill. This is a
drill. Thank you for your participation.

Emergency Message:

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

This is an emergency message.

At the present time we have a(n) _____ emergency classification. The plant status is
as follows _____

Please remain at your site assembly location until you receive further instructions.
Information will be provided to you as conditions change.

- ☐ 2.8 Contact, **OR** have the Assistant Emergency Coordinator/Emergency Planner contact the State Director of Emergency Management at the SEOC. {10}

NAME

TELEPHONE NUMBER

SDEM _____ 9(803) 737-8500

2.8.1 Inform the TSC Offsite Communicator whenever the SEOC is activated.

2.8.2 **IF** The SEOC has **NOT** been activated,

THEN Contact the County Directors of Emergency Management (CDEM) to discuss plant status.

Oconee CDEM _____ 9(864) 638-4200

Pickens CDEM _____ 9(864) 898-5943

- ☐ 2.9 Perform the following concurrently.

1. Use Step 2.10 for emergency classification.
2. Use Step 2.11 for turnover to the EOF Director.
3. Use steps in 3.0 for tasks that must continue regardless of emergency classification.
4. During a security event arrange for a qualified Emergency Coordinator to go to the near site command post to act as a liaison between the command post and the TSC.

(Step 2.10 on next page)

□ 2.10 Review emergency classification and verify that it meets the criteria of RP/0/B/1000/001 (Emergency Classification).

- Discuss changing plant conditions with the Superintendent of Operations.
- Discuss emergency classification prior to making recommendations.
- Use the following definitions and provide the Event Prognosis to the Offsite Communicator for completing line #8 on the Emergency Notification Form. {14}

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

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

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

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

Stable: Plant conditions are neither degrading nor improving.

☐ 2.10.1 **IF** An Unusual Event Classification exists,

THEN Initiate the following actions:

NOTE: If a follow-up message is due and an upgrade to a higher classification is declared, there is **NO** need to complete the follow-up message. 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.

☐ A. **IF** An upgrade in classification occurs prior to or while transmitting initial message:

THEN Perform the following actions.

- 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 it within 15 minutes of its declaration. {19}

☐ B. Notify counties/state within 15 minutes of event classification.

NOTE:

- NRC should be notified immediately after notification of Offsite Agencies **but NOT** later than **one (1) hour** after declaration of the emergency.
- Notification to the NRC of Security events is required within 15 minutes of initiation of the Security event.

☐ C. Announce over the Plant Public Address System,
"A(n)_____ (Emergency Classification Level) has been
declared for _____ (affected Unit). The current plant condition is

(stable, degrading, improving, what has occurred, etc.)

☐ D. Notify NRC of event classification/Security event.

- Remind the TSC NRC Communicator to complete the NRC Event Notification Worksheet and Plant Status Sheet prior to contacting the NRC.

NOTE: • Condition B for Keowee Hydro Project Dams/Dikes also requires notification of the Georgia Emergency Management Agency and National Weather Service. Remind the TSC Offsite Communicator to notify these agencies in addition to and after SC State, Oconee County, and Pickens County.

- Enclosure 4.7 provides a description of Condition A and B. {9}

☐ E. **IF** Condition B at Keowee exists,

THEN Notify **OR** have the Assistant Emergency Coordinator notify Hydro Central (refer to Section 6 of the Emergency Telephone Directory, Keowee Hydro Project Dam/Dike Notification).

{4}{10}

- ☐ F. Discuss **OR** have the Assistant Emergency Coordinator discuss classification with SDEM and CDEM {10}

<u>NAME</u>	<u>TELEPHONE NUMBER</u>
--------------------	--------------------------------

SDEM	9(803) 737-8500
------	-----------------

Oconee CDEM	9(864) 638-4200
-------------	-----------------

Pickens CDEM	9(864) 898-5943
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- ☐ G. **IF** An Unusual Event classification is being terminated

THEN **REFER TO** Enclosure 4.5, (Emergency Classification Termination Criteria) of this procedure for termination guidance.

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

- ☐ 1. Notify Emergency Planning that the Unusual Event has been terminated.
- ☐ 2. Emergency Planning shall hold a critique following termination of the Unusual Event.

(Step 2.10.2, Alert Classification on next page)

☐ 2.10.2 **IF** An Alert Classification exists,

THEN Initiate the following actions:

NOTE: If a follow-up message is due and an upgrade to a higher classification is declared, there is no need to complete the follow-up message. 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.

☐ A. **IF** An upgrade in classification occurs prior to or while transmitting initial message:

THEN Perform the following actions

- 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 it within 15 minutes of its declaration {19}

☐ B. Notify counties/state within 15 minutes of event classification

☐ C. Announce over the Plant Public Address System,

"A(n)_____ (Emergency Classification Level) has been declared for _____ (affected Unit). The current plant condition is

(stable, degrading, improving, what has occurred, etc.)

☐ D. Follow Up Notifications (updates) are required a minimum of every 60 minutes

NOTE: Notification of the NRC of Security events is required within 15 minutes of the initiation of the Security event. {18}

☐ E. Notify NRC of event classification/Security event.

☐ F. Start ERDS -TSC NRC Communicator, - RP/0/B/1000/003A (ERDS Operation)

- ☐ G. Discuss, **OR** have the Assistant Emergency Coordinator discuss change in classification with the State Director of Emergency Management (SDEM) and County Directors of Emergency Management (CDEM) {10}

	<u>NAME</u>	<u>TELEPHONE NUMBER</u>
SDEM	_____	9(803) 737-8500

1. **IF** The SEOC has not been activated,
THEN Contact the CDEM to discuss plant status.

Oconee CDEM _____ 9(864) 638-4200

Pickens CDEM _____ 9(864) 898-5943

- NOTE:**
- Condition B for Keowee Hydro Project Dams/Dikes also requires notification of the Georgia Emergency Management Agency and National Weather Service. Remind the TSC Offsite Communicator to notify these agencies in addition to and after SC State, Oconee County, and Pickens County. {2}
 - Enclosure 4.7 provides a description of Condition A and B. {9}

- ☐ H. **IF** Condition B at Keowee exists,

THEN Notify **OR** have the Assistant Emergency Coordinator notify Hydro Central (refer to Section 6 of the Emergency Telephone Directory, Keowee Hydro Project Dam/Dike Notification). {4}{10}

- ☐ I. Evaluate with TSC personnel the need to conduct an Early Dismissal of non-essential site personnel. Take into consideration wind direction, Security concerns, potential for classification upgrade, and 24 hour staffing needs.

(Step 2.10.3, Site Area Emergency Classification on next page)

☐ 2.10.3 **IF** A Site Area Emergency Classification exists

THEN Initiate the following actions:

NOTE: If a follow-up message is due and an upgrade to a higher classification is declared, there is no need to complete the follow-up message. 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.

☐ A. **IF** An upgrade in classification occurs prior to or while transmitting initial message:

THEN Perform the following actions.

- 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 it within 15 minutes of its declaration {19}

NOTE: A change in Protective Action Recommendations (PARs) has a fifteen (15) minute notification requirement following determination of the new or revised PARs. {15}

☐ B. Notify counties/state within 15 minutes of event classification

☐ C. **IF** Condition A, Dam Failure (Keowee or Jocassee) exists

THEN Make the following protective action recommendations to

Oconee County and Pickens County for imminent/actual dam failure and include on the Emergency Notification Form under Section 5 (B) and (E):

1. Move residents living downstream of the Keowee Hydro Project dams to higher ground.
2. Prohibit traffic flow across bridges identified on your inundation maps until the danger has passed.

- ☐ D. Announce over the Plant Public Address System,
"A(n) _____ (Emergency Classification Level) has been
declared for _____ (affected Unit). The current plant condition is

(stable, degrading, improving, what has occurred, etc.)
- ☐ E. Follow Up Notifications (updates) are required a minimum of every
60 minutes.

NOTE: Notification to the NRC of Security events is required within 15 minutes of the initiation
of the Security event. {17}

- ☐ F. Notify NRC of event classification/Security event.
- ☐ G. Start ERDS (TSC NRC Communicator - RP/0/B/1000/003A (ERDS
Operation).
- ☐ H. Discuss, OR have the Assistant Emergency Coordinator discuss change in
classification with SDEM and CDEM. {10}

<u>NAME</u>	<u>TELEPHONE NUMBER</u>
SDEM _____	9(803) 737-8500
1. <u>IF</u> The SEOC has not been activated,	
<u>THEN</u> Contact the CDEM to discuss plant status.	
Oconee CDEM _____	9(864) 638-4200
Pickens CDEM _____	9(864) 898-5943

- ☐ I. IF Condition A, Dam Failure (Keowee or Jocassee) exists
THEN REFER TO OR have the Assistant Emergency Coordinator
REFER TO Step 3.2. {10}

- NOTE:**
- Condition B for Keowee Hydro Project Dams/Dikes also requires notification of the Georgia Emergency Management Agency and National Weather Service. Remind the TSC Offsite Communicator to notify these agencies in addition to and after SC State, Oconee County, and Pickens County. {2}
 - Enclosure 4.7 provides a description of Condition A and B {9}

☐ J. **IF** Condition B at Keowee exists

THEN Notify **OR** have the Assistant Emergency Coordinator notify Hydro Central (refer to Section 6 of the Emergency Telephone Directory, Keowee Hydro Project Dam/Dike Notification). {4}{10}

(Step 2.10.4, General Emergency Classification, on next page)

2.10.4 **IF** A General Emergency Classification exists,

THEN Initiate the following actions:

☐ A. Request TSC Dose Assessors to refer to RP/0/B1000/024, Protective Action Recommendations, to determine protective actions.

☐ B. **IF** Condition A, Dam Failure (Keowee or Jocassee) exists,

THEN Make the following protective action recommendations to Oconee County and Pickens County for imminent/actual dam failure and include on the Emergency Notification Form under Section 5 (B) and (E):

1. Move residents living downstream of the Keowee Hydro Project dams to higher ground.
2. Prohibit traffic flow across bridges identified on your inundation maps until the danger has passed.

NOTE: A change in Protective Action Recommendations (PARs) has a fifteen (15) minute notification requirement following determination of the new or revised PARs. {15}

☐ C. Notify counties/state within 15 minutes of event classification

☐ D. Announce over the Plant Public Address System,

"A(n) _____ (Emergency Classification Level) has been declared for _____ (affected Unit). The current plant condition is

_____ (stable, degrading, improving, what has occurred, etc.)

☐ E. Follow Up Notifications (updates) are required a minimum of every 60 minutes.

NOTE: Notification to the NRC of Security events is required within 15 minutes of the initiation of the Security event. {18}

☐ F. Notify NRC of event classification/Security event.

☐ G. Start ERDS (TSC NRC Communicator - RP/0/B/1000/003A (ERDS Operation)).

- ☐ H. Discuss change in classification and Protective Action Recommendations with SDEM and/or CDEM. Provide any known information concerning conditions that would make evacuation dangerous.

	<u>NAME</u>	<u>TELEPHONE NUMBER</u>
SDEM	_____	9(803) 737-8500

1. **IF** The SEOC has not been activated,
THEN Contact the CDEM to discuss plant status.

Oconee CDEM _____ 9(864) 638-4200

Pickens CDEM _____ 9(864) 898-5943

- ☐ I. **IF** Condition A, Dam Failure (Keowee or Jocassee) exists

THEN **REFER TO OR** have the Assistant Emergency Coordinator
REFER TO, Step 3.2. {10}

- NOTE:**
- Condition B for Keowee Hydro Project Dams/Dikes also requires notification of the Georgia Emergency Management Agency and National Weather Service. Remind the TSC Offsite Communicator to notify these agencies in addition to and after SC State, Oconee County, and Pickens County. {2}
 - Enclosure 4.7 provides a description of Condition A and B. {9}

- ☐ J. **IF** Condition B at Keowee exists,

THEN Notify **OR** have the Assistant Emergency Coordinator notify Hydro Central (refer to Section 6 of the Emergency Telephone Directory, Keowee Hydro Project Dam/Dike Notification). {4}{10}

(Step 2.11 on next page)

NOTE: EOF Director will notify the Emergency Coordinator when the information has been received and establish a time for turnover. Turnover should be initiated **As Soon As Possible**. A goal of 30 minutes should be used to complete turnover after the EOF is declared *Operational*. {1}

☐ 2.11 Prepare for turnover with the EOF by performing the following:

2.11.1 Complete information in Enclosure 4.9, Emergency Coordinator Turnover Checklist.

2.11.2 Fax Enclosure 4.9 to the Charlotte EOF.

A. Provide Enclosure 4.9 to the TSC Offsite Communicator.

B. Request TSC Offsite Communicator to fax Enclosure 4.9 to the following number: 9-704-382-1825.

☐ 2.12 When notified by the EOF Director that the EOF is operational, notify the following TSC personnel to exchange information with their counterpart in the EOF.

<u>TSC</u>	<u>EOF Counterpart</u>
TSC Dose Assessment Liaison	Radiological Assessment Manager
TSC Offsite Communicator	Lead Off-Site Agency Communicator
TSC/EOF OPS Liaison	Accident Assessment Manager

☐ 2.13 When notified by the EOF Director, conduct turnover with the EOF.

☐ 2.13.1 Emergency Coordinator turnover to EOF Director complete.

EOF Activated _____ Time ____

☐ 2.13.2 Request NRC Communicator to notify the NRC EOC that the EOF is activated.

☐ 2.13.3 Make announcement to TSC/OSC that EOF is activated.

{6}

3. Subsequent Actions

- 3.1 **IF** A Loss of Power, loss of SDS or other event occurs in which plant parameter data is unavailable

THEN Perform the following actions:

- ☐ 3.1.1 Locate copy(s) of the Plant Parameter Data Sheets for the affected units(s) in the procedure cart.
 - ☐ 3.1.2 Request Operations Superintendent have someone manually collect plant parameter data from the Control Room(s) approximately every 15 minutes.
 - ☐ 3.1.3 Provide plant parameter data to NRC Communicator, Engineering and anyone else who needs this information. {16}
- ☐ 3.2 **IF** Condition A, Dam Failure (Keowee or Jocassee) exists.
- THEN** Perform **OR** have the Assistant Emergency Coordinator perform the following actions: {10}
- 3.2.1 **IF** Early Dismissal of non-essential site personnel has **NOT** occurred
- THEN** Notify OSC to implement RP/0/A/1000/010, Procedure For Emergency Evacuation/Relocation of Site Personnel.
- ☐ 3.2.2 Notify Hydro Central if Keowee Personnel are relocated to the OSC. {4}
 - ☐ 3.2.3 Notify Hydro Central and provide information related to the event. Refer to Section 6 of the Emergency Telephone Directory. {4}

NOTE: A loss of offsite communications capabilities (Selective Signaling and the WAN) could occur within 1.5 hours after Keowee Hydro Dam failure. Rerouting of the fiber Optic Network through Bad Creek should be started **AS SOON AS POSSIBLE**.

- ☐ 3.2.4 **IF** The EOF is **NOT** activated
- THEN** Notify Telecommunications group in Charlotte to begin rerouting the Oconee Fiber Optic Network. Refer to Selective Signaling section of the Emergency Telephone Directory (page 8).
- ☐ 3.2.5 Ensure Operations has dispatched operators to the SSF and established communications.

☐ 3.2.6 **WHEN** It is time for shift relief/turnover

THEN Coordinate orderly shift change of TSC Staff, maintaining oversight, decorum and noise levels.

1. Ensure turnover of TSC EC responsibilities includes the following:

- Review of event timeline (what occurred when and if known why)
- Review of command and control responsibilities (who is responsible for):
 - Classifications and declarations (also what EAL currently in)
 - State and Local Notifications (and when last done, when next due)
 - NRC Communications (and when last done, when next due)
 - PARs (and Status, any made, any in progress)
 - Accountability (status, any missing)
 - Evacuations (any done, any in progress)
 - Damage repairs in progress and/or completed.
- Review of staffing issues/concerns
- Review of release status
- Review core damage status
- Review any SAMGs, OSAGs, EOPs in progress

2. Make a PA announcement to the TSC and OSC stating the following:

"Attention in the TSC/OSC, This is _____(your name). I have assumed the TSC Emergency Coordinator as of _____(time)."

3. Notify State and Local agencies as well as NRC of the change in TSC EC.

☐ 3.3 **IF** A Security event occurs or is suspected

THEN Refer to Enclosure 4.10 for guidance on managing the Security event.

- ☐ 3.4 Periodically evaluate with TSC personnel the need to conduct evacuation. Log the status of this action on the TSC Status Board.

NOTE:

- Twenty-four (24) hour staffing **must** be accomplished prior to personnel being evacuated from the site per RP/0/A/1000/010 (Procedure for Emergency Evacuation/Relocation of Site Personnel).
- Determine if personnel with special radiological exposure limits need to be evacuated (e.g.; declared pregnant women, personnel with radio-pharmaceutical limitations).

- ☐ 3.4.1 Consider the following for making Site Evacuation decisions:
- Alert - Evaluate actual plant conditions and determine if Early Dismissal of non-essential site personnel is the prudent thing to do.
 - Site Area Emergency - consider evacuation/relocation of non-essential site personnel. World of Energy personnel should be evacuated at the same time as non-essential personnel.
 - General Emergency - evacuate all non-essential personnel.
 - Notify the EOF anytime personnel are relocated on site or evacuated from the site.

WARNING: Use of the Outside Air Booster Fans during a Security Event may introduce incapacitating agents into the Control Room.

{5}

- ☐ 3.5 Periodically evaluate the need to operate the outside air booster fans (Control Room Pressurization and Filter System - CRVS) with TSC personnel. Log status of this system on the TSC Status Board.

NOTE:

- Outside air booster fans are used to provide positive pressure in the Control Room/TSC/OSC to prevent smoke, toxic gas, or radioactivity from entering the area as required by NUREG 0737, Control Room Habitability.
- Chlorine Monitor Alarm will either stop the outside air booster fans **OR** will not allow them to start.

- ☐ 3.5.1 **IF** Smoke/toxic gas in the Turbine Building or Auxiliary Building is expected to reach the Control Room

THEN Instruct the Control Room to turn **ON** the outside air booster fans.

Fans On _____ Time _____

- ☐ A. Request OSC to verify operability of the Control Room Ventilation System per OP/0/A/1104/019 (Control Room Ventilation System).

☐ 3.5.2 **IF** RIA-39 is in Alarm

THEN Verify that the Control Room has turned on the outside air booster fans.

☐ A. Request OSC to verify operability of the Control Room Ventilation System per OP/0/A/1104/019 (Control Room Ventilation System).

☐ B. Request backup air sample from the OSC to verify RIA alarm

☐ C. **IF** Air sample determines that RIA-39 alarm is not valid

THEN Secure outside air booster fans.

☐ D. **IF** Air sample determines that RIA-39 alarm is valid

THEN Isolate the source of airborne contamination to the Control Room/TSC/OSC.

☐ E. **IF** Dose levels in the Control Room/TSC/OSC are being increased by the addition of outside filtered air

THEN Secure outside air booster fans.

Fans Off _____ Time _____

☐ 3.6 Periodically evaluate the need to activate the Alternate TSC and/or OSC.

☐ 3.6.1 **IF** Activation of the Alternate TSC and/or OSC is required

THEN **REFER TO** Step 2.0 of Enclosure 4.6 (Alternate TSC and/or OSC Activation). {31}

☐ 3.6.2 Notify the EOF Director once relocation to the Alternate TSC is completed.

- Ensure continuous accountability of personnel when using the Alternate TSC and/or OSC. {31}

NOTE: The NRC will send a response team to the site at a Site Area or General Emergency Classification.

- ☐ 3.7 **IF** An NRC team is enroute,
 - THEN** Assign a qualified Emergency Coordinator to be the NRC Site Coordinator for the arriving NRC team. {23}
- ☐ 3.7.1 Notify NRC Site Coordinator to report to the TSC for an update on plant conditions.
 - A. Record NRC Site Coordinator's name on Enclosure 4.4 (NRC Site Team Response Form).
 - B. Brief NRC Site Coordinator on current plant conditions.
- ☐ 3.7.2 Provide Enclosure 4.4 (NRC Site Team Response Form), to the TSC NRC Communicator.
 - A. Instruct TSC NRC Communicator to complete Steps 1.2 – 1.5 of Enclosure 4.4 (NRC Site Team Response Form).
- ☐ 3.7.3 Notify OSC Manager and request RP Manager and Security to implement actions required to process NRC Site Team.
- ☐ 3.8 Provide periodic updates to the EOFD concerning plant status. Request the EOFD to provide dose assessment and field monitoring data to the TSC on a periodic basis.
 - ☐ 3.8.1 **IF** Failed Fuel Condition Two (2) has been determined,
 - THEN** Immediately notify the EOFD.
 - A. Failed Fuel Condition Two (2) requires additional Protective Action Recommendations.
- ☐ 3.9 Authorize exposure greater than normal operating limits for planned equipment repair missions and/or emergency lifesaving missions.
 - 3.9.1 Approval may be either verbal or written.
 - 3.9.2 This authority may be delegated to the RP Manager in the OSC.
- ☐ 3.10 Update TSC and OSC personnel approximately every 30 minutes on the Emergency Classification and plant status via the TSC/OSC public address system. (Timer is available in the Emergency Procedures Cart.)

- NOTE:**
1. During declared emergencies, Duke Energy does **NOT** need to meet Fatigue Work Rule 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.
 2. Consider hours previously worked prior to ERO activation in determining shift turnover schedules for 24 hour staffing. {28}

- ☐ 3.11 Establish **OR** have the Assistant Emergency Coordinator/Emergency Planner establish twenty-four (24) hour staffing and have the Managers prepare as needed. {10}

3.11.1 TSC Personnel Log Sheets (Enclosure 4.3) are to be used for this purpose.

NOTE: Long term use of the SFP as a makeup source will deplete the SFP inventory. Engineering has evaluated and approved the following method for refilling of the SFP with filtered lake water.

- ☐ 3.12 **IF** Offsite fire apparatus is needed to provide water to the Spent Fuel Pool

THEN Request the EOFD to contact the Oconee CDEM to provide sufficient fire apparatus (at least 3 pumper trucks of 1000 gpm, or greater capacity) to Oconee Nuclear Site (If available, Keowee Ebenezer, Corinth Shiloh, or Keowee Rural Volunteer Fire Departments should be requested to provide support).

- ☐ 3.12.1 Provide the OSC Manager with the following information and request support from the OSC:
- Fire apparatus is being dispatched from Oconee County to provide water to the Spent Fuel Pool
 - Request Security Liaison to have Security Officers meet the fire apparatus at the determined site entrance
 - Request Maintenance Manager to initiate AM/0/A/3009/012A (Emergency Plan For Refilling Spent Fuel Pool).

- NOTE:**
- 10CFR50.54(x) allows for reasonable actions that depart from a License Condition or Technical Specification to be performed in an emergency when this action is immediately needed to protect the health and safety of the public and no action consistent with the License Condition or Technical Specification that can provide adequate or equivalent protection is immediately apparent.
 - 10CFR50.54(y) requires approval of any 10CFR50.54(x) actions by a Licensed Senior Operator or anyone more senior in the reporting chain (such as EC).
 - Implementation of Oconee Severe Accident Guidelines (OSAG) requires the use of 10CFR50.54(x) and (y) provisions.

☐ 3.13 **IF** Plant conditions require a decision to implement 10CFR50.54(x)

THEN Perform the following steps:

☐ 3.13.1 Document decision and actions taken in the affected units log.

☐ 3.13.2 Document decision and actions taken in the Control Room Emergency Coordinator Log.

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

☐ 3.13.3 Request Control Room/TSC NRC Communicator to report decision and actions taken to the NRC.

NOTE: 10CFR50.72 requires NRC notification for specific plant conditions.

☐ 3.14 **IF** Plant conditions require NRC notification under 10CFR50.72,

THEN Request the Control Room/TSC NRC Communicator to provide this notification using the guidance in OMP 1-14, (Notifications).

☐ 3.15 **IF** Notified by the EOF of a change in emergency classification,

THEN Request the Control Room/TSC NRC Communicator to notify the NRC of the change.

☐ 3.16 **IF** A LOCA exists inside containment,

THEN Request the Operations Superintendent to have Operations personnel refer to OP/0/A/1104/019 (Control Room Ventilation System) to verify proper operation of the Control Room Ventilation System.

{3}

- ☐ 3.17 **IF** Restoring power from a LOOP event.
 - THEN** Have Engineering Manager notify Accident Assessment in the EOF to assess the risk significance of power restoration for potential risk. {24}
- ☐ 3.18 Announce SAMG transition to TSC/OSC/EOF personnel so proper signage can be displayed with current plant conditions. {6}
- ☐ 3.19 Establish a Recovery Organization (Section M of the ONS Emergency Plan, Volume A, located in the Operations Shift Manager's office) once the emergency has been terminated.
 - 3.19.1 Request the OSC Manager to review Section M of the Emergency Plan (Volume 17A is located in Unit 3 Library located next to U3 Control Room) to begin preparation for recovery.
 - 3.19.2 Implement RP/0/B/1000/027, Re-entry Recovery Procedure.
 - 3.19.3 Announce the following in TSC/OSC:

"Covered workers need to ensure that all hours worked during an augmentation drill or declared emergency are entered into EmpCenter prior to leaving site. Supervisors should consider the need to initiate a waiver in EmpCenter per NSD-200, Section 200.8." {28}
- ☐ 3.20 Emergency Planning Section shall be responsible for completing all Procedure Process Records of Emergency Plan Implementing procedures initiated by the TSC.
- ☐ 3.21 Ensure TSC is returned to ready condition for next drill or actual event.
 - ☐ 3.21.1 Ensure **OR** have the Assistant Emergency Coordinator/Emergency Planner ensure TSC PA override switch is put in the **OFF** position. {8}{10}

4. Enclosures

- 4.1 Operations Shift Manager to TSC Emergency Coordinator Turnover Sheet
- 4.2 Emergency Preparedness Acronyms
- 4.3 TSC Personnel Log
- 4.4 NRC Site Team Response Form
- 4.5 Emergency Classification Termination Criteria
- 4.6 Alternate TSC and/or OSC Activation
- 4.7 Keowee Hydro Project Dams/Dikes - Condition A/B Descriptions {9}
- 4.8 Assistant Emergency Coordinator/Emergency Planner Delegated Procedure Steps {10}
- 4.9 Emergency Coordinator Turnover Checklist
- 4.10 Guidelines for Managing a Security Event {17}
- 4.11 References

OSM Emergency Coordinator Log/Turnover Sheet

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

Abnormal/Emergency Procedures Currently In Progress			
Emergency Response Procedures in Progress	Yes	No	List Any EOP/APs In Progress
RP/0/B/1000/002 (Control Room Emergency Coordinator Procedure)	✓		
RP/0/B/1000/016 (Medical Response)			
RP/0/B/1000/017 (Spill Response)			
RP/0/B/1000/022 (Major Site Damage)			
RP/0/B/1000/029 (Fire Brigade)			
RP/0/A/1000/009 (Procedure For Site Assembly)			
RP/0/A/1000/010 (Emergency Evacuation/Relocation of Site Personnel)			
Emergency Dose Limits for AP/EOP actions in effect?*			

* If yes, implementation of emergency worker exposure limits must be announced over Public Address System. {3}

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

THEN Provide the following information to the TSC Emergency Coordinator:

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

Status for answering 4911 emergency phone calls: Remains in Control Room _____ Responsibility of Op's in OSC _____

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

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

Emergency Coordinator/TSC _____ OSM _____

Time of Turnover _____

Enclosure 4.2
Emergency Preparedness Acronyms

RP/0/A/1000/019
Page 1 of 1

1. Emergency Preparedness Acronyms

CDEM	County Director of Emergency Management
EC	Emergency Coordinator
EOF	Emergency Operations Facility
EOFD	Emergency Operation Facility Director
ETS	Emergency Telephone System
LEC	Law Enforcement Center
NRC	Nuclear Regulatory Commission
EOC	Emergency Operations Center
OSC	Operational Support Center
PAR	Protective Action Recommendation
SCC	State/County Communicator
SDEM	State Director of Emergency Management
SEOC	State Emergency Operations Center
SWP	State Warning Point
TSC	Technical Support Center

Enclosure 3
TSC Personnel Log

RP/0/A/1000/019
 Page 1 of 2

DATE: _____

PRIMARY					RELIEF		
POSITION	NAME (Last, First, MI)	EMPLOYEE ID	TIME IN AT TSC	SHIFT SCHEDULE	NAME (Last, First, MI)	EMPLOYEE ID	SHIFT SCHEDULE
Emergency Coordinator**							
Offsite Communicator**							
Dose Assessment Liaison*							
Nuclear Engineering**							
Tech Assist to EC (Mech Engineer)**							
Asst. Emergency Coordinator							
Operations Superintendent							
TSC/OSC Liaison							

** 75 Minute Responder

Enclosure 3
TSC Personnel Log

RP/0/A/1000/019
Page 2 of 2

PRIMARY					RELIEF		
POSITION	NAME (Last, First, MI)	EMPLOYEE ID	TIME IN AT TSC	SHIFT SCHEDULE	NAME (Last, First, MI)	EMPLOYEE ID	SHIFT SCHEDULE
TSC/OSC Liaison Support							
Engineering Manager							
NRC Communicator (ENS)							
Dose Assessors							
Engineering Mgr. Assistant							
Operations Superintendent Assistant							
Operations Interface Manager							
Emergency Planning							
Community Relations (WOE)							
Local I/T							
Process Systems							

Enclosure 4.4
NRC Site Team Response Form

RP/0/A/1000/019
Page 1 of 1

1. NRC Site Team Response Form

1.1 NRC Site Coordinator _____
(name)

1.2 NRC Site Team Personnel Information:

NAME	SOCIAL SECURITY NUMBER
_____	_____
_____	_____
_____	_____
_____	_____
_____	_____
_____	_____
_____	_____
_____	_____
_____	_____

1.3 Estimated Time of Arrival (ETA): _____

1.4 Mode of Transportation: _____

Check Point: Hwy 130 - Main Station/WOE Entrance (Check Point 2)
(Circle One)

Hwy 183 - Intake Owner Controlled Area (OCA) Gate (Check Point 3)

Hwy 183 - Complex/Branch OCA Gate (Check Point 1)

1.5 Fax this form to OSC and Security using Speed Dial 031 or One-Touch Dial Code 31.

1.6 GET and BBA Requirements Waived:

RP Manager _____ Date _____

Enclosure 4.5
Emergency Classification Termination
Criteria

RP/0/A/1000/019
Page 1 of 1

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

THEN An emergency condition may be considered resolved when:

- ☐ 1.1 Existing conditions no longer meet the existing emergency classification criteria and it appears unlikely that conditions will deteriorate further.
- ☐ 1.2 Radiation levels in affected in-plant areas are stable or decreasing to below acceptable levels.
- ☐ 1.3 Releases of radioactive material to the environment greater than Technical Specifications are under control or have ceased.
- ☐ 1.4 The potential for an uncontrolled release of radioactive material is at an acceptably low level.
- ☐ 1.5 Containment pressure is within Technical Specification requirements.
- ☐ 1.6 Long-term core cooling is available.
- ☐ 1.7 The shutdown margin for the core has been verified.
- ☐ 1.8 A fire, flood, earthquake, or similar emergency condition is controlled or has ceased.
- ☐ 1.9 Offsite power is available per Technical Specification requirements.
- ☐ 1.10 All emergency action level notifications have been completed.
- ☐ 1.11 The Area Hydro Manager has been notified of termination of Condition B for Keowee Hydro Project.
- ☐ 1.12 The Regulatory Compliance Section has evaluated plant status with respect to Technical Specifications and recommends Emergency Classification termination.
- ☐ 1.13 Emergency terminated. Request the TSC Offsite Communicator to complete an Emergency Notification Form for a Termination Message using guidance in RP/0/A/1000/015B (Offsite Communications From The Technical Support Center), and provide information to offsite agencies.

Date/Time of Termination: _____ / _____ Emergency Coordinator Initials: _____

- Return to Step 2.10.1.G.1

1. Activation of the Alternate TSC prior to completion of turnover with the OSM

- ☐ 1.1 Request OSC Manager/SPOC Supervisor to initiate steps to setup the Alternate TSC located in RP/0/A/1000/025 (OSC Manager Procedure).
- ☐ 1.2 Request TSC Technical Assistant to Emergency Coordinator (or designee) to announce over the plant PA that the Alternate TSC is being activated.
- ☐ 1.3 Relocate TSC personnel except for the following to the Alternate TSC, Room 316 of the Oconee Office Building:
 - ☐ 1.3.1 TSC Offsite Communicator (1)
 - ☐ 1.3.2 TSC Technical Assistant to Emergency Coordinator
 - ☐ 1.3.3 Emergency Planning (if available)
- ☐ 1.4 Return to Step 2.2 of this procedure and complete turnover with the OSM.
 - ☐ 1.4.1 Report to the Alternate TSC with remaining support personnel after completion of turnover.

2. Activation of the Alternate TSC and/or OSC

- ☐ 2.1 Direct the TSC/OSC Liaison to inform the OSC Manager of the need to relocate the following emergency response facilities:

_____ TSC
_____ OSC
_____ TSC and OSC

- ☐ 2.2 Provide guidance on best available route to personnel being relocated to the Alternate TSC and/or the OSC.

2.2.1 **IF** A radiological release is in progress

THEN Direct the TSC/OSC Liaison to request RP to determine the best available route to the Alternate TSC and/or the OSC.

- ☐ 2.3 Direct the following TSC personnel to report to the Alternate TSC to assist with setup of the facility and establish communications with the TSC: (OSC steps are listed in RP/0/A/1000/025, OSC Manager Procedure)

_____ (1) TSC Offsite Communicator
_____ (1) Dose Assessor
_____ Ops Superintendent Assistant
_____ TSC/OSC Liaison Technical Assistant

- ☐ 2.4 Direct the TSC NRC Communicator to inform the NRC that the Alternate TSC is being activated.
- ☐ 2.5 Direct the remaining TSC personnel to report to the Alternate TSC.
- ☐ 2.6 Inform the EOF Director that the Alternate TSC is being activated and that TSC personnel including the Emergency Coordinator are enroute to that facility.
- ☐ 2.7 Return to Step 3.6.2 of this procedure after reporting to the Alternate TSC.

**Keowee Hydro Project Dams/Dikes -
Condition A/B Descriptions**

- NOTE:**
- Duke Energy Company 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 Company 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/dike has occurred or is about to occur.

2. Condition B - Potentially Hazardous Situation is developing

A situation where failure may develop, but preplanned actions taken during certain events (e.g., major flood, earthquakes, evidence of piping) may prevent or mitigate failure.

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

- Reservoir elevation at Keowee Hydro Station is 805 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.

**Assistant Emergency Coordinator/Emergency
Planner Delegated Procedure Steps**

1. Perform the following procedure steps at the direction of the TSC Emergency Coordinator:

Assistant Emergency Coordinator

- ☐ 2.1
- ☐ 2.1.4
- ☐ 2.1.5
- ☐ 2.1.6
- ☐ 2.4
- ☐ 2.6
- ☐ 2.7
- ☐ 2.8
- ☐ 2.10.1.C
- ☐ 2.10.1.D
- ☐ 2.10.2.E
- ☐ 2.10.2.F
- ☐ 2.10.3.F
- ☐ 2.10.3.G
- ☐ 2.10.3.H
- ☐ 2.10.4.H
- ☐ 2.10.4.I
- ☐ 3.1
- ☐ 3.11
- ☐ 3.21.1

Emergency Planner

- ☐ 2.1
- ☐ 2.1.4
- ☐ 2.1.5
- ☐ 2.1.6
- ☐ 2.4
- ☐ 2.6
- ☐ 2.7
- ☐ 2.8
- ☐ 3.11
- ☐ 3.21.1

Emergency Coordinator Turnover Checklist

Page 1 of 2

() CATAWBA

() MCGUIRE

() OCONEE

UNIT(S) AFFECTED:

() Unit 1

() Unit 2

() Unit 3

(8)

GENERAL	Pressure	Power Level	Reactor Coolant Temperature	Reactor Coolant
	DATE: _____	U-1 _____	_____	_____
	TIME: _____	U-2 _____	_____	_____
		U-3 _____	_____	_____
EMERGENCY CLASSIFICATION	NOUE DECLARED AT: _____		TSC ACTIVATED AT: _____	
	ALERT DECLARED AT: _____		EOF ACTIVATED AT: _____	
	SAE DECLARED AT: _____			
	G.R. 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	
	OFFSITE PARS _____		_____	
	RELEASE IN PROGRESS	YES () NO ()	KI (General Public) 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				

Emergency Coordinator Turnover Checklist

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)

NOTE: This enclosure is to be used as guidance for responding to a Security event and should be considered only an aid in managing the incident. Not all actions are applicable to all Security events nor should only these actions be considered. Only actions that are applicable and feasible should be implemented.

- ☐ 1. Establish communications with Security. Consider having a member of Security relocate to the TSC.
- ☐ 2. Evaluate the need to lock Control Room doors and or perimeter doors to buildings inside the protected area to control access and egress.
- ☐ 3. Evaluate the need to implement the two-person rule (line-of-sight).
- ☐ 4. Prioritize critical plant equipment which must be protected and be prepared to provide this information to Security.
- ☐ 5. Evaluate the need to man the SSF based on Security recommendations.
 - Consider need for emergency start of SSF diesel.
- ☐ 6. Review AP/1,2,3/A/1700/040, Aircraft Threat, procedures.
- ☐ 7. Consideration should be given to tripping the unit(s) if it is determined that there is an imminent/impending and credible threat to the site which may include:
 - Imminent loss of Control Room due to adversarial actions
 - Notification by NRC/NORAD of imminent aircraft threat
 - Entry into the Auxiliary or Containment Buildings by adversaries
- ☐ 8. Consider staging of offsite fire department and/or EMS.

1. PIP O-98-04996
2. PIP O-99-00743
3. PIP O-01-01395
4. PIP O-01-03460
5. PIP O-01-03696
6. PIP O-02-00264
7. PIP O-02-03705
8. PIP O-02-07089
9. PIP-O-03-02447
10. PIP-O-03-04975
11. PIP-O-04-04755
12. PIP-O-05-01642
13. PIP-O-05-02980
14. PIP-O-05-03349
15. PIP O-05-06827
16. PIP O-06-0884
17. PIP O-06-05641
18. PIP O-05-04697
19. PIP G-07-0127
20. PIP O-07-01590
21. PIP O-07-05157
22. PIP O-07-06549
23. PIP O-07-06992
24. PIP C-06-08633

- 25. PIP G-11-1389
- 26. PIP G-12-1530
- 27. PIP O-12-3002
- 28. PIP C-12-3794
- 29. PIP O-07-5228
- 30. PIP O-09-5976
- 31. PIP O-13-8641

§50.54(q) Screening Evaluation Form

Activity Description and References: RP/0/A/1000/019, TSC Emergency Coordinator Procedure rev 3 -

BLOCK 1

See attached comparison matrix for all changes pertaining to this procedure.

Activity Scope:

BLOCK 2

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

Change Type:

BLOCK 3

- ☐ 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:
John Kaminski

Preparer Signature

Date:
10/28/13

Reviewer Name:
Don Crowl

Reviewer Signature

Date:
10/30/13

§50.54(q) Effectiveness Evaluation Form

Activity Description and References: RP/0/A/1000/019, TSC Emergency Coordinator Procedure rev 3 -

BLOCK 1

Activity Type:

BLOCK 2

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

Impact and Licensing Basis Determination:

BLOCK 3

There is no impact to the licensing basis as a result of the proposed change. The proposed change provides for earlier announcement/notification of the event to the site personnel and thus earlier alerting and notifying and potentially mobilizing the ERO. .

Licensing Basis:

1. 10CFR50.47(b).1, (1) Primary responsibilities for emergency response by the nuclear facility licensee and by State and local organizations within the Emergency Planning Zones have been assigned, the emergency responsibilities of the various supporting organizations have been specifically established, and each principal response organization has staff to respond and to augment its initial response on a continuous basis.
- 10CFR50.47(b).5, Procedures have been established for notification, by the licensee, of State and local response organizations and for notification of emergency personnel by all organizations; the content of initial and followup messages to response organizations and the public has been established; and means to provide early notification and clear instruction to the populace within the plume exposure pathway Emergency Planning Zone have been established.
3. 10CFR50.47(b)6, Provisions exist for prompt communications among principal response organizations to emergency personnel and to the public.
4. NUREG 0654 II.E.2, Each organization shall establish procedures for alerting, notifying, and mobilizing emergency response personnel.

Compliance Evaluation and Conclusion:

BLOCK 4

1. Evaluation:

The ONS Emergency Plan continues to comply with the regulations and requirements. The proposed changes from the attached matrix clearly show that the changes are enhancements and editorial changes necessary to assure compliance with applicable regulations.

Conclusion:

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

Reduction in Effectiveness (RIE) Evaluation and Conclusion:

BLOCK 5

Evaluation:

Using information from the comparison matrix attached, changes:

1. Is an enhancements made to the procedure which clarify expectations by adding a note indicating the procedure requires a review under 10CFR50.54q prior to approval.
- Is an enhancement that enables the alternate TSC and or the Alternate OSC and or both to be activated either separately or together as they are separate facilities.
- 1b. Is an enhancement designed to show clear command and control, as the action is a direction and not a request.

2. Is an enhancement that clearly defines who is in charge of the emergency
3. Is an enhancement to the procedure for drill purposes.
4. Is an enhancement to ensure appropriate liaison is established with the command post and the TSC during a security event.
5. (includes changes 7, 9, 11) - Is an enhancement to ensure announcements are made timely, and as appropriate using a script.
6. (includes changes 8, 10, 12) Is an editorial change step numbers.
13. Is an enhancement providing a list of items to cover for EC shift turnover.
14. Is an enhancement to eliminate need to call WOE as they are now capable of hearing PA announcements.
15. Is an enhancement to correct procedure reference which was previously incorrect.
16. Is an enhancement to correct procedure reference which was previously incorrect.
- 16a. Is an enhancement that enables the alternate TSC and or the Alternate OSC and or both to be activated either separately or together as they are separate facilities.
17. Is an enhancement to ensure continuous accountability.
18. Is an enhancement to correct requirements for 10CFR50.54x
19. Is an enhancement to correct requirements for 10CFR50.54x
20. Is an enhancement directing the move to the Re-Entry/Recovery procedure.
21. Is an enhancement that enables the alternate TSC and or the Alternate OSC and or both to be activated either separately or together as they are separate facilities.
22. Is an enhancement that enables the alternate TSC and or the Alternate OSC and or both to be activated either separately or together as they are separate facilities.



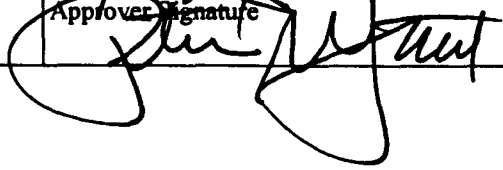
The above proposed changes can be seen to be enhancements to the procedure to assure actions are completed as required, announcements and notifications are made clearly and in a timely manner, and correct references are made to other procedures and regulatory requirements. The proposed changes are being made to enhance the procedures and do not reduce any requirements, enhance the functions and the timing of the functions being performed.

Conclusion:

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

Effectiveness Evaluation Results

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

Preparer Name: John Kaminski	Preparer Signature 	Date: 10/28/13
Reviewer Name: Don Crowl	Reviewer Signature 	Date: 4/30/13
Approver Name: PATRICK H STREET	Approver Signature 	Date: 11/6/13

RP/0/A/1000/019, Technical Support Center Emergency Coordinator Procedure rev 003
Comparison Matrix

Change #	Document Number / Page / Section	Current Wording	Proposed Wording	Reason for Change
1	Procedure / Pg 2 of 26 / NOTE	This procedure is an implementing procedure to the Oconee Nuclear Station Emergency Plan and must be forwarded to Emergency Planning within seven (7) working days of approval.	This procedure is an implementing procedure to the Oconee Nuclear Site Emergency Plan and must be: 3. Reviewed in accordance with 10CFR50.54q prior to approval 4. Forwarded to Emergency Planning within seven (7) working days of approval.	Enhancement - More clearly sets out the expectations for changing the procedure.
1a	Procedure / Pg 3 of 26 / Step 2.1.7	Refer to Step 1.0 of Enclosure 4.6 (Alternate TSC/OSC Activation)	Refer to Step 1.0 of Enclosure 4.6 (Alternate TSC and/or OSC Activation)	Enhancement- enables the use of either or both facilities
1b	Procedure / Pg 4 of 26 / Step 2.3.1	Request the TSC/OSC...	Direct the TSC/OSC ...	Enhancement - this is a directed action
2	Procedure / Pg 4 of 26 / Step 2.6.3.B	TSC/OSC activation time	As of _____ (activation time) the TSC/OSC has assumed command and control of the event.	Enhancement - Drill comment
3	Procedure / Pg 5 of 26 / Step 2.7.2	At this time, however, we will continue with the emergency exercise and you may now return to your normal	At this time, however, we will continue with the emergency exercise <i>and personnel not actively participating in the drill</i> may now return to your normal	Enhancement - Clarify expected response
4	Procedure / Pg 6 of 26 / Step 2.9.4	NA	During a security event arrange for a qualified Emergency Coordinator to go to the near site command post to act as a liaison between the command post and the TSC.	Enhancement - Drill comment
5	Procedure / Pg 8 of 26 / Step 2.10.1.C	added new step and renumbered step - Notify NRC of event classification /Security event	Announce over the Plan Public Address System, " A _____ (Emergency Classification Level) has been declared for _____ (affected Unit). The current plant condition is _____ _____ (stable, degrading, improving, what has occurred etc)	Enhancement - Provide for station announcements to alert personnel of changes to plant situation.
6	Procedure / Pg 8-9 of 26 /Step 2.10.1.D	NA	(renumbered remaining steps)	Editorial - step numbers
7	Procedure / Pg 10 of 26 /Step 2.10.2.C	added new step and renumbered step - Follow Up Notifications ...	Announce over the Plan Public Address System, " A _____ (Emergency Classification Level) has been declared for _____ (affected Unit). The current plant condition is _____ _____ (stable, degrading, improving, what has occurred etc)	Enhancement -Provide for station announcements to alert personnel of changes to plant situation.
8	Procedure / Pg 10-11 of 26 /Step 2.10.2.D	NA	(renumbered remaining steps) (Step 2.10.3 Site Area Emergency Classification on next page)	Editorial - step numbers Added for clarity

RP/0/A/1000/019, Technical Support Center Emergency Coordinator Procedure rev 003
Comparison Matrix

Change #	Document Number / Page / Section	Current Wording	Proposed Wording	Reason for Change
9	Procedure / Pg 13 of 26 /Step 2.10.3.D	added new step and renumbered step - Follow Up Notifications...	Announce over the Plan Public Address System, " A _____ (Emergency Classification Level) has been declared for _____ (affected Unit). The current plant condition is _____ _____ (stable, degrading, improving, what has occurred etc)	Enhancement - Provide for station announcements to alert personnel of changes to plant situation.
10	Procedure / Pg 13 of 26 /Step 2.10.3.D	NA	(renumbered remaining steps)	Editorial - step numbers
11	Procedure / Pg 15 of 26 /Step 2.10.4.D	added new step and renumbered step - Follow Up Notifications...	Announce over the Plan Public Address System, " A _____ (Emergency Classification Level) has been declared for _____ (affected Unit). The current plant condition is _____ _____ (stable, degrading, improving, what has occurred etc)	Enhancement - Provide for station announcements to alert personnel of changes to plant situation.
12	Procedure / Pg 14 of 26 /Step 2.10.4.D	NA	(renumbered remaining steps)	Editorial - step numbers

RP/0/A/1000/019, Technical Support Center Emergency Coordinator Procedure rev 003

Comparison Matrix

Change #	Document Number / Page / Section	Current Wording	Proposed Wording	Reason for Change
13	Procedure / Pg 19 of 26 /Step 3.2.6.D	NA	<p><u>WHEN</u> it is time for shift relief/turnover</p> <p><u>THEN</u>: Coordinate orderly shift change of TSC Staff, maintaining oversight, decorum and noise levels.</p> <ol style="list-style-type: none"> 1. Ensure turnover of TSC EC Responsibilities includes the following: <ul style="list-style-type: none"> • Review of event timeline (what occurred when and if known why) • Review of command and control responsibilities -(who is responsible for): <ul style="list-style-type: none"> ▪ Classifications and declarations (also what EAL currently in) ▪ State and Local Notifications (and when last done and when next due) ▪ NRC Communications (and when last done when next due) ▪ PARs (and Status, any made, any in progress) ▪ Accountability (status, any missing) ▪ Evacuations (any done any in progress) ▪ Damage repairs in progress and/or completed • Review of staffing issues/concerns • Review of release status • Review core damage status • Review any SMAGs, OAGs EOPs in progress <ol style="list-style-type: none"> 2. Make a PA announcement to the TSC and OSC stating the following: 'Attention in the TSC/OSC, This is _____ (your name) I have assumed the TSC Emergency Coordinator as of _____ (time). " 3. Notify State and Local agencies as well as NRC of the change in TSC EC. 	Enhancement- Added step to ensure complete turnover - as defined following shift change. Drill comment.
14	Procedure / Pg 20 of 26 /Step 3.4.1.	General Emergency - evacuate all non-essential personnel. Notify the EOF Director to evacuate the World of Energy.	General Emergency - evacuate all non-essential personnel.	Enhancement -Notifying the WOE no longer needed, WOE has PA speaker.

RP/0/A/1000/019, Technical Support Center Emergency Coordinator Procedure rev 003
Comparison Matrix

Change #	Document Number / Page / Section	Current Wording	Proposed Wording	Reason for Change
15	Procedure / Pg 20 of 26 /Step 3.5.1.A	Request OSC to verify operability of the Control Room Ventilation System per AP/1,3/A/1700/018 (Abnormal Release of Radioactivity).	Request OSC to verify operability of the Control Room Ventilation System per OP/0/A/1104/019, Control Room Ventilation System	Enhancement - Incorrect procedure reference - drill comment
16	Procedure / Pg 21 of 26 /Step 3.5.2.A	Request OSC to verify operability of the Control Room Ventilation System per AP/1,3/A/1700/018 (Abnormal Release of Radioactivity).	Request OSC to verify operability of the Control Room Ventilation System per OP/0/A/1104/019, Control Room Ventilation System	Enhancement - Incorrect procedure reference - drill comment
16a	Procedure / Pg 21 of 26 / step 3.6.1 and 3.6.2	Alternate TSC/OSC	Alternate TSC and/or OSC	Enhancement - enables activation of either the Alternate TSC or Alternate OSC and or both.
17	Procedure / Pg 21 of 26 /Step 3.6.2	NA	Added bullet: Ensure continuous accountability of personnel when using the Alternate TSC/OSC	Enhancement -Drill comment
18	Procedure / Pg 24 of 26 /NOTE	NOTE: 10CFR50.54(y) requires approval of any 10CFR50.54(x) actions by a Licensed Senior Operator.	NOTE: 10CFR50.54(y) requires approval of any 10CFR50.54(x) actions by a Licensed Senior Operator or anyone more senior in the reporting chain.	Enhancement - Previously incorrect. Drill comment
19	Procedure / Pg 24 of 26 /3.13.1	Obtain approval of a Licensed Senior Reactor Operator prior to taking any action.	Deleted	Enhancement - Not required to be approved by SRO. Drill comment.
20	Procedure / Pg 25 of 26 /3.19.2	NA	Added - Implement RP/0/B/1000/027, Re-Entry Recovery Procedure	Enhancement - Drill comment.
21	4.0 Enclosures / 4.6	Alternate TSC/OSC Activation	Alternate TSC and /or OSC	Enhancement - enables activation of either the Alternate TSC and or the Alternate OSC and or both
22	Enclosures / 4.6 Title	Alternate TSC/OSC Activation	Alternate TSC and /or OSC Added reference to Alternate OSC steps listed in RP/0/A/1000/025, OSC Managers Procedure.	Enhancement - enables activation of either the Alternate TSC and or the Alternate OSC and or both