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April 30, 2013

U. S. Nuclear Regulatory Commission  
Document Control Desk  
Washington, DC 20555


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 2013-05

Please find attached for your use and review copies of the revision to the Oconee Nuclear Station Emergency Plan.

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 2013-05  
50.54(q) Evaluation(s)

AX45  
NRB

U. S. Nuclear Regulatory Commission  
April 30, 2013  
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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. John Boska  
Oconee Project Manager, NRR/DORL  
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w/o attachments

NRC Senior Resident Inspector  
Oconee Nuclear Station

April 30, 2013

OCONEE NUCLEAR STATION

SUBJECT: Emergency Plan Implementing Procedures  
Volume C Revision 2013-05

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

Change the tabs in your manual to reflect the change, new tabs will be issued at a later date.

**REMOVE**

Cover Sheet Rev. 2013-04

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Pages 1, 2, & 3

RP/0/A/1000/009 - Rev. 000

RP/0/A/1000/019 - Rev. 000

RP/0/B/1000/024 - Rev. 008  
SUPERSEDED By;  
RP/0/A/1000/024 - Rev. 000

RP/0/B/1000/028 - Rev. 005  
SUPERSEDED By  
RP/0/A/1000/028 - Rev. 000

**INSERT**

Cover Sheet Rev. 2013-05

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RP/0/A/1000/019 - Rev. 001

RP/0/A/1000/024 - Rev. 000

RP/0/A/1000/028 - Rev. 000



Pat Street  
ONS Emergency Planning Manager



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



## **APPROVED:**

*Terry L. Patterson*

**Terry L. Patterson**  
**Safety Assurance Manager**

4/23/13

**Date Approved**

4/23/13

**Effective Date**

**VOLUME C**  
**REVISION 2013-05**  
**APRIL 2013**



# VOLUME C

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HP/0/B/1009/020	Estimating Food Chain Doses Under Post- Accident Conditions	Rev. 005
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Training Division DTS-007	Oconee Training Division Training Standard	Rev. 018

Duke Energy  
Oconee Nuclear Station  
Procedure For Site Assembly

Procedure No.

RP/0/A/1000/009

Revision No.

001

Electronic Reference No.

OP009A6U

Reference Use

PERFORMANCE

This Procedure was printed on 04/16/13 at 08:57:34 from the electronic library as:

(ISSUED) - PDF Format

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

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

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

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

Date(s) Performed

Work Order/Task Number (WO#)

COMPLETION

- ☐ 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: \*04/16/2013\*

Enclosure No.: \*FULL\*



Revision No.: \*001\*



Procedure No.: \*RP/0/A/1000/009\*



Duke Energy  
**PROCEDURE PROCESS RECORD**

(1) ID No. RP/0/A/1000/009,Revision No. 001**PREPARATION**(2) Station OCONEE NUCLEAR STATION(3) Procedure Title Procedure For Site Assembly(4) Prepared By\* John Kaminski (Signature) [Signature] Date 04/08/2013

(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\* Ray WATKINS / Ray Kistner (QR)(KI) Date 4-8-13Cross-Disciplinary Review By\* \_\_\_\_\_ (QR)(KI) NA NA Date 4-8-13Reactivity Mgmt Review By\* \_\_\_\_\_ (QR) NA NA Date 4-8-13Mgmt Involvement Review By\* \_\_\_\_\_ (Ops. Supt.) NA NA Date 4-8-13

(7) Additional Reviews

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

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

(8) Approved By\* PATRICK M STORCK / [Signature] Date 4/15/13**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)

## Procedure For Site Assembly

**NOTE:** This 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.

### 1. Symptoms

- 1.1 A test of response time and procedures employed in completing an accounting of onsite personnel.
- 1.2 An incident occurs on site and:
  - 1.2.1 The Technical Support Center, Operational Support Center, and Emergency Operations Facility are required to be established.
  - 1.2.2 Portions of the site require relocation or a site evacuation may be required.
  - 1.2.3 OSM determination (e.g., hostile action based Security events)

### 2. Immediate Actions

- 2.1 OSM/Emergency Coordinator perform required action in Enclosure 4.1, (Action Plan for (TSC or OSM) Emergency Coordinator).
- 2.2 Activate the outside Site Assembly Horn to notify personnel outside the reach of the PA System per Enclosure 4.1.
- 2.3 Continue the alarm, horn, and announcements for a duration long enough to ensure all onsite personnel are aware of the Site Assembly and are responding. (No more than 6 alarm and horn activations, together with announcements, need to be made.)
- 2.4 Make announcements over the Public Address System, Enclosure 4.3 (Public Address Announcement)
- 2.5 (Action Plan for Security Shift Supervisor) Enclosure 4.2
- 2.6 (Action Plan for Offsite Communicator) Enclosure 4.5.



### **3. Subsequent Actions**

- 3.1 It is required that personnel be accounted for within 30 minutes of initiation of site assembly. The number of unaccounted personnel can be reported first with the names being reported later.
- 3.2 Record accountability results (via phone or fax) from Security on Enclosure 4.7 (Site Accountability Log).
  - 3.2.1 It is required that personnel be accounted for within 30 minutes of initiation of site assembly. The number of unaccounted personnel can be reported first with the names being reported later.
- 3.3 When personnel accountability has been completed during a Site Assembly, one of the following will occur:
  - 3.3.1 If the requirement for an assembly no longer exists, a request to return to normal duties will be given by the Emergency Coordinator.
  - 3.3.2 Plant conditions may require evacuation of the station. Consult procedure RP/0/A/1000/010 (Procedure for Emergency Evacuation/Relocation).

### **4. Enclosures**

- 4.1 Action Plan for (TSC or OSM) Emergency Coordinator
- 4.2 Action Plan for Security Shift Supervisor
- 4.3 Public Address Announcement
- 4.4 Action Plan for Onsite Personnel
- 4.5 Action Plan For Off-Site Communicator
- 4.6 Site Assembly Locations
- 4.7 Site Accountability Log
- 4.8 Card Reader Locations
- 4.9 References

**Action Plan for (TSC or OSM) Emergency  
Coordinator**

**1. Action Plan For (TSC or OSM) Emergency Coordinator**

- \_\_\_\_\_ 1.1 Alert Security Shift Supervisor that a Site Assembly/Accountability will be initiated.
  - \_\_\_\_\_ 1.1.1 If the event for which accountability is being performed involves a hostile threat:
    - A. If the threat is a confirmed ground attack then conduct accountability when informed by Security that the threat has been neutralized.
    - B. If the threat is due to an incoming aircraft,
      - 1. Relocate personnel
      - 2. Conduct accountability
      - 3. As necessary or appropriate evacuate or dismiss personnel {2}
- \_\_\_\_\_ 1.2 Appoint a person or persons to:
  - \_\_\_\_\_ 1.2.1 Activate warble tone over PA System and outside Site Assembly horn located at the microwave tower.
  - \_\_\_\_\_ 1.2.2 Make voice announcements over the PA System per Enclosure 4.3 (Public Address Announcement).
- \_\_\_\_\_ 1.3 Obtain accountability results from TSC Off-Site Communicator or Security if communicator is not available on Enclosure 4.7 (Site Accountability Log).
- \_\_\_\_\_ 1.4 Direct necessary actions to account for any missing personnel.
  - 1.4.1 MERT will be utilized for this purpose.
- \_\_\_\_\_ 1.5 Examine the radiation/contamination levels established in RP/0/A/1000/010 (Procedure for Emergency Evacuation/Relocation), to determine the category of personnel that may need to be evacuated.
- \_\_\_\_\_ 1.6 If the requirements for an assembly no longer exist, return the station to normal duties.

**Enclosure 4.2**  
**Action Plan for Security Supervisor**

RP/0/A/1000/009  
Page 1 of 1

## **1. Action Plan For Security Supervisor**

<b>NOTE:</b> Security will use Security Procedure (SP/C/1629-O) to implement below actions
--

- \_\_\_\_\_ 1.1 Contact the World Of Energy, Keowee Hydro, Motor Pool, Operations Center (Geo Technical), and the Oconee Operations Training Center to make them aware of Site Assembly.
- \_\_\_\_\_ 1.2 Initiate a patrol of the general station area within station boundaries, both inside and outside of the restricted area, to assure that personnel in remote and noise restrictive areas are aware of the Site Assembly requirement.

<b>NOTE:</b> Should site assembly be initiated during high traffic ingress and egress, traffic flow will not be restricted.
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- \_\_\_\_\_ 1.3 Use automated gates to restrict traffic in and out of the station during Site Assembly as determined by Security.
- \_\_\_\_\_ 1.4 Receive Accountability reports from all groups via phone mail ext. 5050 and complete Enclosure 2 of SP/C/1629/O.

<b>NOTE:</b> Report names of all unaccounted personnel. However, in the event large numbers of personnel are unaccounted for, names may not initially be provided
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- \_\_\_\_\_ 1.5 Report accountability results within 30 minutes (sooner if completed) to Offsite Communicator at 3706 if the TSC is activated, Control Room OSM Emergency Coordinator if TSC is **NOT** activated. Report the numbers(s) and names(s) of any missing person(s).
- \_\_\_\_\_ 1.6 If requested by TSC Off-Site Communicator fax Enclosure 2 of SP/C/1629-O (Site Accountability Log) to ext. 4308 upon completion of site accountability.
- \_\_\_\_\_ 1.7 Coordinate a search and rescue effort if directed.
  - \_\_\_\_\_ 1.7.1 Utilize MERT for this purpose.
- \_\_\_\_\_ 1.8 Contact the World of Energy, Keowee Hydro, Motor Pool, Operations Center (Geo Technical), and the Oconee Operations Training Center to make them aware of Site Assembly completion.
- \_\_\_\_\_ 1.9 Coordinate evacuation if so instructed.

**Enclosure 4.3**  
**Public Address Announcement**

RP/0/A/1000/009  
Page 1 of 1

- CAUTION:**
- For drill purposes only, preface and close all announcements with, "This is a drill. This is a drill"
  - Activating Site Assembly Horn can potentially activate 1SA-3/B-7 "Site Assembly Alarm" this may defeat auto start for HPSW pump temporarily. {1}

**SITE ASSEMBLY ALARM INSTRUCTIONS:**

- ◆ Actuate Site Assembly Alarm switch, Control Board 1UB1, and hold in position
- ◆ Activate alarm for 10 seconds
- ◆ Repeat announcements and alarm activations six times

**PAGE ANNOUNCEMENT INSTRUCTIONS:**

- ◆ Pick up a phone located on Unit 1&2 Control Room desk
- ◆ Switch Office Page to ON
- ◆ Dial 70
- ◆ Make Announcements #1 and #2 as required by situation
- ◆ Switch Office Page to OFF after announcements have been made

**NOTE:** If any particular area of the plant is found to be unsafe during an emergency, and a Site Assembly is held, warnings should be sounded through the public address system advising the safe corridors to use.

**ANNOUNCEMENT #1**

"This is a Site Assembly. This is a Site Assembly. All visitors are to assemble with their permanently badged escorts. All permanently badged personnel shall report to their designated Site Assembly area. All other personnel not presently wearing security badges shall report to their supervisor. All personnel are required to remain at their site assembly locations until released."

**ANNOUNCEMENT #2**

Make this announcement if the Technical Support Center and Operational Support Center, are to be activated. If required, specify that the Alternate TSC and/or OSC will be used.

**"ACTIVATE THE TECHNICAL SUPPORT CENTER."**

**"ACTIVATE THE OPERATIONAL SUPPORT CENTER."**

**Enclosure 4.4**  
**Action Plan For Onsite Personnel**

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Page 1 of 2

## **1. Response To Site Assembly Alarm**

1.1 Each person (except those noted in 1.2) shall assemble with their supervisor.

1.1.1 Assembly points for personnel onsite at Oconee Nuclear Site are identified in Enclosure 4.6 (Site Assembly Locations).

**NOTE:** In case of a reactor building evacuation alarm, the reporting requirements in 1.2 apply.

1.2 Persons working in Radiation Control Areas in protective clothing should leave their work areas, remove outer protective clothing at RCZ Exit, and go to the contaminated side of the appropriate change room.

1.2.1 In the change room, they should contact the appropriate persons as designated by 2.4.1 for personnel accountability reporting. Wait in change room for further instructions concerning site assembly.

**NOTE:** Card reader locations are listed in Enclosure 4.8 (Card Reader Locations).

1.3 All personnel inside protected area will swipe their badges at their designated site assembly areas.

## **2. Normal working hours 0700-1730 (Monday – Thursday)**

2.1 Supervisors should report their accountability within 8 to 10 minutes to Site Assembly Coordinator for their group.

2.2 Superintendents/Managers or designee (Site Assembly Coordinator) shall report for their group and give names of any persons not accounted for within 20 minutes.

2.3 Completion of station accountability shall be made within 30 minutes.

2.4 All personnel shall assemble at designated assembly areas and all personnel inside the protected area shall swipe badges.

**Action Plan For Onsite Personnel**

- 2.4.1 Each supervisor shall be responsible for accounting for all assigned personnel.
- A. Each reporting supervisor or designee Site Assembly Coordinator is to report accountability by calling extension 5050 and following instructions.
- Department name, your name and extension, your accountability, and number of missing if any.
  - If a large number of personnel are unaccounted for provide number of missing to Security, Security will call back for names.
- 2.4.2 Station Superintendents/Supervisors of various organizations working at Oconee (World of Energy and Keowee Hydro) shall make an accountability report for their areas of accountability by calling extension 5050 and following instructions.

**3. After hours, weekends, holidays**

- 3.1 All personnel shall assemble at designated assembly areas and all personnel inside the protected area shall swipe badges.
- 3.1.1 Each supervisor shall be responsible for accounting for all assigned personnel.
- A. Each reporting supervisor or designee Site Assembly Coordinator shall report accountability to the Security Shift Supervisor by calling extension 5050 and following instructions.
- Department name, your name and extension, your accountability, and number of missing.
  - If a large number of personnel are unaccounted provide number of missing to Security, Security will call back for names.



## 1. Action Plan For Offsite Communicator

- 1.1 Obtain accountability results from the Security Shift Supervisor or have Security fax a copy of SP/C/1629-O Enclosure 2 (Site Accountability Log) to Off-Site Communicator fax in TSC.
  - 1.1.1 If Security is not available to acquire site assembly information, Off-Site Communicator can retrieve accountability using Enclosure 4.7 (Site Accountability Log) of this procedure.
- 1.2 Provide accountability update to Emergency Coordinator if requested.
- 1.3 Provide 30 minute accountability to Emergency Coordinator as soon as available.
  - Number and names, (if available), of unaccounted for personnel.

Site assembly accountability complete \_\_\_\_\_(time)

(See SP/C/1629-O for detailed results)

**DUKE OCONEE NUCLEAR SITE PERSONNEL**

<b><u>SECTION</u></b>	<b><u>ASSEMBLY POINT</u></b>
<b><u>Site Vice President's Group:</u></b>	
Site Vice President/Managers and Assigned Staff/Clerks:	Admin Building
<b><u>Chemistry:</u></b>	
Chemistry Staff and Technicians	Chemistry Offices
Chemistry Shifts A,B,C,D,E (On-Duty)	Radwaste Facility
Radwaste Staff and Technicians	Radwaste Facility
<b><u>Maintenance:</u></b>	
I&E SPOC Crew (On-Duty Shift A,B,C,D,E)	Work Control Center/OSC
I&E Staff, Supervisors, and Technicians	I&E Offices
I&E Plant Maintenance	5 <sup>th</sup> Floor Turbine Bd.
Mech Maintenance SPOC Crew (On-Duty Shift A,B,C,D,E)	Work Control Center/OSC
Mech Maintenance Staff, Supervisors, and Technicians	Mechanical Offices
<b><u>Operations:</u></b>	
All	Control Rooms/Ops' Offices
<b><u>Radiation Protection:</u></b>	
RP Staff	RP Offices
Support Functions	RP Offices
Surveillance and Control	RP Offices
RP Shifts A,B,C,D,E (On-Duty)	RP Offices/OSC
<b><u>Work Control:</u></b>	
All	Work Control Offices
<b><u>Engineering:</u></b>	
All	Engineering Offices
<b><u>NSC &amp; SSG:</u></b>	
All	NSC & SSG Offices

**Enclosure 4.6**  
**Site Assembly Locations**

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**SECTION**

**ASSEMBLY POINT**

**Safety Assurance:**

All

Safety Assurance Offices

**Training:**

Manager/Tech Staff, RP, Chemistry, Admin Support, GET  
Operator Training, Simulator Support, Manager/Tech Staff  
I&E Mechanical Maintenance

Training Offices  
Oconee Operations Training Center  
Maintenance Training Facility

**Human Resources:**

All

Human Resources Offices

**Community Relations:**

All

WOE Offices

**Business Management:**

All

Business Management Offices

**Security**

Security Offices  
Designated Post

**DUKE NON-OCONEE NUCLEAR SITE PERSONNEL**  
(Permanently Badged Personnel)

<b><u>SECTION</u></b>	<b><u>ASSEMBLY POINT</u></b>
<u>Engineering:</u>	Engineering Offices
<u>Operations:</u>	Operations' Offices
<u>Chemistry:</u>	Chemistry Offices
<u>Radiation Protection:</u>	RP Offices
<u>Communications:</u>	Communications' Offices
<u>Keowee:</u>	Keowee Hydro Station
<u>World of Energy:</u>	WOE Offices
<u>Quality Verification:</u>	Quality Assurance Offices
<u>Motor Pool</u>	Motor Pool offices/Garage Area
<u>Operations Center (Geo-Tech)</u>	Operations Center (Geo-Technical Offices)
Operations Center personnel Power Delivery	

**DUKE NON-OCONEE NUCLEAR SITE PERSONNEL****SECTION****ASSEMBLY POINT****Engineering:**

Engineering Offices

**Bartlett:**Personnel Inside Protected Area  
Personnel Outside Protected AreaMaintenance Support Building Canteen  
Bartlett Offices**Framatome:**

Framatome Office

**Maintenance Vendors:**Personnel Inside Protected Area  
Personnel Outside Protected AreaMaintenance Support Building Canteen  
Station Contact Group**I&E Vendors:**

Maintenance Support Building Canteen

**Radiation Protection Vendors:**

RP Offices

**NRC:**

All

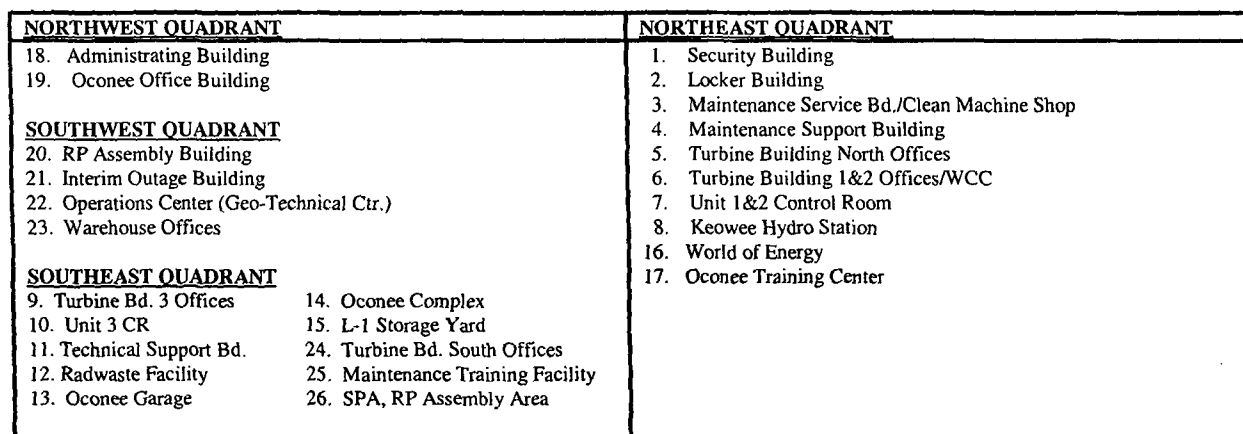
NRC Offices

**Food Service Vendor:**Personnel Inside Protected Area  
Personnel Outside Protected AreaMaintenance Support Building Canteen  
Admin. Bldg Canteen**VISITORS**Personnel Inside Protected Area with Escort  
Personnel Outside Protected AreaAssemble with escort  
Assemble with Station Contact**OTHER PERSONNEL OUTSIDE PROTECTED AREA**

All personnel not identified above will report to their Station Contacts' area of assembly.

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NORTHEAST QUADRANT





**Enclosure 4.7**  
**Site Accountability Log**

RP/0/A/1000/009  
Page 1 of 2

## 2. Site Accountability Log

**NOTE:** Instructions are for Security only unless directed otherwise.

2.1 Perform the following actions to retrieve Site Assembly call ins from phone mail #5050

- ☐ A. Dial - 5050
- ☐ B. Allow voicemail to answer
- ☐ C. Press \* \*
- ☐ D. Enter Password - 731888#
- ☐ E. Press 1
- ☐ F. Press 1 to listen to messages
- ☐ G. Press # to skip to next message
- ☐ H. Press 7 to delete messages after information is retrieved.

		ACCOUNTABILITY RESULTS		
Work Group	Contacts Name	Phone #	Time call was made	Names of Missing
Business Management				
Chemistry				
Engineering/LIT				
Human Resources / Medical				
Keowee Hydro Station				
Mechanical Maintenance				
NSC				
Operations				
Radiation Protection				
Safety Assurance/VP Staff				
Security				
SSG				
Training				
Work Control				
World of Energy				

**Enclosure 4.7**  
**Site Accountability Log**

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[illegible]

## 1. Site Assembly Card Reader Listing

PSC ID #	Location
EP CR # 01	Locker Building - hallway near west entrance to machine shop
EP CR # 02	Security Admin. Building - second level near mechanical conference room
EP CR # 03	Maintenance Service Building - maintenance shop east wall near doorway leading to yard area
EP CR # 04	Maintenance Service Building - canteen north/east wall near corridor to stairway
EP CR # 05	Maintenance Service Building - canteen south/west wall near stairway
EP CR # 06	Maintenance Service Building - second level south wall near stairway
EP CR # 07	Maintenance Service Building - fourth level south wall near stairway
EP CR # 08	Maintenance Service Building - fifth level south wall near stairway
EP CR # 09	Turbine Building - turbine floor level, north offices located at bottom of north stairwell
EP CR # 10	Turbine Building - units 1&2 turbine floor level offices located in work control/document control area near east door
EP CR # 11	Unit 2 Control Room - on south wall of control room at entrance of corridor to kitchen and TSC
EP CR # 12	Unit 2 Control Room - on north side of column Q-73
EP CR # 13	Unit 3 Control Room - on south wall of corridor between kitchen and OSC
EP CR # 14	Unit 3 Control Room - on north side of column Q-89
EP CR # 15	Technical Support Building - fifth floor operations office area near east stairway door
EP CR # 16	Technical Support Building - third floor, in corridor leading from breezeway to Chemistry area
EP CR # 17	Turbine Building - Unit 3 offices, north entrance near inside door to stairway
EP CR # 18	Turbine Building - south offices, bottom of stairway leading to second level offices
EP CR # 19	Aux. Bldg. - Unit 1&2, third level, hot change room, located in hallway near change room door
EP CR # 20	Aux. Bldg. - Unit 1&2 Spent Fuel Change Room
EP CR # 21	Aux. Bldg. - Unit 3, third level, Hot Change Room, located in hallway near change room door
EP CR # 22	Unit 3 Spent Fuel Change Room
EP CR # 23	Warehouse #3 - first floor office area, to the left, just inside door
EP CR # 24	Radiation Protection Building - lower level west stairway near outside entrance
EP CR # 25	Rad Waste Building - near control room area
EP CR # 26	Standby Shutdown Facility - ground level (elev. 796) in south laydown area near CAS corridor door

## Enclosure 4.8

RP/0/A/1000/009

## Site Assembly Card Reader Listing

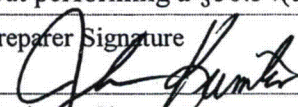
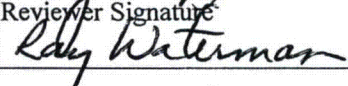
Page 2 of 2

PSC ID #	Location
EP CR # 27	Warehouse #3 outside under stairs
EP CR # 28	RP building outside west
EP CR # 29	Rad Waste Bldg. east wall
EP CR # 30	Aux. Building single point of access
EP CR # 31	Oconee Office Bldg. 1st. floor
EP CR # 32	Oconee Office Bldg. 2nd. floor
EP CR # 33	Oconee Office Bldg. 3rd. floor
EP CR # 34	Oconee Office Bldg. 4th. floor
EP CR # 35	Oconee Office Bldg. 5th. floor
EP CR # 36	Oconee Office Bldg. 6th. floor
EP CR # 37	Oconee Office Bldg. 7th. floor
EP CR # 38	Administrative Bldg. 1st. floor
EP CR # 39	Administrative Bldg. 2nd. floor
EP CR # 40	Blue Outage Bldg. #8023
EP CR # 41	Blue Outage Bldg. #8023

**1. References**

1. PIP 05-O6585
2. PIP G-12-01240, CA #9

## §50.54(q) Screening Evaluation Form

<b>Activity Description and References:</b> Revision to RP/0/A/1000/009 <i>REV 001</i>		<b>BLOCK 1</b>	
See attached sheet for all changes pertaining to this procedure.			
<b>Activity Scope:</b> <input checked="" type="checkbox"/> The activity <u>is</u> a change to the emergency plan <input type="checkbox"/> The activity <u>is not</u> a change to the emergency plan		<b>BLOCK 2</b>	
<b>Change Type:</b> <input type="checkbox"/> The change <u>is</u> editorial or typographical <input checked="" type="checkbox"/> The change <u>is not</u> editorial or typographical	<b>BLOCK 3</b>	<b>Change Type:</b> <input type="checkbox"/> The change <u>does</u> conform to an activity that has prior approval <input checked="" type="checkbox"/> The change <u>does not</u> conform to an activity that has prior approval	<b>BLOCK 4</b>
<b>Planning Standard Impact Determination:</b> <input type="checkbox"/> §50.47(b)(1) – Assignment of Responsibility (Organization Control) <input type="checkbox"/> §50.47(b)(2) – Onsite Emergency Organization <input type="checkbox"/> §50.47(b)(3) – Emergency Response Support and Resources <input type="checkbox"/> §50.47(b)(4) – Emergency Classification System* <input type="checkbox"/> §50.47(b)(5) – Notification Methods and Procedures* <input type="checkbox"/> §50.47(b)(6) – Emergency Communications <input type="checkbox"/> §50.47(b)(7) – Public Education and Information <input type="checkbox"/> §50.47(b)(8) – Emergency Facility and Equipment <input type="checkbox"/> §50.47(b)(9) – Accident Assessment* <input checked="" type="checkbox"/> §50.47(b)(10) – Protective Response* <input type="checkbox"/> §50.47(b)(11) – Radiological Exposure Control <input type="checkbox"/> §50.47(b)(12) – Medical and Public Health Support <input type="checkbox"/> §50.47(b)(13) – Recovery Planning and Post-accident Operations <input type="checkbox"/> §50.47(b)(14) – Drills and Exercises <input type="checkbox"/> §50.47(b)(15) – Emergency Responder Training <input type="checkbox"/> §50.47(b)(16) – Emergency Plan Maintenance <b>*Risk Significant Planning Standards</b> <input type="checkbox"/> The proposed activity does not impact a Planning Standard		<b>BLOCK 5</b>	
<b>Commitment Impact Determination:</b> <input type="checkbox"/> The activity <u>does</u> involve a site specific EP commitment Record the commitment or commitment reference: _____ <input checked="" type="checkbox"/> The activity <u>does not</u> involve a site specific EP commitment		<b>BLOCK 6</b>	
<b>Results:</b> <input type="checkbox"/> The activity <u>can</u> be implemented without performing a §50.54(q) effectiveness evaluation <input checked="" type="checkbox"/> The activity <u>cannot</u> be implemented without performing a §50.54(q) effectiveness evaluation		<b>BLOCK 7</b>	
Preparer Name: John Kaminski	Preparer Signature 	Date: 4/8/13	
Reviewer Name: RAY WATERMAN	Reviewer Signature 	Date: 4-8-13	

## §50.54(q) Effectiveness Evaluation Form

Activity Description and References:

BLOCK 1

Revision to RP/0/A/1000/009 REV 001

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*



Licensing Basis:

## 1. 10CFR50.47b.10, states:

"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."

## 2. 10CFR50 Appendix E IV.I states:

*I. Onsite Protective Actions During Hostile Action*

By June 20, 2012, for nuclear power reactor licensees, a range of protective actions to protect onsite personnel during hostile action must be developed to ensure the continued ability of the licensee to safely shut down the reactor and perform the functions of the licensee's emergency plan.

## 3. NUREG 0654 II.J.5 states:

Each licensee shall provide for a capability to account for all individuals onsite at the time of the emergency and ascertain the names of missing individuals within 30 minutes of the start of an emergency and account for all onsite individuals and continuously thereafter.

## 4. ONS Site Emergency Plan section II.J.5 &amp; 6 states:

Within thirty minutes of a Site Assembly, all persons at the Oconee Nuclear Station shall be accounted for and any person(s) determined to be missing from their control station, will be identified by name. To assist in the location of missing person(s), the Emergency Coordinator will appoint a Search and Rescue Team. Search procedures will be coordinated through the Operational Support Center.

After all non-essential personnel have been evacuated from the site, logsheets will be kept by Radiation Protection personnel in the Operational Support Center of all persons onsite together with their Radiation Protection records to include the following:

- a. Individual respiratory protection
- b. Protective clothing
- c. Use of Radio-protective drugs

During hostile threat conditions personnel accountability is performed in accordance with AP/0/A/1700/045, "Site Security Threats" and RP/0/A/1000/009, "Procedure for Site Assembly".



**Compliance Evaluation and Conclusion:****BLOCK 4**1. Evaluation:

The procedure for implementing accountability continues to meet the requirements of 10 CFR 50.47b.10, 10 CFR 50 Appendix E, and the functions and elements of NUREG 0654. The change continues to provide the implementing details for conducting accountability. The change provided clarification for when accountability is required with appropriate consideration for hostile action events.

Conclusion:

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

**Reduction in Effectiveness (RIE) Evaluation and Conclusion:****BLOCK 5**1. Evaluation:

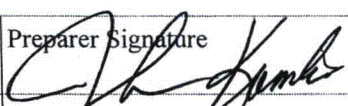
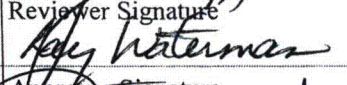
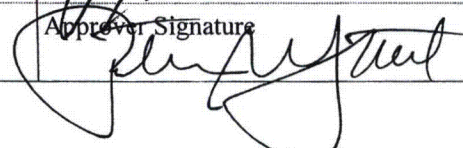
The change continues to ensure that the functions and elements as described in NUREG 0654 II.J. The change provides for increased clarity for when to conduct accountability during hostile action events. The information previously contained within the procedure did not provide sufficient information as to when accountability should be conducted. The change continues to comply with requirements of the regulations and continues to implement the requirements of the ONS Site Emergency 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: John Kaminski	Preparer Signature 	Date: 4/8/13
Reviewer Name: Ray Waterman	Reviewer Signature 	Date: 4-8-13
Approver Name: Bret M. Stigert	Approver Signature 	Date: 4/15/13

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

Procedure No.

**RP/0/A/1000/019**

Revision No.

**001**

Electronic Reference No.

**OP009A62**

**Reference Use**

**PERFORMANCE**

This Procedure was printed on 04/04/13 at 08:23:03 from the electronic library as:

**(ISSUED) - PDF Format**

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

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

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

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

Date(s) Performed

Work Order/Task Number (WO#)

**COMPLETION**

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

Verified By\*

Date

Procedure Completion Approved\*

Date

*\*Printed Name and Signature*

Remarks (attach additional pages, if necessary)

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

Printed Date: \*04/04/2013\*

Enclosure No.: \*FULL\*



Revision No.: \*001\*



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



Duke Energy  
**PROCEDURE PROCESS RECORD**

(1) ID No. RP/0/A/1000/019Revision No. 001**PREPARATION**

- (2) Station OCONEE NUCLEAR STATION
- (3) Procedure Title Technical Support Center Emergency Coordinator Procedure
- (4) Prepared By\* John Kaminski (Signature) [Signature] Date 03/20/2013
- (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\* Ray Waterman / Ray Waterman (QR)(KI) Date 3-25-13  
 Cross-Disciplinary Review By\* \_\_\_\_\_ (QR)(KI) NARAD Date 3-25-13  
 Reactivity Mgmt Review By\* \_\_\_\_\_ (QR) NARAD Date 3-25-13  
 Mgmt Involvement Review By\* \_\_\_\_\_ (Ops. Supt.) NARAD Date 3-25-13
- (7) Additional Reviews  
 Reviewed By\* \_\_\_\_\_ Date \_\_\_\_\_  
 Reviewed By\* \_\_\_\_\_ Date \_\_\_\_\_
- (8) Approved By\* PATRICK M STROSSI / [Signature] Date 4/3/13

**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)

## Technical Support Center Emergency Coordinator Procedure

**NOTE:** This procedure is an implementing procedure to the Oconee Nuclear Station Emergency Plan and must be forwarded to Emergency Planning within seven (7) working days of approval.

### 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.

	<u>NAME</u>
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/OSC Activation).

- ☐ 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 Request 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. TSC/OSC activation time {7}
    - ☐ C. "Anyone who has consumed alcohol within the past five (5) hours notify either the Emergency Coordinator in the TSC or the OSC Manager in the OSC."
    - ☐ 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 you may now return to your normal work assignments. I repeat.... you 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}

	<u>NAME</u>	<u>TELEPHONE NUMBERS</u>
SDEM	_____	9(803) 737-8500
2.8.1	Inform the TSC Offsite Communicator whenever the SEOC is activated.	
2.8.2	<b><u>IF</u></b> The SEOC has <b><u>NOT</u></b> been activated,	
	<b><u>THEN</u></b> 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.

(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. {18}

☐ C. 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}

☐ D. **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}

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

	<u>NAME</u>	<u>TELEPHONE NUMBERS</u>
SDEM _____		9(803) 737-8500
Oconee CDEM _____		9(864) 638-4200
Pickens CDEM _____		9(864) 898-5943

☐ F. **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. 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}

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

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

- ☐ F. 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 NUMBERS</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}

- ☐ G. **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 2.10.3, Site Area Emergency Classification on next page)

- ☐ H. 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.

- ☐ 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. 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}

- ☐ 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 SDEM and CDEM {10}

NAMETELEPHONE NUMBERS

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

- ☐ H. **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}

- ☐ I. **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. 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}

- ☐ E. Notify NRC of event classification/Security event.
- ☐ F. Start ERDS (TSC NRC Communicator - RP/0/B/1000/003A (ERDS Operation))



- ☐ G. 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 NUMBERS</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

- ☐ H. **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}

- ☐ I. **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.

☐ 3.3 **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 Director to evacuate the World of Energy.
- 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 AP/1,3/A/1700/018 (Abnormal Release of Radioactivity).

- ☐ 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 AP/1,3/A/1700/018 (Abnormal Release of Radioactivity).

- ☐ 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/OSC Activation).

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

**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)
- ☐ 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.
- 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 Obtain approval of a Licensed Senior Reactor Operator prior to taking any action.
- ☐ 3.13.2 Document decision and actions taken in the affected units log.
- ☐ 3.13.3 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.

- ☐ 3.13.4 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.
- ☐ 3.20    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/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			Auxiliary Power From			Auxiliary Power From		
ES Channels Actuated			ES Channels Actuated			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**

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**1. Emergency Preparedness Acronyms**

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

Enclosure  
TSC Personnel Log

RP/0/A/10/19  
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  
TSC Personnel Log

RP/0/A/10/19  
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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**

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

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 the OSC and Security using Speed Dial Code 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/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.

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.

- ☐ 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:

\_\_\_\_\_ (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.

**Enclosure 4.7**  
**Keowee Hydro Project Dams/Dikes -**  
**Condition A/B Descriptions**

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

- 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

## Enclosure 4.9

RP/0/A/1000/019

## Emergency Coordinator Turnover Checklist Page 1 of 2

( ) CATAWBA

( ) MCGUIRE

( ) OCONEE

UNIT(S) AFFECTED:

( ) Unit 1

( ) Unit 2

( ) Unit 3

{8}

GENERAL	DATE: _____	Power Level	Reactor Coolant Temperature	Reactor Coolant Pressure	
	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	FIELD MON. TEAMS	NUMBER ASSEM. _____	NUMBER DEPLOYED _____		
		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 <sup>2</sup> IGNITERS TRAIN A		_____	_____	
	H <sup>2</sup> 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)

**Enclosure 4.10**  
**Guidelines for Managing A Security Event**

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

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**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.

**References**

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



**Enclosure 4.11**

**References**

RP/0/A/1000/019

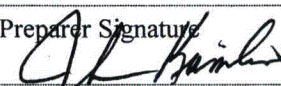
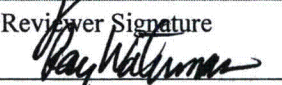
Page 2 of 2

25. PIP G-11-1389

26. PIP G-12-1530

27. PIP O-12-3002

## §50.54(q) Screening Evaluation Form

<b>Activity Description and References:</b> RP/0/A/1000/019 Rev 001, Technical Support Center Emergency Coordinator Procedure		<b>BLOCK 1</b>	
See attached sheet for all changes pertaining to this procedure.			
<b>Activity Scope:</b> <input type="checkbox"/> The activity <u>is</u> a change to the emergency plan <input checked="" type="checkbox"/> The activity <u>is not</u> a change to the emergency plan		<b>BLOCK 2</b>	
<b>Change Type:</b> <input type="checkbox"/> The change <u>is</u> editorial or typographical <input checked="" type="checkbox"/> The change <u>is not</u> editorial or typographical	<b>BLOCK 3</b>	<b>Change Type:</b> <input type="checkbox"/> The change <u>does</u> conform to an activity that has prior approval <input checked="" type="checkbox"/> The change <u>does not</u> conform to an activity that has prior approval	<b>BLOCK 4</b>
<b>Planning Standard Impact Determination:</b> <input type="checkbox"/> §50.47(b)(1) – Assignment of Responsibility (Organization Control) <input type="checkbox"/> §50.47(b)(2) – Onsite Emergency Organization <input type="checkbox"/> §50.47(b)(3) – Emergency Response Support and Resources <input type="checkbox"/> §50.47(b)(4) – Emergency Classification System* <input checked="" type="checkbox"/> §50.47(b)(5) – Notification Methods and Procedures* <input type="checkbox"/> §50.47(b)(6) – Emergency Communications <input type="checkbox"/> §50.47(b)(7) – Public Education and Information <input type="checkbox"/> §50.47(b)(8) – Emergency Facility and Equipment <input type="checkbox"/> §50.47(b)(9) – Accident Assessment* <input type="checkbox"/> §50.47(b)(10) – Protective Response* <input type="checkbox"/> §50.47(b)(11) – Radiological Exposure Control <input type="checkbox"/> §50.47(b)(12) – Medical and Public Health Support <input type="checkbox"/> §50.47(b)(13) – Recovery Planning and Post-accident Operations <input type="checkbox"/> §50.47(b)(14) – Drills and Exercises <input type="checkbox"/> §50.47(b)(15) – Emergency Responder Training <input type="checkbox"/> §50.47(b)(16) – Emergency Plan Maintenance <b>*Risk Significant Planning Standards</b> <input type="checkbox"/> The proposed activity does not impact a Planning Standard		<b>BLOCK 5</b>	
<b>Commitment Impact Determination:</b> <input type="checkbox"/> The activity <u>does</u> involve a site specific EP commitment Record the commitment or commitment reference: _____ <input checked="" type="checkbox"/> The activity <u>does not</u> involve a site specific EP commitment		<b>BLOCK 6</b>	
<b>Results:</b> <input type="checkbox"/> The activity <u>can</u> be implemented without performing a §50.54(q) effectiveness evaluation <input checked="" type="checkbox"/> The activity <u>cannot</u> be implemented without performing a §50.54(q) effectiveness evaluation		<b>BLOCK 7</b>	
Preparer Name: John Kaminski	Preparer Signature: 	Date: 3/20/13	
Reviewer Name: Ray Waterman	Reviewer Signature: 	Date: 3-25-13	

**§50.54(q) Effectiveness Evaluation Form****Activity Description and References:** Click here to enter text.**BLOCK 1**

Added Note to step 2.1.4 which states:

- 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.

**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

1. 10CFR50.47b.5
- 10CFR50.47b.6
- 10CFR50 Appendix E.IV.D.3
4. NUREG 0654 II.E.1, E.2, E.3, E.4
5. NUREG 0654 II.F.1a, F.1b, F.1c, F.1d,
6. ONS Site Emergency Plan Section E.1, E.2, E.3, E.4 Notification Rev 2008-02
7. ONS Site Emergency Plan Section F.1, F.1a, F.1b, F.1d, Communications Rev 12-05

### Licensing Basis:

1. 10CFR50.47b.5 states: Procedures have been established for notification, by the licensee, of State and local response organizations and for notification of emergency personnel by all organizations; the content of initial and 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.
2. 10CFR50.47b.6 states: Provisions exist for prompt communications among principal response organizations to emergency personnel and to the public.
3. 10CFR50 Appendix E.IV.D.3 states: 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.
4. NUREG 0654 II.E states: 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.
  - a. NUREG 0654 II.E.1 states: Each organization shall establish procedures which describe mutually agreeable bases for notification of response organizations consistent with the emergency classification and action level scheme set forth in Appendix 1. These procedures shall include means for verification of messages. The specific details of verification need not be included in the plan.
  - b. NUREG 0654 II.E.2 states: Each organization shall establish procedures for alerting, notifying, and mobilizing emergency response personnel.
  - c. NUREG 0654 II.E.3 states: The licensee in conjunction with State and local organizations shall establish the contents of the initial emergency messages to be sent from the plant. These measures shall contain information about the class of emergency, whether a release is taking place, potentially affected population and areas, and whether protective measures may be necessary.
  - d. NUREG 0654 II.E.4 states: Each licensee shall make provisions for follow-up messages from the facility to offsite authorities which shall contain the following information if it is known and appropriate.
5. NUREG 0654 II.F.1 states: Provisions exist for prompt communications among principal response organizations to emergency personnel and to the public.

- a. NUREG 0654 II.F.1.a states: provision for 24-hour per day notification to and activation of the State/local emergency response network; and at a minimum, a telephone link and alternate, including 24- hour per day manning of communications links that initiate emergency response actions
  - b. NUREG 0654 II.F.1.b states: provision for communications with contiguous State/local governments within the Emergency Planning Zones
  - c. NUREG 0654 II.F.1.c states: provision for communications as needed with Federal emergency response
  - d. NUREG0654 II.F.1.d. states: provision for communications between the nuclear facility and the licensee's near-site Emergency Operations Facility, State and local emergency operations centers, and radiological monitoring teams.
6. ONS Site Emergency Plan Section E. Notification Rev 2008-02, section E.1 and E.2 state: organizations that is consistent with the emergency classification and action level scheme. An Emergency Organization Recall has been developed for the augmentation of support during an emergency situation. Figures A-2A and A-2B illustrate the methods used by the Operations Shift Manager/Emergency Coordinator to activate the Emergency Response Organization.

ONS Site Emergency Plan Section E. Notification Rev 2008-02, section E.3 and E.4 state: 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.

- 7 ONS Site Emergency Plan Chapter F. Communications Rev 12-05, section F.1 states: The Emergency Response Organization has been developed in such a manner to list primary and alternate personnel. Primary and backup means of communication between the Site, local government agencies, and State response organizations have been established.

ONS Site Emergency Plan Chapter F Communications Rev 12-05, section F.1a, states: Calls to activate State/County agency's emergency function are the responsibility of the Operations Shift Manager/Emergency Coordinator. These calls are made:

1. By selective signaling phone system (where applicable).
2. The site telephone system to a 24-hour emergency number.

Some agencies have numbers for designated work schedules. Numbers can be found in the Emergency Telephone Directory. A back-up radio system provides alternate communications with Oconee and Pickens Counties emergency response organizations.

ONS Site Emergency Plan Chapter F Communications Rev 12-05, section F.1b, states: On a monthly basis, a communication check is made to state and local government warning points within the Emergency Planning Zone. Communications during an emergency situation would be by selective signaling phone system, site telephone system/commercial phone service, or by radio (where appropriate).



ONS Site Emergency Plan Chapter F Communications Rev 12-05 section F.1c states: The EOF organization has the responsibility to ask for federal response. However, communication with the Nuclear Regulatory Commission from the emergency response facilities, would be by use of the Emergency Telecommunication System (ETS) located in the Control Room areas, Technical Support Center, or the Emergency Operations Facility.

ONS Site Emergency Plan Chapter F. Communications Rev 12-05, section F.1d states: The Emergency Response Organization has the following communications systems available for use during emergencies... (and lists all the various communications means available on site).

#### Compliance Evaluation and Conclusion:

BLOCK 4

##### 1. Evaluation:

This change adds clarifying information on how offsite communications may be performed, including the use of GETS card, the location of these cards, provides a reference for prioritizing communications methods and also provides a location for satellite phones. The change does not change the Process for Notification, and does not change the information to be communicated to the offsite agencies. The change does impact the methods to be used to Communicate with offsite agencies by providing additional means of making those communications. The addition of the note lists added means to communicate and therefore provide additional assurance of the ability to communicate when required. Therefore this change continues to assure compliance with 10CFR50.47 and 10CFR Appendix E as well as NUREG 0654 II.E. and II.F

##### Conclusion:

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

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

BLOCK 5

##### 1. Evaluation:

The requirements of 10CFR50.47b.5 and b.6, as well as all of the functions and elements of NUREG 0654 II.E and II.F continue to be met. The addition of a note to the procedure listing added means for communicating provides additional assurance of meeting the functions and elements of NUREG 0654. Therefore by providing additional means to assure communications ability there is no reduction in effectiveness as a result of this change.



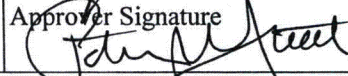
##### Conclusion:

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

#### Effectiveness Evaluation Results

BLOCK 6

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

Preparer Name: John Kaminski	Preparer Signature 	Date: 3/25/13
Reviewer Name: Ray Waterman	Reviewer Signature 	Date: 3/25/13
Approver Name: Pat Street	Approver Signature 	Date: 4/3/13

Duke Energy  
Oconee Nuclear Station  
**Protective Action Recommendations**

Procedure No.

**RP/0/A/1000/024**

Revision No.

**000**

Electronic Reference No.

**OP009A87**

**Reference Use**

**PERFORMANCE**

This Procedure was printed on 04/16/13 at 13:33:47 from the electronic library as:

**(ISSUED) - PDF Format**

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

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

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

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

Date(s) Performed

Work Order/Task Number (WO#)

**COMPLETION**

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

Verified By\*

Date

Procedure Completion Approved\*

Date

*\*Printed Name and Signature*

Remarks (attach additional pages, if necessary)

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

Printed Date: \*04/16/2013\*

Enclosure No.: \*FULL\*



Revision No.: \*000\*



Procedure No.: \*RP/0/A/1000/024\*



Duke Energy  
**PROCEDURE PROCESS RECORD**

(1) ID No. RP/0/A/1000/024Revision No. 000**PREPARATION**(2) Station OCONEE NUCLEAR STATION(3) Procedure Title Protective Action recommendations(4) Prepared By\* Don Crowl (Signature) [Signature] Date 4-8-13

(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\* Ray Waterman / Ray Waterman (QR)(KI) Date 4-8-13Cross-Disciplinary Review By\* [Signature] (QR)(KI) NA Date 4-8-13Reactivity Mgmt Review By\* [Signature] (QR) NA Date 4-8-13Mgmt Involvement Review By\* [Signature] (Ops. Supt.) NA Date 4-8-13

(7) Additional Reviews

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

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

(8) Approved By\* Patricia M. Stagg / [Signature] Date 4/15/13**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)



## Protective Action Recommendations

**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 intended to provide a means to quickly determine protective actions for radiological accidents at Oconee Nuclear Station by the Emergency Coordinator in the Technical Support Center or the EOF Director in the Emergency Operations Facility.

### 1. Symptoms

- 1.1 General Emergency Declared

### 2. Immediate Action

**NOTE:** Technical Support Center and Emergency Operations Facility may use HP/0/B/1009/018, (Offsite Dose Projections), to determine sectors.

- |           |         |     |   |
|-----------|---------|-----|---|
| _____     | _____   | 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 and wind speed every <b>15 minutes</b> to determine if additional downwind sectors 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.

- |   |   |
|---|---|
| <div style="display: flex; justify-content: space-between;"> <div style="border-bottom: 1px solid black; width: 100px;"></div> <div style="border-bottom: 1px solid black; width: 100px;"></div> </div> <div style="display: flex; justify-content: space-between; font-size: small;"> <span>Date/Time</span> <span>Initial</span> </div> | 3.1 Evaluate fuel and containment status (building pressure and/or containment breach).       |
| <div style="display: flex; justify-content: space-between;"> <div style="border-bottom: 1px solid black; width: 100px;"></div> <div style="border-bottom: 1px solid black; width: 100px;"></div> </div> <div style="display: flex; justify-content: space-between; font-size: small;"> <span>Date/Time</span> <span>Initial</span> </div> | 3.2 Assess fuel damage. Request Nuclear Engineering in the TSC to provide the assessment.     |
| <div style="display: flex; justify-content: space-between;"> <div style="border-bottom: 1px solid black; width: 100px;"></div> <div style="border-bottom: 1px solid black; width: 100px;"></div> </div> <div style="display: flex; justify-content: space-between; font-size: small;"> <span>Date/Time</span> <span>Initial</span> </div> | 3.3 Review evacuation time estimates for the EPZ, Enclosure 4.3, (Evacuation Time Estimates). |

**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) 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 speed/wind direction)

- |   |  |
|---|--|
| <div style="display: flex; justify-content: space-between;"> <div style="border-bottom: 1px solid black; width: 100px;"></div> <div style="border-bottom: 1px solid black; width: 100px;"></div> </div> <div style="display: flex; justify-content: space-between; font-size: small;"> <span>Date/Time</span> <span>Initial</span> </div> | A. Additional protective actions as recommended by the TSC Dose Assessment Liaison or EOF Radiological Assessment Manager utilizing HP/0/B/1009/018, (Offsite Dose Projections). |
|---|--|

3.4.2 Fuel Damage detected by Monitors

- |   |  |
|---|--|
| <div style="display: flex; justify-content: space-between;"> <div style="border-bottom: 1px solid black; width: 100px;"></div> <div style="border-bottom: 1px solid black; width: 100px;"></div> </div> <div style="display: flex; justify-content: space-between; font-size: small;"> <span>Date/Time</span> <span>Initial</span> </div> | A. Additional protective actions as recommended by the TSC Dose Assessment Liaison or EOF Radiological Assessment Manager utilizing HP/0/B/1009/018, (Offsite Dose Projections). |
|---|--|

3.4.3 Potassium Iodide for the General Public.

<u>          </u>	<u>          </u>	A. Potassium Iodide recommended to the General Public as determined by the TSC Dose Assessment Liaison or EOF Radiation Assessment Manager utilizing HP/0/B/1009/018 (Offsite Dose Projections). {1}
Date/Time	Initial	

3.4.4 Severe core damage (Condition 2 failed fuel per RP/0/B/1000/18, (Core Damage Assessment)) or Enclosure 4.4, (Condition 2 Failed Fuel Determination By RIA Containment Monitor Readings). {2}

<u>          </u>	<u>          </u>	A. Evacuate 5 mile radius and 10 miles downwind.
Date/Time	Initial	

1. TSC Dose Assessment Liaison or EOF Radiological Assessment Manager shall be responsible for determining the sectors to be evacuated and sheltered.

<u>          </u>	<u>          </u>	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.
Date/Time	Initial	

3.5.1 Provide any updated protective action recommendations to offsite agencies.

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.

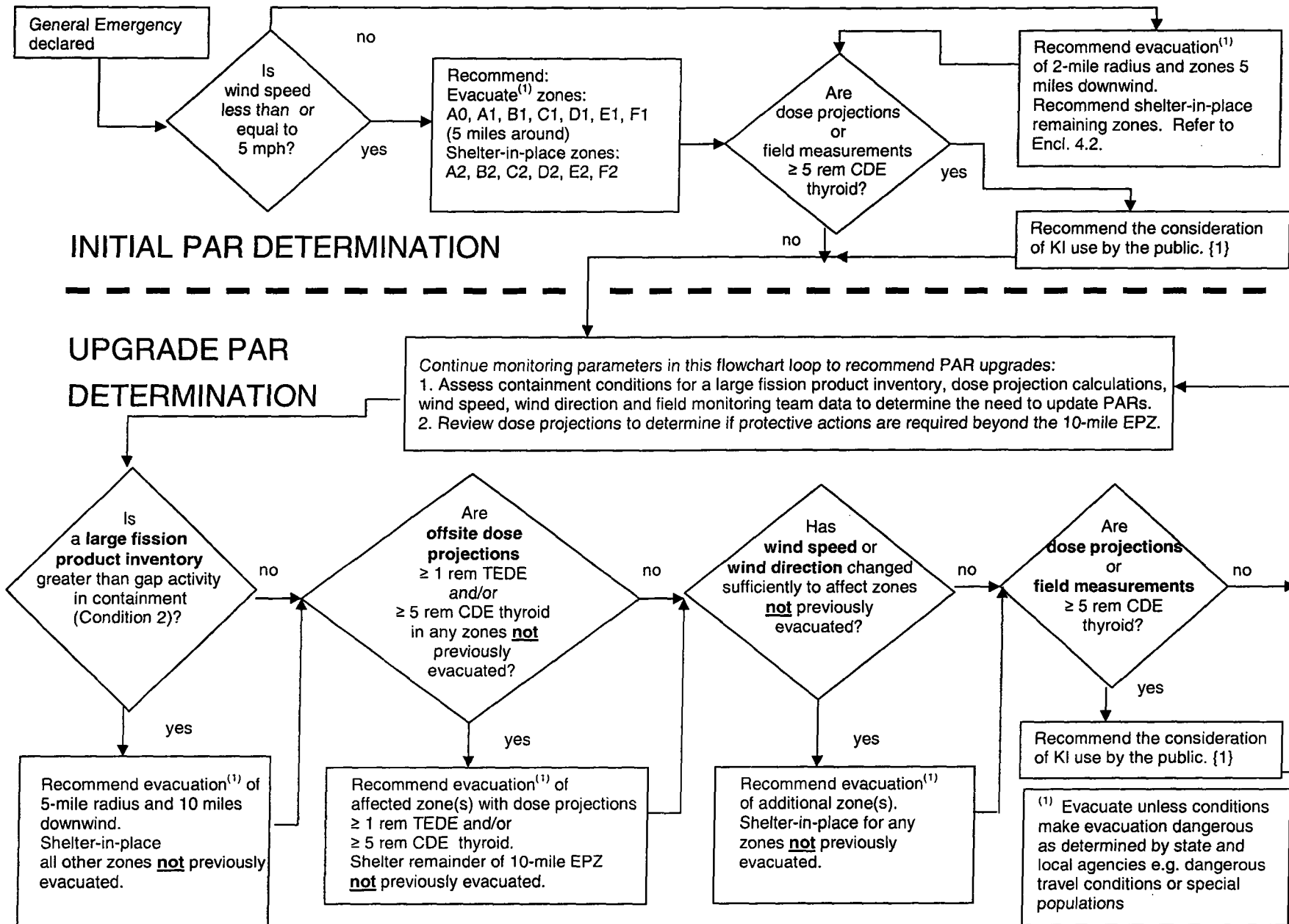
<u>          </u>	<u>          </u>	3.6.1 <b><u>IF</u></b> protective action recommendations are required beyond 10 miles,
Date/Time	Initial	

**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 Sectors To Be Potentially Evacuated
- 4.3 Evacuation Time Estimates
- 4.4 Condition 2 Failed Fuel Determination By RIA Containment Monitor Readings
- 4.5 References

## Protective Action Recommendations Flowchart



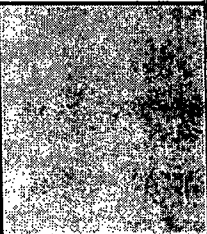
**Enclosure 4.2**  
**Sectors To Be Potentially Evacuated**

RP/0/A/1000/024  
Page 1 of 3

**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 (9-704-382-0139 or 9-704-373-7896)  
C. National Weather Service in Greer, S.C. (9-864-879-1085 or 9-800-268-7785)

Time of Day Conditions	Met Parameter	First Priority	Second Priority	Third Priority	Fourth Priority
1000 - 1600	Wind Speed	10M reading	River Tower	60M reading times 0.5	NWS* times 0.5
	Wind Direction	60M reading	10M reading	River Tower	NWS
1600 – 1000 and River Wind between 210° and 360° or 0° and 70°	Wind Speed	10M reading	60M reading times 0.5	River Tower	NWS* times 0.5
	Wind Direction	60M reading	10M reading	River Tower	NWS
1600 – 1000 and River Wind between 70° and 210°	Wind Speed	River Tower	10M reading times 0.5	NWS* times 0.5	
	Wind Direction	River Tower	60M reading	NWS	

\* Conversion factors for NWS data:

Mph= 1.15 knots

°C = .555(°F – 32)

\_\_\_\_\_ Record Meteorological Parameters to be used to determine PARs:

Wind Speed \_\_\_\_\_  
Wind Direction \_\_\_\_\_

**Enclosure 4.2**  
**Sectors To Be Potentially Evacuated**

RP/0/A/1000/024  
Page 2 of 3

- ☐ 1.2 Determine PARs based on the 15-minute average wind speed and 15-minute average wind direction as determined in previous step:

**WIND SPEED LESS THAN OR EQUAL TO 5 MPH**

Evacuate zones: A0, A1, B1, C1, D1, E1, F1 (5-Mile Radius)

**AND**

Shelter-in-place zones: A2, B2, C2, D2, E2, F2

**OR**

**WIND SPEED GREATER THAN 5 MPH**

<b>Wind Direction</b> (Degrees from North)	<b>Evacuate</b> 2-Mile Radius and 5 Miles Downwind	<b>Shelter</b> Remaining Sectors
14.1° - 27°	A0, C1,D1,E1	A1, A2, B1,B2, C2, D2, E2, F1,F2
27.1° - 42°	A0, C1,D1,E1	A1, A2, B1,B2, C2, D2, E2, F1,F2
42.1° - 66°	A0, D1, E1	A1, A2, B1 B2, C1, C2, D2, E2, F1, F2
66.1° - 85°	A0, D1, E1	A1, A2, B1 B2, C1, C2, D2, E2, F1, F2
85.1° - 104°	A0, D1, E1, F1	A1, A2, B1, B2, C1, C2, D2, E2, F2
104.1° - 129°	A0, E1, F1	A1, A2, B1, B2, C1, C2, D1, D2, E2, F2
129.1° - 156°	A0, A1, E1, F1	A2, B1, B2, C1, C2, D1, D2, E2, F2
156.1° - 175°	A0, A1, E1, F1	A2, B1, B2, C1, C2, D1, D2, E2, F2
175.1° - 181°	A0, A1, F1	A2, B1, B2, C1, C2, D1, D2, E1, E2, F2
181.1° - 219°	A0, A1, B1, F1	A2, B2, C1, C2, D1, D2, E1, E2, F2
219.1° - 255°	A0, A1, B1	A2, B2, C1, C2, D1, D2, E1, E2, F1, F2
255.1° - 271°	A0, A1, B1, C1	A2, B2, C2, D1, D2, E1, E2, F1, F2
271.1° - 297°	A0, B1, C1	A1, A2, B2, C2, D1, D2, E1, E2, F1, F2
297.1° - 312°	A0, B1, C1	A1, A2, B2, C2, D1, D2, E1, E2, F1, F2
312.1° - 345°	A0, B1, C1, D1	A1,A2, B2, C2, D2, E1, E2, F1, F2
345.1° - 14°	A0, C1, D1	A1, A2, B1, B2, C2, D2, E1, E2, F1, F2

## Enclosure 4.2

### Sectors To Be Potentially Evacuated

RP/0/A/1000/024  
Page 3 of 3

- 1.3 Check the appropriate blocks below for the appropriate sectors to evacuate and to shelter. All sectors not evacuated must be sheltered.

[illegible]



# **Enclosure 4.3** **Evacuation Time Estimate**

RP/0/A/1000/024  
Page 1 of 1

				Evacuation Time (minutes) <sup>3</sup>					
				Fair Weather			Adverse Weather <sup>4</sup>		
Analysis Case	Approx. Distance (Miles)	Approx. Direction	Subareas Included <sup>5</sup>	Winter Weekday	Winter Weeknight	Summer Weekend	Winter Weekday	Winter Weeknight	Summer Weekend
1	0-2	180°, E	A-0 <sup>1</sup>	160	160	160	160	160	160
2	0-2	180°, W	A-0 <sup>2</sup>	160	160	160	160	160	160
3	0-5	90°, NE	A-0 <sup>1</sup> , A-1	180	180	180	180	180	180
4	0-5	90°, SE	A-0 <sup>1</sup> , B-1, C-1	160	160	160	160	160	160
5	0-5	90°, NW	A-0 <sup>2</sup> , E-1, F-1	160	160	160	180	180	180
6	0-5	90°, SW	A-0 <sup>2</sup> , D-1	160	160	160	180	180	160
7	0-10	90°, NE	A-0 <sup>1</sup> , A-1, A-2	180	180	180	200	200	200
8	0-11	90°, SE	A-0 <sup>1</sup> , B-1, C-1, B-2, C-2	200	180	180	260	200	200
9	0-12	90°, NW	A-0 <sup>2</sup> , E-1, F-1, E-2, F-2	200	200	200	220	220	200
10	0-13	90°, SW	A-0 <sup>2</sup> , D-1, D-2	215	200	200	270	225	215
11	0-14	180°, E	Pickens County - A-0 <sup>1</sup> , A-1, B-1, C-1, A-2, B-2, C-2	200	180	180	260	200	200
12	0-13	180°, W	Oconee County - A-0 <sup>2</sup> , D-1, E-1, F-1, D-2, E-2, F-2	215	200	200	270	225	215
13	0-14	360°	Entire EPZ - A-0 <sup>1</sup> , A-0 <sup>2</sup> , A-1, B-1, C-1, A-2, B-2, C-2, D-1, E-1, F-1, D-2, E-2, F-2	215	200	200	270	225	215

<sup>1</sup> Pickens County portion of Subareas A-0.

<sup>2</sup> Oconee County portion of Subareas A-0.

<sup>3</sup> Includes times associated with notification, preparation and travel out of the EPZ area, rounded to nearest 5-minute interval.

Evacuation of outdoor transient facilities throughout the entire EPZ is included in all evacuation cases, per the offsite RERP's.

<sup>4</sup> Reduction in roadway capacities and travel speeds of 20% for summer weekend conditions (rain), 30% for winter weekday and winter weeknight conditions (ice).

**NOTE:** Subareas = Sectors

Condition 2 Failed Fuel Determination By RIA Page 1 of 1  
Containment Monitor Readings

**NOTE:** IF the containment radiation level exceeds the levels in the RIA Containment Monitor Reading Table below, fission product inventory inside containment is greater than gap activity.

**RIA Containment Monitor Reading Table**

Time After Shutdown (Hours)	RIA-57 Containment Monitor Reading (R/HR) (100% gap activity release)	RIA-58 Containment Monitor Reading (R/HR) (100% gap activity release)
>0-2	2000	969
>2-4	1500	650
>4-8	750	370
>8	275	125

**1. References**

1. O-04-0284
2. O-05-07899

## §50.54(q) Screening Evaluation Form

**Activity Description and References:** Nuclear Communications Emergency Response Plan, RP/0/A/1000/024 rev 0

BLOCK 1

**Activity Description;**

To align our E-Plan Implementing Procedures with NSD 703 permanent technical procedures requirements as determined by PIP O-12-1590, ONS Emergency Planning will revise the procedure titles (as procedure revisions become necessary) to incorporate the Safety Classification to "A" instead of "B".

**Reason for Change:**

NSD 703.5.1, permanent technical procedures are used to direct station activities during operating, testing, refueling, maintenance, and modifications. These procedures provide guidance for activities that are of repetitive nature, or when conditions requiring the procedure may occur in the future and the procedure is essential if the situation occurs.

**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**

*This title change is a result of an INOS PIP O-12-1590 making the determination that NSD 703 section 5.1 requires all Emergency Response Procedures to be permanent technical procedure thus resulting in all ONS E-Plan Implementing Procedure having a Safety Classification designation letter of "A" and not "B" in the ID number of that procedure. This title revision in no way compromises the contents of the procedure or its effectiveness of use during an emergency event. Nor does this title ID change affect the required review period for this procedure of every 6 years. It has been determined that this revision will not reduce the effectiveness of this emergency response procedure. The revision to the step number is an editorial change only. No changes to content or intent. This revision does not require a 5054Q effectiveness evaluation due to a reduction in the effectiveness of the E-Plan.*

☒ 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:

Don Crowl

Preparer Signature

Date:

4-8-13

Reviewer Name:

Ray Waterman

Reviewer Signature

Ray Waterman

Date:

4-8-13

Revision 12



## §50.54(q) Screening Evaluation Form

## Activity Description and References: Protective Actions Recommendations

RP/0/B/1000/024 revision 8 Superseded

BLOCK 1

## Activity Description:

- 1) To align our E-Plan Implementing Procedures with NSD703 permanent technical procedure requirements as determined by PIP O-12-1590, ONS Emergency Planning will revise the procedure titles (as procedure revisions become necessary) to incorporate the Safety Classification to "A" instead of "B".

## Reason for Change:

- 1) NSD 703.5.1, Permanent technical procedures are used to direct station activities during operating, testing, refueling, maintenance, and modifications. These procedures provide guidance for activities that are of a repetitive nature, or when conditions requiring the procedure may occur in the future and the procedure is essential if the situation occurs. Permanent technical procedures are designated in the procedure number as follows:

## Procedure Type Abbreviation

Emergency Response Procedures RP

RP/0/B/1000/024 revision 8 will be superseded and replaced with RP/0/A/1000/024 rev 0

This will not reduce the effectiveness of the E-Plan.

## 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

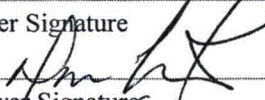
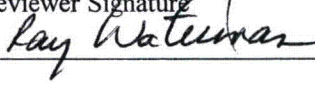
**Commitment Impact Determination:****BLOCK 6**

- ☐ 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**

*This title change is a result of an INOS PIP O-12-1590 making the determination that NSD 703 section 5.1 requires all Emergency Response Procedures to be permanent technical procedure thus resulting in all ONS E-Plan Implementing Procedure having a Safety Classification designation letter of "A" and not "B" in the ID number of that procedure. This title revision in no way compromises the contents of the procedure or its effectiveness of use during an emergency event. Nor does this title ID change affect the required review period for this procedure of every 6 years. It has been determined that this revision will not reduce the effectiveness of this emergency response procedure. The revision to the step number is an editorial change only. No changes to content or intent. This revision does not require a 5054Q effectiveness evaluation due to a reduction in the effectiveness of the E-Plan.*

- ☒ 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: Don Crowl	Preparer Signature 	Date: 03/25/13
Reviewer Name: Ray Waterman	Reviewer Signature 	Date: 4-1-13

Duke Energy  
Oconee Nuclear Station  
**Nuclear Communications Emergency Response Plan**

Procedure No.  
**RP/0/A/1000/028**

Revision No.  
**000**

Electronic Reference No.  
**OP009A7Y**

**Reference Use**

**PERFORMANCE**

This Procedure was printed on 04/02/13 at 16:51:29 from the electronic library as:

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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: \*04/02/2013\*

Enclosure No.: \*FULL\*



Revision No.: \*000\*



Procedure No.: \*RP/0/A/1000/028\*





Duke Energy  
**PROCEDURE PROCESS RECORD**

(1) ID No. RP/0/A/1000/028Revision No. 000**PREPARATION**

- (2) Station OCONEE NUCLEAR STATION
- (3) Procedure Title Nuclear Communications Emergency Response Plan
- (4) Prepared By\* Don Crowl (Signature) [Signature] Date 3-18-13
- (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\* Ray Waterman / Ray Waterman (QR)(KI) Date 3-19-13  
 Cross-Disciplinary Review By\* \_\_\_\_\_ (QR)(KI) NA Date 3-19-13  
 Reactivity Mgmt Review By\* \_\_\_\_\_ (QR) NA Date 3-19-13  
 Mgmt Involvement Review By\* \_\_\_\_\_ (Ops. Supt.) NA Date 3-19-13
- (7) Additional Reviews  
 Reviewed By\* \_\_\_\_\_ Date \_\_\_\_\_  
 Reviewed By\* \_\_\_\_\_ Date \_\_\_\_\_
- (8) Approved By\* Patricia M. Stiles / Patricia M. Stiles Date 4/2/13

**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)

## **Nuclear Communications Emergency Response Plan**

### **1. Symptoms**

Conditions exist such that the Emergency Response Organization (ERO) has been activated. The Onsite Media Center can be staffed at the discretion of the Nuclear Communications Manager/News Manager. In all cases, the Nuclear Communications Emergency Response Plan will be activated at an Alert or higher emergency classification.

### **2. Immediate Actions**

2.1 Nuclear Communications Emergency Response Plan activation during normal working hours:

2.1.1 Nuclear Communications Manager/designee will determine staffing of the Onsite Media Center.

2.1.2 The nuclear site Vice President/alternate will serve as the Onsite Public Spokesperson.

2.2 Nuclear Communications Emergency Response Plan activation after hours, holidays and weekends:

2.2.1 The Nuclear Communications duty person is responsible for the following:

- Emergency Planning pager
- Fitness for Duty during rotation
- Contacting Nuclear Communications Manager/designee
- Reporting to or arranging Nuclear Communications support for the Onsite Media Center

2.2.2 The Nuclear Communications Manager/designee will determine staffing as necessary.

### **3. Subsequent Actions**

3.1 Respond as required by enclosures designated for the individual position.

### **4. Enclosures**

4.1 Onsite News Manager Activation Checklist

4.2 Onsite Public Spokesperson Activation Checklist

4.3 Nuclear Communications Staff Person Activation Checklist

**Enclosure 4.1**  
**Onsite News Manager Activation Checklist**

RP/0/A/1000/028  
Page 1 of 1

**Initials**

- \_\_\_\_\_ Put on position badge and sign in.
- \_\_\_\_\_ Obtain copy of ONS Emergency Response checklist located in the file cabinet in the onsite media center for guidance on media center activation.
- \_\_\_\_\_ Review contents of the Emergency Notification Form (ENF).
- \_\_\_\_\_ Determine if Corporate Media duty person has been provided the ENF.
- \_\_\_\_\_ Determine if contact with the Technical Support Center (TSC) and/or Emergency Operations Facility (EOF) Technical Liaison has been made.
- \_\_\_\_\_ Determine 24-hour staffing requirements.

**NOTE:** Telephone numbers for the EOF and Joint Information Center (JIC) are included in the JIC telephone directory located in the emergency file drawer.

- \_\_\_\_\_ Request additional resources, if needed, from Corporate Communications.
- \_\_\_\_\_ Serve as Company Spokesperson for media exchanges until relieved by the Onsite Public Spokesperson/alternate.
- \_\_\_\_\_ Assist Onsite Public Spokesperson to prepare for media.

**NOTE:** All information forms can be found on the JIC drive (\\charf01\ccr\_jic).

- \_\_\_\_\_ Serve as moderator for media interactions.
- \_\_\_\_\_ Establish communications with Technical Liaison conference line to resolve rumors identified during media briefings and interviews.
- \_\_\_\_\_ Document all decision making, phone calls and key contacts on log sheets.
- \_\_\_\_\_ Be prepared to leave the Onsite Media Center and relocate should plant condition warrant evacuation.

**Enclosure 4.2**  
**Onsite Public Spokesperson Activation**  
**Checklist**

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**Initials**

**NOTE:** The spokesperson may or may not be the VP. A spokesperson may be needed before an Alert level.

\_\_\_\_\_ Put on position badge and sign in.

\_\_\_\_\_ Review the Emergency Notification Form (ENF).

**NOTE:** Telephone numbers for the Emergency Operations Facility (EOF) and Joint Information Center (JIC) are included in the JIC telephone directory located in the emergency file drawer.

\_\_\_\_\_ Access the Technical Support Center (TSC) and/or EOF conference line to obtain current information if the News Manager is not available.

\_\_\_\_\_ Work with News Manager to prepare for media interactions.

**CAUTION:** Any reference to dose is to be based on actual dose at the site boundary.

\_\_\_\_\_ Monitor plant status, radiological information and other information via the TSC phone and EOF conference line.

\_\_\_\_\_ Review all approved statements, news releases and escalated rumor information prior to each media interaction.

\_\_\_\_\_ Address significant rumors about plant status and/or any misinformation revealed by media questions.

\_\_\_\_\_ Document decision making, phone calls and key contacts on log sheets.

\_\_\_\_\_ Be prepared to leave the Onsite Media Center and relocate should plant conditions warrant evacuation.

**Enclosure 4.3**  
**Nuclear Communications Staff Person**  
**Activation Checklist**

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**Initials**

- \_\_\_\_\_ **PUT** on position badge and sign in.
- \_\_\_\_\_ **CONTACT** Nuclear Communications Manager and confirm their response to the Onsite Media Center.
- \_\_\_\_\_ **SERVE** as Onsite News Manager until Nuclear Communications Manager arrives or if the Nuclear Communications Manager is not available.
- \_\_\_\_\_ **CONTACT** Corporate Communications to request a back up News Manager, if Nuclear Communications Manager is unavailable.

**NOTE:** Technical Support Center (TSC) personnel are to be used for clarifying information on the Emergency Notification Forms (ENFs) to ensure accuracy prior to media interactions and news release approvals.

- \_\_\_\_\_ **ESTABLISH** communications with the TSC.
- \_\_\_\_\_ **ESTABLISH** communications with the EOF.
- \_\_\_\_\_ **CONTACT NUCLEAR DUTY/Corporate Media** duty person to check on the status of the initial news release.

**NOTE:** Activation activities may include but are not limited to, items on the administrative checklist.

- \_\_\_\_\_ **ASSIGN** activation activities to available staff.
- \_\_\_\_\_ **ENSURE** event status board is updated as needed.
- \_\_\_\_\_ **ENSURE** Onsite Media Center is setup for staff use.
- \_\_\_\_\_ **ENSURE** Security understands where to route media.

**CAUTION:** EPZ diagram and Reception Center Location charts are to be used only by state or EPZ county officials if present.

- \_\_\_\_\_ **ENSURE** auditorium is setup for media interactions.
- \_\_\_\_\_ **ENSURE** information is available for the media.

Enclosure 4.3  
Nuclear Communications Staff Person  
Activation Checklist

RP/0/A/1000/028  
Page 2 of 2

**CAUTION:** **DO NOT** allow media to enter any office area.

\_\_\_\_\_ **ENSURE** media are logged in, properly identified, and given assistance as needed.

**NOTE:** All forms can be found by accessing the Joint Information Center (JIC) drive at \\charf01\ccr\_jic if hard copies are not available.

\_\_\_\_\_ **OBTAIN** information forms from the JIC drive, **IF** hard copies are not available.

\_\_\_\_\_ **ENSURE** all visitor center phones are forwarded to the Customer Contact Center (CCC) at the News Manager's discretion.

\_\_\_\_\_ **DOCUMENT** all high level decision making, phone calls and key contacts on log sheets.

\_\_\_\_\_ **BE PREPARED** to leave the Onsite Media Center and relocate should plant conditions warrant evacuation.

## §50.54(q) Screening Evaluation Form

**Activity Description and References: Nuclear Communications Emergency Response Plan, RP/0/A/1000/028 rev 0**

BLOCK 1

**Activity Description;**

1) Added an additional Checklist Item to Enclosure 4.1 as follows:

"Obtain copy of ONS Emergency Response checklist located in the file cabinet in the onsite media center for guidance on media activation."

**Reason for Change:**

11) PIP O-11-15392, The latest revision date of each Emergency Plan Implementing Procedure and procedures that support Emergency Planning functions shall be reviewed and if the last revision date is greater than or equal to five years, a review of the procedure in accordance with NSD 703.11 shall be conducted by the group that owns the procedure. This revision is the only change request by the respective owner.

**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:

Don Crowl

Preparer Signature

Date:

3-18-13

Reviewer Name:

Ray Waterman

Reviewer Signature

Ray Waterman

Date:

3-19-13

Revision 12



## §50.54(q) Screening Evaluation Form

Activity Description and References: Nuclear Communications Emergency response  
 Plan revision 4 Superseded  
 Activity Description;

BLOCK 1

- 1) To align our E-Plan Implementing Procedures with NSD703 permanent technical procedure requirements as determined by PIP O-12-1590, ONS Emergency Planning will revise the procedure titles (as procedure revisions become necessary) to incorporate the Safety Classification to "A" instead of "B".

**Reason for Change:**

- 1) NSD 703.5.1, Permanent technical procedures are used to direct station activities during operating, testing, refueling, maintenance, and modifications. These procedures provide guidance for activities that are of a repetitive nature, or when conditions requiring the procedure may occur in the future and the procedure is essential if the situation occurs. Permanent technical procedures are designated in the procedure number as follows:

**Procedure Type Abbreviation**

Emergency Response Procedures RP

RP/O/B/1000/028 revision 04 will be superseded and replaced with RP/O/A/1000/028 rev 0

This will not reduce the effectiveness of the E-Plan.

**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**

*This title change is a result of an INOS PIP O-12-1590 making the determination that NSD 703 section 5.1 requires all Emergency Response Procedures to be permanent technical procedure thus resulting in all ONS E-Plan Implementing Procedure having a Safety Classification designation letter of "A" and not "B" in the ID number of that procedure. This title revision in no way compromises the contents of the procedure or its effectiveness of use during an emergency event. Nor does this title ID change affect the required review period for this procedure of every 6 years. It has been determined that this revision will not reduce the effectiveness of this emergency response procedure. The revision to the step number is an editorial change only. No changes to content or intent. This revision does not require a 5054Q effectiveness evaluation due to a reduction in the effectiveness of the E-Plan.*

- ☒ 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:  
Don Crowl

Preparer Signature

Date:  
03/18/13

Reviewer Name:

Reviewer Signature

Date:  
3/19/13