



Duke Energy

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W. R. McCollum, Jr.
Vice President

May 3, 2001

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

Subject: Oconee Nuclear Station
Docket Nos. 50-269, -270, -287
Emergency Plan Implementing Procedures Manual
Volume C Revision 2001-04

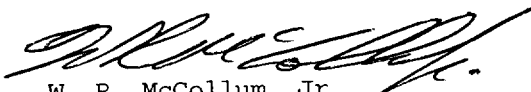
Please find attached for your use and review copies of the revision to the
Oconee Nuclear Station Emergency Plan: Volume C Revision 2001-04, May 2001.

This revision is being submitted in accordance with 10 CFR 50-54(q) and does
not decrease the effectiveness of the Emergency Plan or the Emergency Plan
Implementing Procedures.

Any questions or concerns pertaining to this revision please call Mike Thorne,
Emergency Planning Manager at 864-885-3210.

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

Very truly yours,



W. R. McCollum, Jr.
VP, Oconee Nuclear Site

xc: (w/2 copies of attachments)
Mr. Luis Reyes,
Regional Administrator, Region II
U. S. Nuclear Regulatory Commission
61 Forsyth St., SW, Suite 24T23
Atlanta, GA 30303

w/copy of attachments
Mr. Steven Baggett
Rockville, Maryland

(w/o Attachments, Oconee Nuclear Station)
NRC Resident Inspector
M. D. Thorne, Manager, Emergency Planning

A045

May 3, 2001

OCONEE NUCLEAR SITE
INTRASITE LETTER

SUBJECT: Emergency Plan Implementing Procedures
Volume C, Revision 2001-04

Please make the following changes to the Emergency Plan Implementing Procedures Volume C by following the below instructions.

REMOVE

Cover Sheet - Rev. 2001-03
Table of Contents, Page 1 & 2
RP/0/B/1000/010 - 03/21/00
RP/0/B/1000/021 - 09/19/00
RP/0/B/1000/029 - 12/12/96
Engineering Directive 5.1
04/12/00

ADD


Cover Sheet Rev. 2001-04
Table of Contents, Page 1 & 2
RP/0/B/1000/010 - 04/24/01
RP/0/B/1000/021 - 04/30/01
RP/0/B/1000/029 - 04/30/01
Engineering Directive
04/17/01

DUKE POWER

EMERGENCY PLAN IMPLEMENTING PROCEDURES VOLUME C



APPROVED:



W. W. Foster, Manager
Safety Assurance

May 03, 2001

Date Approved

May 03, 2001

Effective Date

**VOLUME C
REVISION 2001-04
MAY, 2001**

VOLUME C
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HP/0/B/1009/018	Off-Site Dose Projections	05/19/00
HP/0/B/1009/020	Estimating Food Chain Doses Under Post Accident Conditions	10/10/98
HP/0/B/1009/021	Source Term Assessment Of A Gaseous Release From Non-Routine Release Points	12/01/97
HP/0/B/1009/022	On Shift Off-Site Dose Projections	06/02/99
RP/0/B/1000/001	Emergency Classification	01/30/01
RP/0/B/1000/002	Control Room Emergency Coordinator Procedure	01/30/01
RP/0/B/1000/003 A	ERDS Operation	12/03/98
RP/0/B/1000/007	Security Event	01/16/01
RP/0/B/1000/009	Procedure For Site Assembly	03/21/00
RP/0/B/1000/010	Procedure For Emergency Evacuation/Relocation Of Site Personnel	04/24/01
RP/0/B/1000/015 A	Offsite Communications From The Control Room	12/10/98
RP/0/B/1000/015 B	Offsite Communications From The Technical Support Center	12/10/98
RP/0/B/1000/015 C	Offsite Communications From The Emergency Operations Facility	12/10/98
RP/0/B/1000/016	Medical Response	01/30/01
RP/0/B/1000/017	Spill Response	11/30/00
RP/0/B/1000/018	Core Damage Assessment	09/30/97
RP/0/B/1000/019	Technical Support Center Emergency Coordinator Procedure	01/30/01
RP/0/B/1000/020	Emergency Operations Facility Director Procedure	05/31/00
RP/0/B/1000/021	Operations Interface (EOF)	04/30/01
RP/0/B/1000/022	Procedure For Site Fire Damage Assessment And Repair	09/18/00
RP/0/B/1000/024	Protective Action Recommendations	11/10/99
RP/0/B/1000/028	Communications & Community Relations World Of Energy Emergency Response Plan	02/17/97

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RP/0/B/1000/029	Fire Brigade Response	04/30/01	
RP/0/B/1000/031	Joint Information Center Emergency Response Plan	06/12/00	
SR/0/B/2000/001	Standard Procedure For Public Affairs Response To The Emergency Operations Facility	03/23/00	
Business Management	Business Management Emergency Plan	03/21/01	
SSG Functional Area Directive 102	SSG Emergency Response Plan – ONS Specific	03/01/01	
NSC – 110	Nuclear Supply Chain – SCO Emergency Response Plan	04/02/01	
Engineering Directive 5.1	Engineering Emergency Response Plan	04/17/01	
Human Resources Procedure	ONS Human Resources Emergency Plan	04/26/00	
Radiation Protection Manual Section 11.3	Off-Site Dose Assessment And Data Evaluation	04/06/99	
Radiation Protection Manual Section 11.7	Environmental Monitoring For Emergency Conditions	04/15/99	
Safety Assurance Directive 6.1	Safety Assurance Emergency Response Organization	11/28/94	
Safety Assurance Directive 6.2	Emergency Contingency Plan	03/27/00	
Training Division	Training Division Emergency Response Guide DTG-007	02/15/01	

Revision 2001-04
May, 2001

**INFORMATION
ONLY****Duke Power Company
PROCEDURE PROCESS RECORD**(1) ID No. RP/0/B/1000/010Revision No. 003**PREPARATION**Station Oconee Nuclear Station(3) Procedure Title Procedure For Emergency Evacuation/Relocation of Site Personnel(4) Prepared By Donice Kelley Date 04/17/2001

(5) Requires 10CFR50.59 evaluation?

☐ Yes (New procedure or revision with major changes)☒ No (Revision with minor changes)☐ No (To incorporate previously approved changes)(6) Reviewed By Ray Waterman (QR) Date 4/18/01Cross-Disciplinary Review By _____ (QR) NA RAW Date 4/18/01Reactivity Mgmt. Review By _____ (QR) NA RAW Date 4/18/01

(7) Additional Reviews

QA Review By _____ Date _____

Reviewed By _____ Date _____

Reviewed By _____ Date _____

(8) Temporary Approval (if necessary)

By _____ (SRO/QR) Date _____

By _____ (QR) Date _____

(9) Approved By M. R. Shome Date 4-24-01**PERFORMANCE** (Compare with control copy every 14 calendar days while work is being performed.)

(10) Compared with Control Copy _____ Date _____

Compared with Control Copy _____ Date _____

Compared with Control Copy _____ Date _____

(11) Date(s) Performed _____

Work Order Number (WO#) _____

COMPLETION

(12) Procedure Completion Verification

☐ Yes ☐ NA Check lists and/or blanks initialed, signed, dated, or filled in NA, as appropriate?☐ Yes ☐ NA Listed enclosures attached?☐ Yes ☐ NA Data sheets attached, completed, dated, and signed?☐ Yes ☐ NA Charts, graphs, etc. attached, dated, identified, and marked?☐ Yes ☐ NA Procedure requirements met?

Verified By _____ Date _____

(13) Procedure Completion Approved _____ Date _____

(14) Remarks (Attach additional pages, if necessary)

Duke Power Company Oconee Nuclear Site Procedure For Emergency Evacuation/Relocation of Site Personnel Reference Use	Procedure No. RP/0/B/1000/010
	Revision No. 003
	Electronic Reference No. OX002WP2

Procedure For Emergency Evacuation/Relocation of Site Personnel

NOTE: This procedure is an implementing procedure to the Oconee Nuclear Site Emergency Plan and must be forwarded to Emergency Planning within three (10) working days of approval.

The purpose of this procedure is to set guidelines for dealing with an emergency evacuation should it become necessary for non-essential personnel to leave the site. Site Evacuation is activated only after personnel have been assembled through a Site Assembly. This procedure also sets guidelines for dealing with relocation of site personnel for situations where an evacuation is not required.

1. Symptoms

- ◆ General Public (same as Category 1) Enclosure 4.4, (Categories of Personnel)
- ◆ Category 1, Enclosure 4.4, (Categories of Personnel)
 1. External Radiation Dose > 2mrem/hr in any Unrestricted Area
 2. Airborne Radioactivity 0.8 DAC (2mrem/hr) in any Unrestricted Area (10CFR20)
 3. Flammable gas/toxic chemical release/spill that affects personnel safety
- ◆ Category 2 and 3, Enclosure 4.4, (Categories of Personnel).
 1. External Radiation Level 2.5 mrem/hr, with potential to exceed annual limits
 2. Airborne Radioactivity equivalent 1 DAC/hr for 40 hrs/week with potential to exceed annual limit

NOTE: Doses received in excess of the annual limits, including doses received during accidents, emergencies and planned special exposures must be approved.

3. Flammable gas/toxic chemical release/spill that affects personnel safety
- ◆ Spill or other emergency situation at Hazardous Waste Storage Area that affects personnel safety.

2. Immediate Actions

- 2.1 Radiological Emergency - If the site has experienced a radiological emergency requiring evacuation/relocation of site personnel the Emergency Coordinator should refer to Enclosure 4.1 (Response Actions Following a Site Radiological Emergency Requiring Evacuation/Relocation of Site Personnel).
- 2.2 Hazardous Waste Emergency - If the site has experienced a Hazardous Waste Emergency requiring area relocation the Emergency Coordinator should refer to Enclosure 4.2, (Hazardous Waste Storage Area Relocation).
- 2.3 Dam Failure – Condition “A” (Actual/Imminent Dam failure) for Keowee Hydro project dams/dikes the Emergency Coordinator should refer to Enclosure 4.3, (Response to Condition “A” for Keowee Hydro project dams/dikes).

3. Subsequent Actions

- 3.1 EOF State/County Communicator shall notify the appropriate county EOC that the site is being evacuated so that law enforcement escort can be provided. If evacuation is to Daniel High School or Keowee Elementary School, officers will be required to properly secure the school area so that processing may be carried out in an orderly manner. Supervisory personnel at applicable post Evacuation/Relocation assembly locations will assist in maintaining order and control.
- 3.2 RP will monitor and decontaminate personnel, in accordance with applicable RP procedures, both onsite and offsite at the decontamination center.
 - 3.2.1 Applicable county personnel will assist in decontamination of vehicles if requested. EOF State/County Communicator should contact appropriate County EOC for assistance at the decontamination center.
- 3.3 Site personnel relocated to either the Oconee Complex or Oconee Training Center may be utilized as additional support for their emergency response organization. Site Superintendents and Managers should contact Group Evacuation Coordinators as needed to acquire additional resources.
- 3.4 RP will continue to monitor plant conditions. Site personnel relocated to either the Oconee Complex or Oconee Training Center (Relocated Areas) may need to be evacuated to offsite locations should plant conditions continue to degrade.
 - 3.4.1 If evacuation of personnel from Relocation Areas is required, RP will make recommendations to the Emergency Coordinator and initiate Step 1.3, Enclosure 4.1, (Radiological Emergency Requiring Relocation/Evacuation).

4. Enclosures

- 4.1 Radiological Emergency Requiring Relocation/Evacuation
- 4.2 Hazardous Waste Storage Area Relocation/Evacuation
- 4.3 Actual/Imminent Dam Failure For Keowee Hydro Project Dams/Dikes
- 4.4 Categories of Personnel
- 4.5 Emergency Evacuation Routes (from site)
- 4.6 Parking Lot/Site Access Designations
- 4.7 Evacuation/Relocation Plan A (ALPHA)
- 4.8 Evacuation/Relocation Plan B (BRAVO)
- 4.9 Group Site Assembly Locations
- 4.10 Oconee Complex Room Assignments
- 4.11 Oconee Training Center Room Assignments
- 4.12 Example Site Evacuation PA Announcements

Enclosure 4.1
Radiological Emergency Requiring
Relocation/Evacuation

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1. Radiological Emergency Requiring Relocation/Evacuation

NOTE: Sections 1.1, 1.2, and 1.3 below can be completed in parallel **BUT** must be done prior to completing section 1.4.

When it is determined that the emergency situation requires site evacuation, the Emergency Coordinator shall direct the following to occur:

- 1.1 Request all superintendents/managers to determine the site support staff required to support the emergency organization.
 - 1.1.1 Superintendents/Managers will request their Group Evacuation Coordinators to work with all sections within the group to assure staffing needed to support the emergency has been determined and personnel have been made aware of their work schedule.
 - 1.1.2 Group Evacuation Coordinators, with support from the sections within the group, will determine the personnel to be evacuated from each category per Enclosure 4.4, (Categories of Personnel).
- 1.2 Site Communications Specialist Responsibilities:
 - 1.2.1 Site Communications Specialist ensures that Employee Information Bulletins/News Releases provided by Corporate Communications are available for distribution.
- 1.3 Radiation Protection (RP) Responsibilities:
 - 1.3.1 Dose Assessment determines evacuation and re-entry routes from/to the site. This information is provided to the RP ALARA supervisor in the OSC.
 - 1.3.2 The RP Manager determines the Evacuation/Relocation time for each category. This information is provided to the RP ALARA supervisor.
 - 1.3.3 The RP ALARA supervisor evaluates plant radiological conditions and along with the information provided by Dose Assessment determines the appropriate Evacuation/Relocation Plan (Enclosure 4.4) to be utilized. This information is provided to the TSC Off-Site Communicator along with the evaluation/relocation time for each category.
 - A. Evacuation/Relocation plan information is also entered on computer (eg; Lotus Notes, LAN, etc.) for distribution to selected computer Ids at site assembly locations.

Enclosure 4.1
Radiological Emergency Requiring
Relocation/Evacuation

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- 1.3.4 If the OSC Security Liaison is unavailable, the RP Manager shall contact the Security Shift Supervisor for support with Steps 1.3.5 and 1.3.6.
- 1.3.5 The RP Manager directs Security, through the OSC Security Liaison, to patrol the site general areas to assure Evacuation/Relocation instructions are carried out and to direct traffic to correspond with the exit routes.
- 1.3.6 The RP Manager requests Security, through the OSC Security Liaison, to provide the OSC with keys to the appropriate offsite relocation center.
 - A. Field Monitoring Team has school keys in equipment bags.
- 1.3.7 The RP Manager requests Bartlett to provide for vehicle decontamination if required.
- 1.4 TSC Offsite Communicator Responsibilities:
 - 1.4.1 The TSC Offsite Communicator requests RP in the OSC to implement the procedure for radiological surveillance and decontamination of evacuating personnel.
 - 1.4.2 Verify that the Community Relations TSC Liaison has informed the Site Communications Specialist of the pending evacuation.
 - 1.4.3 The TSC Offsite Communicator makes the PA Announcement to notify personnel of which Evacuation/Relocation plan is in effect and the applicable post Evacuation/Relocation assembly location. See Enclosure 4.9, (Group Site Assembly Locations).
 - 1.4.4 Notify TSC/OSC Liaison if OSC (Site Services Group) support is required for assistance with transportation needs.
- 1.5 Superintendent/Manager Responsibilities:
 - 1.5.1 After the TSC Offsite Communicator has made the PA announcement, contact Group Evacuation Coordinators and verify that Evacuation/Relocation instructions are being distributed.
- 1.6 Group Evacuation Coordinator Responsibilities:
 - 1.6.1 Verify that all sections within the group are aware which Evacuation/Relocation plan is in effect and that affected personnel have received Evacuation/Relocation instructions.
 - 1.6.2 Coordinate transportation efforts for group. Notify the TSC Offsite Communicator of any transportation problems.
 - 1.6.3 Evacuate/relocate personnel as directed by instructions.

**Radiological Emergency Requiring
Relocation/Evacuation**

- 1.6.4 Report the status of Evacuation/Relocation to Group/Division Managers in the TSC/OSC/EOF.
- A. Provide the Group/Division Managers with the following information if personnel are relocated:
1. Phone number in or near area for future notifications;
 2. Number of assigned personnel at relocation area.

Hazardous Waste Storage Area Relocation**1. Hazardous Waste Storage Area Relocation****1.1 Hazardous Waste Storage Area Relocation Responsibilities:**

When it is determined that the emergency situation requires relocation of personnel from the Radwaste Facility or L-1 Storage Yard, the Emergency Coordinator/Shift Supervisor shall:

- 1.1.1 Contact the Chemistry Manager and request initiation of personnel relocation from the Radwaste Facility to the Chemistry Staff Office for those situations involving the Radwaste Facility.
 - A. Contact the Radwaste Facility Control Room after normal working hours.
- 1.1.2 Contact the Nuclear Supply Chain Manager and request initiation of personnel relocation from the L-1 Storage Yard to the L-1 Yard Office for those situations involving the L-1 Storage Yard
 - A. Contact the Materials Issue Window or Tool Crib after normal working hours.

NOTE: For drill purposes only, preface and close all announcements with, "This is a drill."

- 1.1.3 Make the following PA Announcement in addition to the phone calls:
 - A. For events occurring in Radwaste facility:

"All personnel in the Radwaste Facility should relocate to the Chemistry Staff Office at this time."
 - B. For events occurring at L1 Yard:

"All personnel in the L-1 Storage Yard should relocate to the L-1 Yard office at this time."

**Actual/Imminent Dam Failure For Keowee
Hydro Project Dams/Dikes**

1. Actual/Imminent Dam Failure For Keowee Hydro Project Dams/Dikes

- 1.1 Response to Condition "A" (Actual/Imminent Dam failure) for Keowee Hydro project dams/dikes

When it is determined that Condition "A" exist, actions must be taken to relocate personnel located at the Oconee Complex, Oconee Motor Pool, Maintenance Training Facility, Security Firing Range/track and Warehouse #5A.

NOTE: All telephone numbers can be found in the Emergency Telephone Directory.

- 1.1.1 Keowee personnel will be relocated to the OSC if events occur where their safety could be affected.
- 1.1.2 Personnel located at the Oconee Complex, Oconee Garage and Oconee Maintenance Training Facility will relocate to World of Energy/Operations Training Center.
- 1.2 TSC Emergency Coordinator's responsibilities:
 - 1.2.1 Request the Offsite Communicator to notify RP ALARA (OSC) to prepare an evacuation plan for imminent dam failure.
- 1.3 Offsite Communicator's responsibilities:
 - 1.3.1 Notify RP ALARA at OSC and request an Evacuation Plan for imminent Dam failure.
 - 1.3.2 Receive evacuation plan from RP and make TSC Emergency Coordinator aware.
 - 1.3.3 Provide PA announcement to site personnel, concerning affected areas and Evacuation/Relocation plan.
 - 1.3.4 Direct Security, through OSC Security Liaison, to patrol the site general area to assure Evacuation/Relocation instructions are carried out and to direct traffic to correspond with established exit routes.
 - 1.3.5 Notify TSC/OSC Liaison if OSC (SSG) support is required for assistance with transportation needs.
- 1.4 Radiation Protection (RP) responsibilities:
 - 1.4.1 Prepare Enclosure 4.8, (Evacuation/Relocation Plan B) (BRAVO) to be utilized.
 - 1.4.2 Notify TSC Offsite Communicator once Evacuation/Relocation Plan is available on computers.

**Actual/Imminent Dam Failure For Keowee
Hydro Project Dams/Dikes**

- 1.4.3 Enter Evacuation/Relocation plan information into computer application for distribution to Group Evacuation Coordinators.
- 1.5 Group Evacuation Coordinators responsibilities:
 - 1.5.1 Receive communication by Superintendents/Managers once PA announcements have been made to evacuate affected area.
 - 1.5.2 Ensure all sections within their group receive Evacuation/Relocation information and which plan is in effect.
 - 1.5.3 Coordinate transportation efforts for group. Notify Offsite Communicator of any transportation problems.
 - 1.5.4 Report status of Evacuation/Relocation efforts to group Managers in the TSC/OSC/EOF.
 - 1.5.5 Provide group Managers with number of personnel relocated to World of Energy and Operations Training Facility.
- 1.6 Security responsibilities:
 - 1.6.1 If the OSC Security Liaison is unavailable, the Security Officer should provide this information to the Security Shift Supervisor.
 - 1.6.2 Security will be notified to alert personnel at Security track/firing range and Warehouse #5A and to relocate to work areas inside the plant.
 - 1.6.3 Patrol site general areas to assure alert relocation instructions are being followed.
 - 1.6.4 Direct traffic to correspond with identified exit routes.
 - 1.6.5 Provide the OSC Security Liaison with information concerning the status of relocation of personnel.
 - 1.6.6 Patrol/secure access to Old Pickens Church/Cemetery for situations concerning dam failure.

1. Categories Of Personnel

GENERAL PUBLIC

Personnel who do not work for Duke Power Company or any Vendor Contractors who are not subject to occupational radiation exposure at Oconee Nuclear Site.

CATEGORY 1

Various groups of personnel who are not subject to occupational radiation exposure at Oconee Nuclear Site (ie, have completed **Plant Access Training**).

CATEGORY 2

Various groups of personnel who are subject to occupational radiation exposure (have completed **Radiation Worker Training**) at the site and are considered non-essential to the operations of the site during a classified emergency situation.

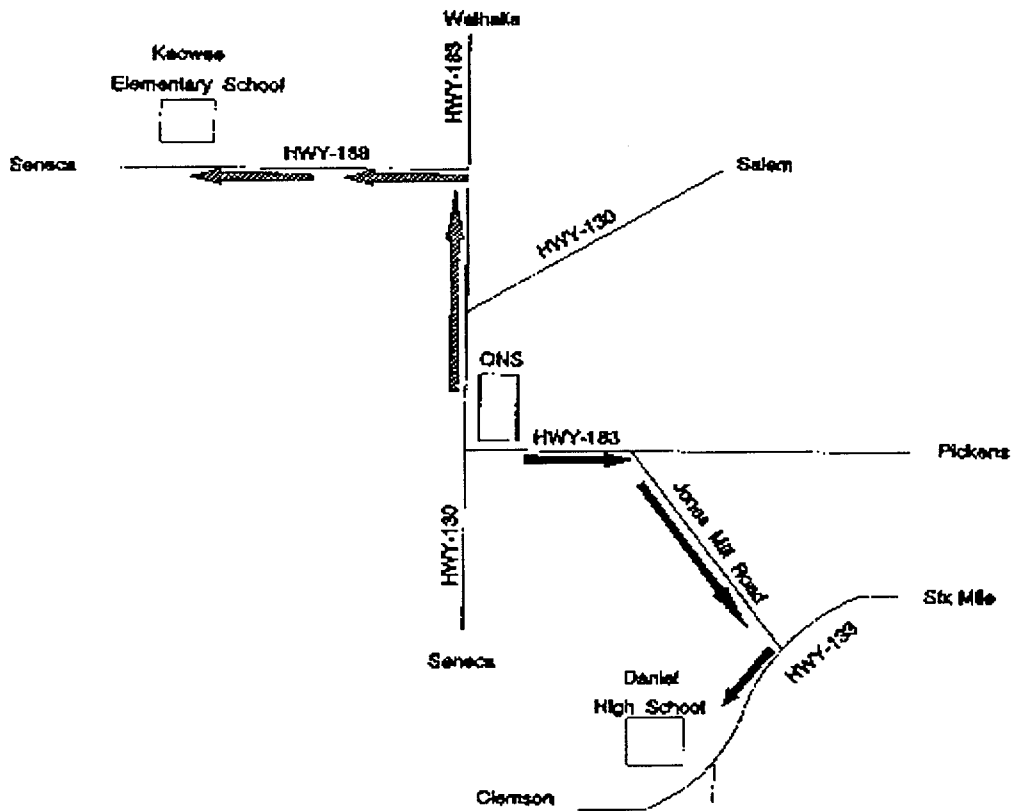
CATEGORY 3

Personnel who are radiation workers (have completed **Radiation Worker Training**) and who have been identified by their supervisors as being essential. Listings of these identified personnel are on file in the Security Badging area and the Emergency Planning Office.

Enclosure 4.5
Emergency Evacuation Routes

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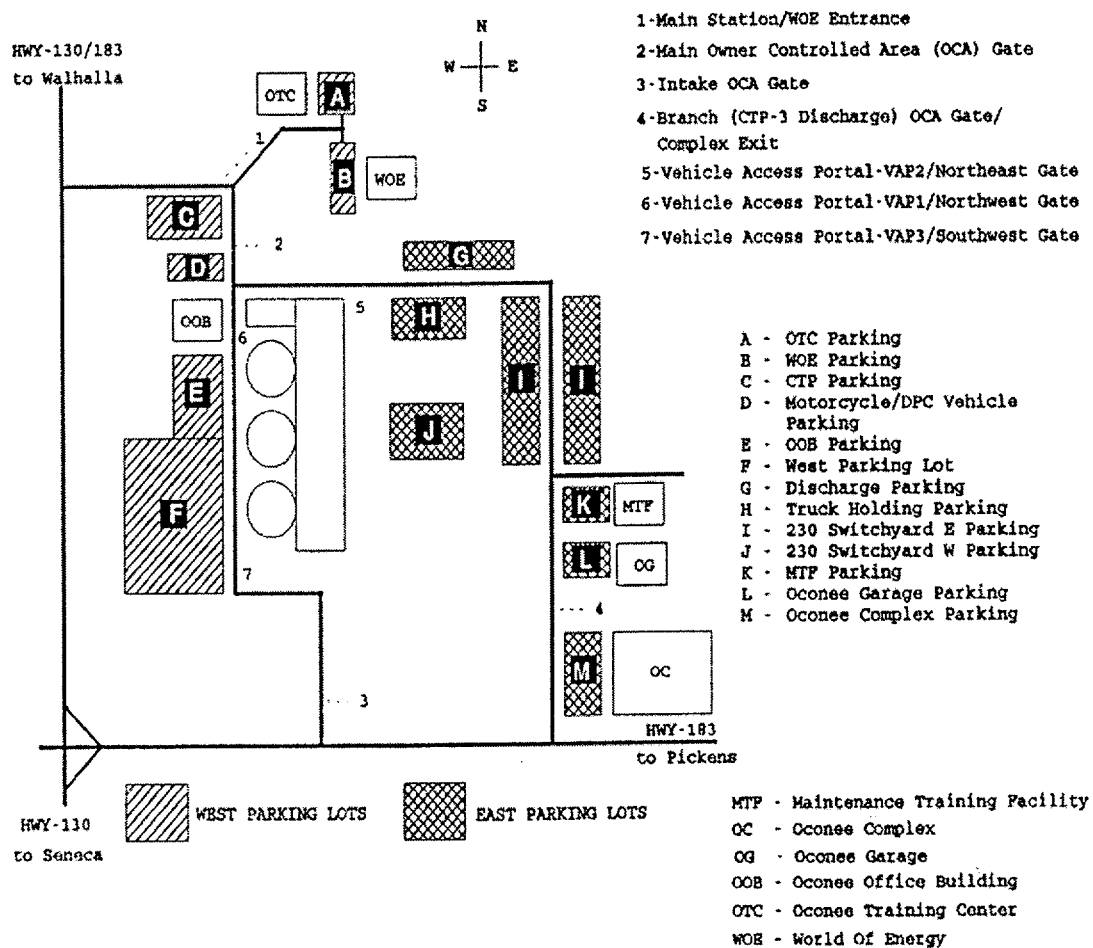
EMERGENCY EVACUATION ROUTES



Enclosure 4.6
Site Parking Lot/Access Designations

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1. SITE PARKING LOT/ACCESS DESIGNATIONS



Site Evacuation/Relocation Plan A (Alpha)

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1. Site Evacuation/Relocation Plan A (ALPHA)

SITE EVACUATION/RELOCATION PLAN A (ALPHA)

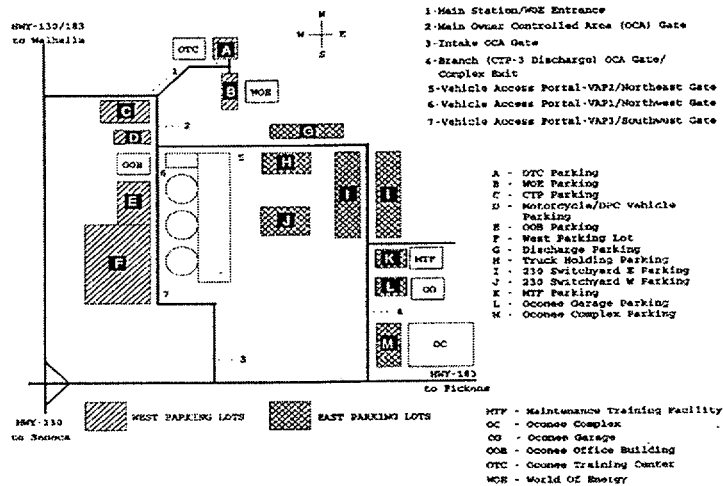
PLANT STATUS: Conditions exist that require Evacuation/Relocation of non-essential personnel and members of the general public from the plant site. Radioactive release _____ occurring at this time.

PERSONNEL TO BE EVACUATED:**EVACUATION TIME****PERSONNEL CATEGORIES**

- A. All members of the General Public.
- B. Category 1- All Plant Access Workers
- C. Category 2 – All Radiation Workers who have not completed Emergency Response Training
- D. Category 3 – All Radiation Workers who have completed Emergency Response training designated by management as evacuees.

WIND DIRECTION:

PARKING LOTS AVAILABLE FOR USE: _____ East Parking Lots _____ West Parking Lots

**DECONTAMINATION CENTER/POST EVACUATION ASSEMBLY LOCATION:**

1. Personal Residence	2. Daniel High School	3. Keowee Elementary	4. Oconee Complex	5. Oconee Training Center
Transportation Required	Transportation Required	Transportation Required	Transportation NOT Required	Transportation NOT Required

EVACUATION INSTRUCTIONS:

Enclosure 4.8
Evacuation/Relocation Plan B (BRAVO)

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1. Evacuation/Relocation Plan B (BRAVO)

Plant Status

Imminent Keowee Dam failure exist.

Personnel to be Evacuated

All personnel and members of general public will be evacuated from Oconee Complex, Oconee Motor Pool, Maintenance Training Facility, Security Firing Range/track Warehouse #5A and Old Pickens Church/Cemetery.

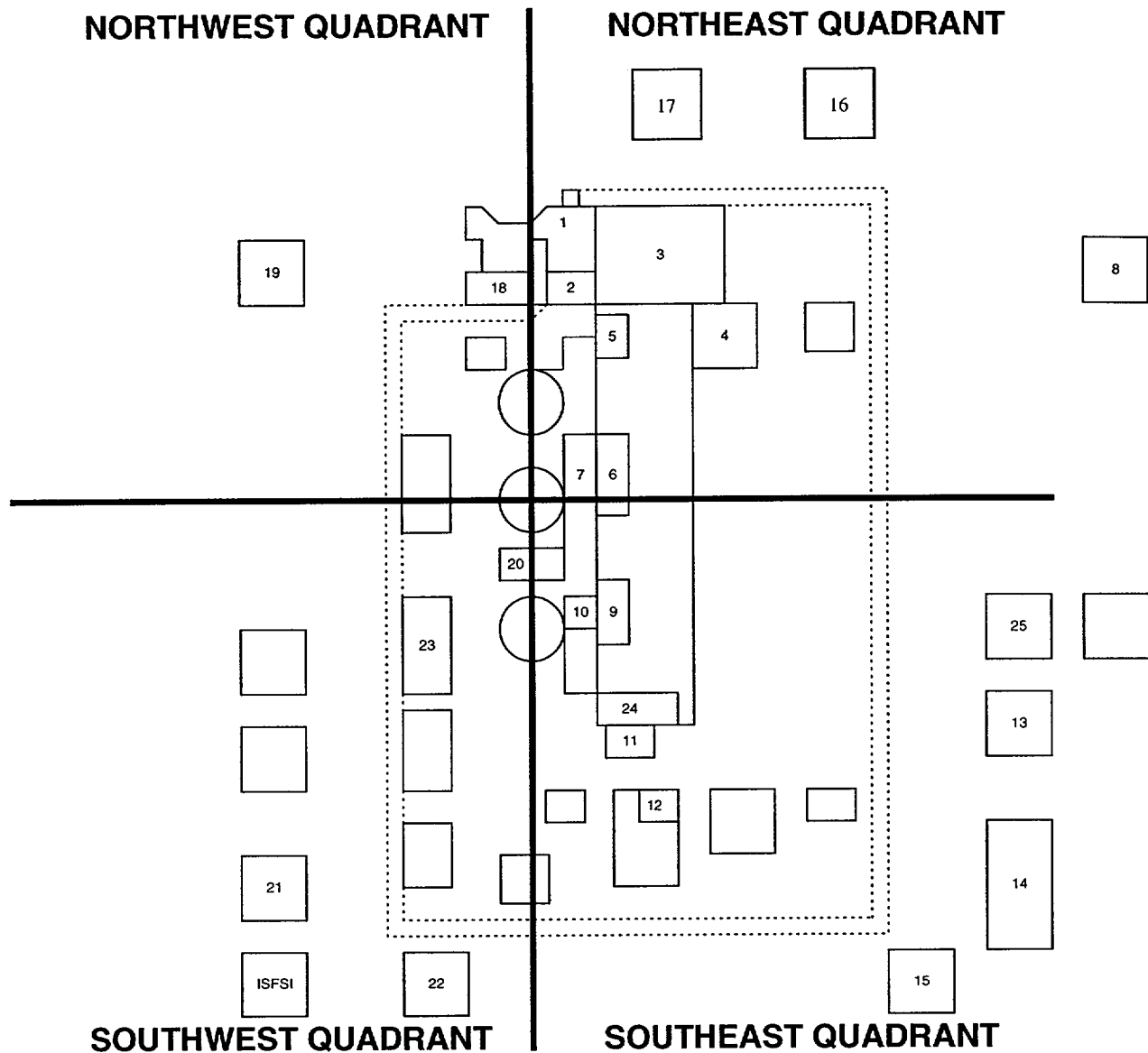
Best Evacuation/Relocation Assembly Locations

Operations Training Facility and World of Energy.

Evacuation Instruction:

Group Site Assembly Locations

1. Group Site Assembly Locations



NORTHWEST QUADRANT	NORTHEAST QUADRANT
18. Administrating Building 19. Oconee Office Building	1. Security Building 2. Training/Locker Building 3. Maintenance Service Bd. 4. Maintenance Support Building 5. Turbine Building North Offices 6. Turbine Building 1&2 Offices 7. Unit 1&2 Control Room 8. Keowee Hydro Station 16. World of Energy 17. Oconee Training Center
SOUTHWEST QUADRANT	SOUTHEAST QUADRANT
20. RP Assembly Building 21. Interim Outage Building 22. Geo-Technical Center 23. Warehouse Offices	9. Turbine Building 3 Offices 10. Unit 3 Control Room 11. Technical Support Building 12. Radwaste Facility 13. Oconee Garage 14. Oconee Complex 15. L-1 Storage Yard 24. Turbine Building South Offices 25. Maintenance Training Facility

Enclosure 4.10
Oconee Complex Room Assignments

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1. Oconee Complex Room Assignments

ROOM	ROOM #	DIVISIONS/GROUPS ASSIGNED
Conference Room	1075	VP Staff Radiation Protection Safety Assurance NRC Operations Training Community Relations
Auditorium	1080	I&E * Work Control Safety I/T * Document Management * Human Resources * Business Management Security
Cafeteria	1114	Chemistry Mechanical Systems Engineering * Mechanical/Civil Equipment Engineering * Modifications Engineering * Food Service Vendor *
Hallway (Leading to Warehouse)	1224	Mechanical Maintenance
Conference Room	2050	Nuclear Supply Chain* Site Services*
Training	2088	Mechanical Maintenance Mechanical QC Services
Conference Room	2161	Mechanical Maintenance
Conference Room	2182	Mechanical Maintenance
Warehouse		ESS
Warehouse		Bartlett

*Applicable to those personnel not located at the Oconee Complex

Oconee Training Center Room Assignments

1. Oconee Training Center Room Assignments

ROOM	ROOM #	DIVISIONS/GROUPS ASSIGNED
Student Lounge	100	I&E
Classroom	104	Work Control
Classroom	105	Mechanical QC Services
Classroom	106	Bartlett Mechanical Systems Engineering
Classroom	107	Chemistry Mechanical/Civil Equipment Engineering Modifications Engineering
Classroom	112	Mechanical Maintenance Nuclear Supply Chain Site Services
Conference Room	115	Safety Assurance NRC
Conference Room	116	VP Staff Radiation Protection Training (Oconee Office Building) Training (Maintenance Training Facility)
Canteen	120	I/T Document Management Human Resources Budget & Financial Planning
Instructor Staff	122	Operations
Administrator Staff	127	Food Service Vendor
Lobby	128	Safety Security

1. Example Site Evacuation PA Announcements

1.1 The following announcement is applicable to drills/exercises:

THIS IS A DRILL !!!

THIS IS A DRILL !!!

THIS IS A SITE EVACUATION (RELOCATION) ANNOUNCEMENT !!!

THIS IS A SITE EVACUATION (RELOCATION) ANNOUNCEMENT !!!

EVACUATE THE SITE ACCORDING TO EVACUATION/RELOCATION PLAN ____.

REPORT TO POST EVACUATION ASSEMBLY LOCATION _____. GROUP EVACUATION COORDINATORS SHOULD REFER TO THEIR PLANS AND INITIATE EVACUATION OF CATEGORY ____ ASSIGNED PERSONNEL AT THIS TIME.

(Provide any additional instructions as determined by RP – See 3.0 below)

THIS IS A DRILL !!!

THIS IS A DRILL !!!

2. The following announcement is applicable to emergency situations requiring site Evacuation/Relocation:

THIS IS A SITE EVACUATION (RELOCATION) ANNOUNCEMENT !!!

THIS IS A SITE EVACUATION (RELOCATION) ANNOUNCEMENT !!!

EVACUATE THE SITE ACCORDING TO EVACUATION/RELOCATION PLAN ____.

REPORT TO POST EVACUATION ASSEMBLY LOCATION _____. GROUP EVACUATION COORDINATORS SHOULD REFER TO THEIR PLANS AND INITIATE EVACUATION OF CATEGORY ____ ASSIGNED PERSONNEL AT THIS TIME.

(Provide any additional instructions as determined by RP – See 3.0 below)

3. Additional Instructions:

**INFORMATION
ONLY****Duke Power Company
PROCEDURE PROCESS RECORD**(1) ID No. RP/0/B/1000/021Revision No. 003**PREPARATION**

- Station Oconee Nuclear Station
- (3) Procedure Title Operations Interface (EOF)
- (4) Prepared By Donice Kelley Date 04/19/2001
- (5) Requires 10CFR50.59 evaluation?
☐ Yes (New procedure or revision with major changes)
☒ No (Revision with minor changes)
☐ No (To incorporate previously approved changes)
- (6) Reviewed By Ray Waterman (QR) Date 4/26/01
 Cross-Disciplinary Review By NA (QR)NA NA Date 4/26/01
 Reactivity Mgmt. Review By NA (QR)NA NA Date 4/26/01
- (7) Additional Reviews
 QA Review By _____ Date _____
 Reviewed By _____ Date _____
 Reviewed By _____ Date _____
- (8) Temporary Approval (if necessary)
 By _____ (SRO/QR) Date _____
 By _____ (QR) Date _____
- (9) Approved By M. R. Thorne Date 4-30-01

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

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

COMPLETION

- (12) Procedure Completion Verification
☐ Yes ☐ NA Check lists and/or blanks initialed, signed, dated, or filled in NA, as appropriate?
☐ Yes ☐ NA Listed enclosures attached?
☐ Yes ☐ NA Data sheets attached, completed, dated, and signed?
☐ Yes ☐ NA Charts, graphs, etc. attached, dated, identified, and marked?
☐ Yes ☐ NA Procedure requirements met?
- Verified By _____ Date _____
- (13) Procedure Completion Approved _____ Date _____
- (14) Remarks (Attach additional pages, if necessary)

Duke Power Company Station Name Operations Interface (EOF) Reference Use	Procedure No. RP/0/B/1000/021
	Revision No. 003
	Electronic Reference No. OX002WPI

Operations Interface

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

1. Symptoms

- 1.1 Conditions exist such that the Emergency Response Organization has been activated; the Emergency Operations Facility (EOF) is required to be staffed.

2. Immediate Actions

NOTE: The EOF is required to be staffed within 75 minutes of the declaration or upgrade to an EAL at which EOF activation is required (ALERT or higher).

- 2.1 If you are the on-call Operations Interface Manager (Ops Interface), upon activation of the Emergency Response Organization (ERO), report immediately to the EOF. (For actual emergencies, all other qualified and "fit for duty" Ops Interface Managers should also report to the EOF, or otherwise make themselves available for 24-hour staffing of the EOF).

For drills, particularly unannounced drills on backshifts, it is at their discretion whether or not "off duty" Ops Interface Managers report to the EOF. The Duty Ops Interface Manager should use Enclosure 4.2, (Telephone Numbers) to augment staffing if necessary.

- 2.1.1 If on site at the time of the activation, ensure that you are appropriately accounted for before leaving for the EOF.
- 2.1.2 Adhere to any special directions from control or security personnel regarding access to, or pass-through of, areas as you leave the site.
- 2.2 If you are the on-call Ops Interface person, and receive notification over the Emergency Phone Network as well as on your pager, provide a "NO" response to the phone request when asked if you can respond. The call tree looks for a second Ops Interface responder (in addition to the on-call person) and if you respond "YES," the phone net will stop looking. (Remember, the access code for phone network calls is 1,2,3,4).

3. Subsequent Actions

- 3.1 If the EOF is not open when you arrive, wait for Security personnel to open the EOF and establish entry control. After passing through Security, if it is a drill exercise, be sure to sign one of the Training Attendance sheets located in the entrance area so that you will receive credit for participating in the drill. Participation in, or observation of, at least one drill or EOF activation each year is a requirement for the Ops Interface Manager position.
- 3.2 If you are the first Ops Interface Manager to arrive at the EOF, sign in on the status board in the EOF Director's area. Even if you are not the scheduled Ops Interface Manager, sign yourself in at that position until the duty person arrives. Then turn over to the duty Ops Interface Manager and replace your name on the board with his.
- 3.3 Obtain working copies of the procedure RP/0/B/1000/021, (Operations Interface) and of the Emergency Classification procedure (RP/0/B/1000/001) from the procedures cart in the EOF Director's area.
- 3.4 Connect to the Operations Communications Bridge network:
 - 3.4.1 Replace the batteries in the Operations Interface QTR-2 Radio/Headset belt pack with two fresh 9V batteries from the supply room in the EOF. (A fresh set of batteries provides a minimum duty cycle of six hours).
 - 3.4.2 Put the headset on and turn the power for the QTR-2 radio (belt pack unit) on using the Volume control switch located on top of the belt pack unit. The "Power On" LED should come on.
 - 3.4.3 The FDL₃ Repeater is the "base unit" sitting on the table. (It has the Rolm phone base unit plugged into the back of it.) Turn the power on to the repeater by flipping the toggle switch up. The "Power On" and the "Channel 1" LED's now be lit.
 - 3.4.4 The telephone handset should **NOT** be plugged into the Rolm phone base. Remove the handset from the cradle, and a dial tone should be heard.

<p>NOTE: Keep the handset out of the Rolm phone cradle during QTR-2 radio use. Returning the handset to the cradle will "hang the phone up" and break the communications link.</p>

- 3.4.5 Dial **66**. Another dial tone should be received.

- 3.4.6 Dial **4908**. Several rings will occur and then one beep. The beep indicates that you have successfully dialed into the communications bridge. (Everyone already on the telephone bridge will also hear the beep to let them know that someone else has joined them). Although unlikely, if you are the first person to dial into the telephone bridge, the number will continue to ring until someone else also dials in. At that time, the phone will stop ringing and a beep will sound. You may then begin talking.
- 3.4.7 The “P-T-T” (push-to-talk) transmit switch on top of the belt pack unit is a three-position rocker switch:
- When the right side of the switch is pressed to the “CONT” position, the radio is locked into a continuous communication mode of operation, where, whenever you speak, your voice is transmitted.
 - Rocking the switch back to the neutral position blocks voice transmission from your unit.
 - The spring-return to neutral P-T-T position allows voice transmission from your unit for as long as the switch is held in the P-T-T position.
- 3.4.8 Adjust the volume to the headset with the volume control knob on the belt pack unit. The volume control knob on the repeater unit has no function in our present mode of operation.

NOTE: Two screw-driver adjusted volume control pots located on the back of the repeater unit that may be adjusted by a Communications or SSG person if you are having difficulty hearing or being heard.

- 3.4.9 After connecting to the Operations Communication Bridge, identify yourself to those already on the bridge. Your primary contact for information will be the Operations Liaison, who is also the primary communications link between the Control Room and the TSC. Begin collecting preliminary data about the emergency, but keep voice traffic to a minimum in order to not interfere with the Control Room/TSC link.

Begin filling out Enclosure 4.3, (Operations Interface Manager Initial Report), which is attached to this procedure.

NOTE: Usually, one or more message forms will have already been sent by the TSC Offsite Communicator and will be available from the Offsite Communications personnel in the EOF. These should be the primary source of preliminary information for you about the emergency.

3.4.10 The EOF Director will ask for an up-to-date copy of the "Operations Interface Manager Initial Report" before he declares the EOF "operational".

3.5 Activate the Emergency Data System

3.5.1 Point the remote control towards the Epson overhead projector and press the "Power" button on the remote to turn the projection unit on. (There is also a red "power on" button located on the projection unit if the remote is unavailable).

3.5.2 Make sure the Extron keypad (located behind the computer monitor) is selected to the correct monitor, per the numbered list posted near the keypad. The overhead projector will project whichever monitor is selected by the keypad.

NOTE: SDS computers should remain on at ALL times. Computers have to be on to receive remote updates to SDS program. Monitors may be turned off upon completion of task.

3.5.3 The SDS (Satellite Display System) computer is located at the Operations Interface Manager's station in the EOF.

A. Turn the monitor on, computer should already be on.

3.5.4 Double-click on the appropriate SDS icon ("Drill SDS" or "Real SDS").

3.5.5 Double-click on the appropriate unit (Unit 1/**Simulator** if you are in the "Drill SDS" screen; or the affected unit if you are in the "Real SDS").

3.5.6 Navigate through the SDS screens to monitor desired parameters.

3.6 Continue to provide plant status and updates to the EOF Director:

3.6.1 Use the Operations Communication Bridge network to keep abreast of developments.

3.6.2 Use the EDS to help maintain a picture of overall plant conditions and equipment status.

3.7 Keep the EOF Director advised of the proper Emergency Action Level (EAL).

3.7.1 Use RP/0/B/1000/001, (Emergency Classification) to verify proper EAL.

- 3.7.2 Constantly review all possible conditions/scenarios that could require an upgrade in the EAL.
 - A. Immediately recommend to the EOF Director that the EAL be upgraded, if conditions warrant this.
- 3.8 Help the Offsite Communications Manager, as requested, review Emergency Notification message updates for accuracy.
- 3.9 Assist the Radiological Assessment Manager, as requested, by providing plant status updates.
- 3.10 If additional Ops Interface personnel are present, they should maintain the "Event" and "Major Equipment" status boards. These should be maintained as accurate, detailed, and up-to-date as possible since the majority of people in the EOF Director's area use the boards as reference.
- 3.11 When a board is full, use the "Copy" switch on the board to make a paper copy of the information before erasing the board to make room for new information. Xerox copies may be made for individuals desiring them.
- 3.12 If 24-hour staffing is to be set up, refer to Enclosure 4.2, (Telephone Numbers).
- 3.13 The EOF Director will announce when to secure from the drill or emergency.
 - 3.13.1 Return the telephone handset to the phone cradle, power down the repeater unit, and turn the belt pack unit off.
 - 3.13.2 Use the remote control (or the power switch on the projector unit) to turn off the overhead projector.
 - 3.13.3 Shutdown SDS: Select "Main" with the left mouse button. From the drop-down menu, double-click "Exit." Turn off the monitor.
 - 3.13.4 Clean the "Event" and "Major Equipment" status boards. Advance the boards through a complete cycle to ensure that both panels on the boards get erased.
 - 3.13.5 Return any drawings and manuals to the proper locations. Discard scratch paper, procedure working copies, and other trash in the appropriate receptacles.

4. Enclosures

- 4.1 Operations Interface Organization and Responsibilities
- 4.2 Telephone Numbers
- 4.3 Operations Interface Manager Initial Report

Enclosure 4.1
Operations Interface Organization And
Responsibilities

RP/0/B/1000/021
Page 1 of 1

1. Operations Interface Organization and Responsibilities

1.1 Organization

- 1.1.1 The Ops Interface Manager group is staffed by Oconee Nuclear Site Training personnel who hold or have held a Senior Reactor Operator License.

1.2 Duty Roster

- 1.2.1 Members of the Ops Interface group are assigned to the Oconee Nuclear Site Duty roster and carry a pager. The assigned duty person is required to be "fit for duty" and capable of reaching the EOF within 75 minutes.

1.3 Responsibilities

- 1.3.1 The **primary** responsibility of the Ops Interface Manager is to ensure that the EOF Director has complete and up-to-date information on which to base the declared Emergency Action Level for the event.
- 1.3.2 Additional duties may include assisting other groups at the EOF with technical information about the event, maintaining the Event and Equipment status boards, and tracking the progress of the mitigating actions via the Operations Communications Bridge.

Enclosure 4.2
Telephone Numbers

RP/0/B/1000/021
Page 1 of 1

1. Telephone Numbers

<i>NAME</i>	<i>OFFICE</i>	<i>HOME</i>	<i>PAGE</i>
AYERS, BOBBY	885-3459	882-4889	777-9300
BLACK, JIM	885-3458	882-1416	777-9288
CAUDILL, BILL	885-3451	638-6079	777-9386
HINDMAN, LARRY	885-3347	638-6514	777-9384
INMAN, TROY	885-3450	638-8372	777-9290
STEELY, J. R.	885-3446	296-9126	778-3562
WASHBURN, GABRIEL	885-3453	639-0460	777-9346
WHITTENER, ALAN	885-3456	944-2113	777-9387
YARBROUGH, RANDALL	885-3460	654-2579	777-9309
Operations Communications Bridge		66-4908	
Simulator Instructor Console		66-3828	

Enclosure 4.3
Operations Interface Manager Initial Report

RP/0/B/1000/021
Page 1 of 1

1. PRESENT EAL _____

DECLARED TIME/DATE

INITIAL EAL _____

DECLARED TIME/DATE

2. INITIATING EVENT: Unit _____

3. PRESENT STATUS OF AFFECTED UNIT(S): (including significant pieces of equipment out of service).

IMPROVING _____ STABLE _____ DEGRADING _____

4. STATUS OF UNAFFECTED UNITS:

5. Unit 1 SHUTDOWN AT (TIME/DATE) _____ OR AT _____% POWER

Unit 2 SHUTDOWN AT (TIME/DATE) _____ OR AT _____% POWER

Unit 3 SHUTDOWN AT (TIME/DATE) _____ OR AT _____% POWER

INFORMATION ONLY

Duke Power Company PROCEDURE PROCESS RECORD

(1) ID No. RP/0/B/1000/029Revision No 001

PREPARATION

- (3) Station Oconee Nuclear Station
- (3) Procedure Title Fire Brigade Response
- (4) Prepared By Donice Kelley Date 03/07/2001
- (5) Requires 10CFR50.59 evaluation?
☒ Yes (New procedure or revision with major changes)
☐ No (Revision with minor changes)
☐ No (To incorporate previously approved changes)
- (6) Reviewed By Rodney Brown (QR) Date 04/25/01
 Cross-Disciplinary Review By NA (QR)NA NA Date 04/25/01
 Reactivity Mgmt. Review By NA (QR)NA NA Date 04/25/01
- (7) Additional Reviews
 QA Review By _____ Date _____
 Reviewed By _____ Date _____
 Reviewed By _____ Date _____
- (8) Temporary Approval (if necessary)
 By _____ (SRO/QR) Date _____
 By _____ (QR) Date _____
- (9) Approved By M. Q. Thome Date 4-30-01

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

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

COMPLETION

- (12) Procedure Completion Verification
☐ Yes ☐ NA Check lists and/or blanks initialed, signed, dated, or filled in NA, as appropriate?
☐ Yes ☐ NA Listed enclosures attached?
☐ Yes ☐ NA Data sheets attached, completed, dated, and signed?
☐ Yes ☐ NA Charts, graphs, etc. attached, dated, identified, and marked?
☐ Yes ☐ NA Procedure requirements met?
- Verified By _____ Date _____
- (13) Procedure Completion Approved _____ Date _____
- Remarks (Attach additional pages, if necessary)

Duke Power Company Oconee Nuclear Station Fire Brigade Response Reference Use	Procedure No. RP/0/B/1000/029
	Revision No. 001
	Electronic Reference No. OX0091UU

Fire Brigade Response

NOTE: This procedure is an implementing procedure to the Oconee Nuclear Site Emergency Plan and must be forwarded to Emergency Planning within three (3) working days of approval.

1. Symptoms

- 1.1 Fire, explosions or conditions (smoke, smoldering, burning) associated with a fire have been reported to the Control Room or to the OSC when activated.
- 1.2 This procedure shall provide guidance to shift personnel and Emergency Coordinator for response, actions, and coordination associated with an incident involving real or suspected fires.

2. Immediate Actions

- 2.1 Refer to Enclosure 4.1, (Fire Brigade Response - Routine Operations), for response guidelines during routine operations.
- 2.2 Refer to Enclosure 4.2, (Fire Brigade Response - OSC/TSC Activation), for response guidelines during times when the OSC/TSC are activated.

3. Subsequent Actions

- _____ 3.1 **IF** Fire Brigade equipment or supplies have been used, .
THEN Ensure that all equipment is returned to its proper place and consumable supplies are replaced or ordered.

NOTE: Original copies of the Fire Emergency Report can be located in NSD 112, Fire Brigade Organization and Training.

- _____ 3.2 Complete Enclosure 4.3, (Fire Emergency Report).
 - _____ 3.2.1 Forward a copy to the Fire Protection Engineer.
 - _____ 3.2.2 Initiate a PIP if Enclosure 4.3, (Fire Emergency Report) is completed. Include all important information from Enclosure 4.3, (Fire Emergency Report) in PIP.
 - _____ 3.2.3 Forward this procedure to the Emergency Planning Section.

4. Enclosures

- 4.1 Fire Brigade Response - Routine Operations
- 4.2 Fire Brigade Response - OSC/TSC Activation
- 4.3 Fire Emergency Report

Enclosure 4.1
Fire Brigade Response - Routine Operations

RP/0/B/1000/029
Page 1 of 5

1. Fire Brigade Response – Routine Operations

- Actions may be followed in any sequence.
- Lines left of procedure steps are used to indicate place in procedure.
- Check marks are acceptable in these blanks.
- Complete the procedure steps that apply to this incident.
- N/A steps not performed.

_____ 1.1 Complete the following with information taken from the caller:

Name/Group of person reporting fire _____

Location of fire _____

Equipment/components affected by fire _____

Time _____

Are there people in the immediate area who need to be warned or relocated to a safe area?

Are there any injured people? _____

Call back number _____

_____ 1.2 Make a PA announcement for personnel in the fire area to relocate from that area.

_____ 1.3 Refer to the Fire Plan.

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Page 2 of 5

- Multiple reports from individuals
- Multiple alarms,
- Other system indications
- Any other indicators that the Operations Shift Manager deems significant.

THEN Send one (1) operator, with a radio, to the fire location to verify the fire location to the control room and/or perform actions to mitigate situation if they can be performed safely.

THEN Complete the following:

(staging area)

- Include any information, if known, that would be important to Fire Brigade members responding to the incident location or staging area (e.g., hazardous materials, smoke, structural damage, etc.).
- Include the statement “All non-Fire Brigade Personnel please avoid the _____.”
(fire location area)

- Transmit “Standby for Emergency Message.”
- Press the “Instant Call “ button labeled “Fire Brigade”.
- Wait for the red “Transmit” light on the radio to turn off.
- Transmit message including any information, if known, that would be important to Fire Brigade members responding to the incident location or staging area (e.g., hazardous materials, smoke, structural damage, etc.).

1.4.3 Repeat Steps 1.4.1 and 1.4.2.

Enclosure 4.1
Fire Brigade Response - Routine Operations

RP/0/B/1000/029
Page 3 of 5

- _____ 1.4.4 **IF** An oil filled transformer is involved in a fire,
- THEN** Request Oconee County Fire Department to dispatch the Keowee Key Fire Department to the site.
- Dial 9-911 from Ext. 3271 Operations Shift Manager's phone
- Dial 9-911 from Ext. 2159 Unit 1 Control Room SRO's phone
- Dial 911 from 882-7076 Units 1, 2 and 3 Control Rooms, Bell South lines
- _____ 1.5 **IF** The Fire Brigade identifies a fire requiring application of water for extinguishment,
- THEN** Turn on HPSW pumps to boost pressure and make a PA announcement to discontinue use of HPSW for non-essential purposes.
- _____ 1.6 **IF** Fire occurs on backshifts or weekends and additional Fire Brigade support is needed,
- THEN** Perform the following:
- _____ 1.6.1 Select the off duty shift(s) that will impact the safe operation of the plant the least by being recalled (i.e., shifts other than on coming shift).
- _____ A _____ B _____ C _____ D _____ E
- _____ 1.6.2 Call the Switchboard Operator and request them to call the shift(s) selected in Step 1.6.1.

<p>NOTE: All site phones except for the following are blocked from accessing the public 911 emergency service line.</p>

- _____ 1.7 **IF** Oconee County Fire Department assistance is needed,
- THEN** Dial 9-911 from Ext. 3271 Operations Shift Manager's phone
- Dial 9-911 from Ext. 2159 Unit 1 Control Room SRO's phone
- or
- Dial 911 from 882-7076 Units 1 /2 and 3 Control Rooms, Bell South lines

Enclosure 4.1
Fire Brigade Response - Routine Operations

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Page 4 of 5

_____ 1.7.1 Request a response from:

- Keowee Key Fire Department
- Keowee Ebenezer Fire Department
- Corinth-Shiloh Fire Department
- Give the fire location (building, parking lot, etc.) and best gate for entry to the fire department dispatch.
- Call Security (est. 2222) and request that they have a Security Officer escort the fire department to the fire location.

NOTE:

- Offsite fire departments are normally responsible for fire suppression activities outside the Protected Area. The Fire Brigade may provide limited support for a fire outside the Protected Area if resources allow.
- The Fire Plan for Keowee Hydro calls for sending the Fire Brigade to extinguish fires there.
- Security will automatically send a Security Officer to investigate alarms on fire detection systems that are monitored by Security in the PAP. Security will call the emergency line to report the existence of a fire or a need for further investigation by plant personnel as needed.

_____ 1.8 **IF** Fire is involved or suspected **OUTSIDE** the Protected Area,

THEN Call Security (ext. 2222) and request that a Security Officer be dispatched to the suspected fire location to verify fire location and nature of the fire.

Request Security Shift Supervisor to relay information back to the Control Room via the emergency line (4911).

_____ 1.8.1 **IF** Security confirms that there is a fire or the situation has the potential for developing into one,

THEN Send a Fire Brigade Leader and one Fire Brigade Member or the full Fire Brigade if resources allow.

Enclosure 4.1
Fire Brigade Response - Routine Operations

RP/0/B/1000/029
Page 5 of 5

NOTE: All site phones except for the following are blocked from accessing the public 911 emergency service line.

- _____ 1.8.2 **IF** Oconee County Fire Department assistance is needed,
- THEN** Dial 9-911 from Ext. 3271 Operations Shift Manager's phone
- Dial 9-911 from Ext. 2159 Unit 1 Control Room SRO's phone
- Dial 911 from 882-7076 Units 1/2 and 3 Control Rooms, Bell South line

- _____ 1.8.3 Request a response from:
- Keowee Key Fire Department
 - Keowee Ebenezer Fire Department
 - Corinth-Shiloh Fire Department
- Give the fire location (building, parking lot, etc.) and best gate for entry to the fire department dispatch.
 - Call Security (ext. 2222) and request that they have a Security Officer escort the fire department to the fire location.

NOTE: Keowee Hydro Station is located in Pickens County. Dialing 9-911 will **NOT** access the Pickens County Fire Dispatch.

- _____ 1.9 **IF** Six Mile Fire Department assistance is needed for a fire at Keowee Hydro Station,
- THEN** Call the Pickens County Sheriffs Department (898-5500) and request the response of Six Mile Fire Department to Keowee Hydro Station.
- Call Security (ext. 2222) and request that they have a Security Officer escort the fire department to the fire location.

NOTE: Fires/Explosions occurring within the plant may require declaration of an emergency classification.

- _____ 1.10 Refer to RP/0/B/1000/001, (Emergency Classification), for requirements on making emergency classification declarations.
- _____ 1.11 Return to Section 3, Subsequent Actions.

Enclosure 4.2
Fire Brigade Response - OSC/TSC Activation

Rp/0/B/1000/029
Page 1 of 5

1. Fire Brigade Response – OSC/TSC Activation

- Actions may be followed in any sequence.
- Lines left of procedure steps are used to indicate place in procedure.
- Check marks are acceptable in these blanks.
- Complete the procedure steps that apply to this incident.
- N/A steps not performed.

_____ 1.1 Complete the following with information taken from the Work Control Assistant who received the emergency line call:

Name/Group of person reporting fire _____

Location of fire _____

Equipment/components affected by fire _____

Time _____

Are there people in the immediate area who need to be warned or relocated to a safe area?

Are there any injured people? _____

Call back number _____

_____ 1.2 Make a PA announcement for personnel in the fire area to relocate from that area.

_____ 1.3 Refer to Fire Plan.

- Multiple reports from individuals
- Multiple alarms,
- Other system indications
- Any other indicators that the Emergency Coordinator deems significant.

THEN Send one (1) operator, with a radio, to the fire location to verify the fire location to the control room and/or perform actions to mitigate situation if they can be performed safely.

THEN Dispatch fire brigade members from the OSC/TSC, Control Rooms, etc. through a controlled process such that all members are accounted for and are informed of hazards associated with the emergency.

THEN Request Oconee County Fire Department to dispatch the Keowee Key Fire Department to the site.

Dial 9-911 from Ext. 2159 Unit 1 Control Room SRO's phone
Or

Dial -911 from 882-7076 Units 1 /2 and 3 Control Rooms, Bell South
lines

THEN Turn on HPSW pumps to boost pressure and make a PA announcement to discontinue use of HPSW for non-essential purposes.

Enclosure 4.2
Fire Brigade Response - OSC/TSC Activation

Rp/0/B/1000/029
Page 3 of 5

_____ 1.6 **IF** Fire occurs on backshifts or weekends and additional Fire Brigade support is needed,

THEN Perform the following:

_____ 1.6.1 Select the off duty shift(s) that will impact the safe operation of the plant the least by being recalled (i.e., shifts other than on coming shift).

 _____ A _____ B _____ C _____ D _____ E

_____ 1.6.2 Call the Switchboard Operator and request them to recall the shift(s) selected in step 1.6.1.

_____ 1.7 **IF** Oconee County Fire Department assistance is needed,

THEN Request that the Offsite Communicator call and request a fire department response from:

- Keowee Key Fire Department
- Keowee-Ebenezer Fire Department
- Corinth Shiloh Fire Department

_____ 1.7.1 Give the fire location (building, parking lot, etc.) and best gate for entry to the Offsite Communicator so that it can be given to the fire department dispatcher.

_____ 1.7.2 Request that a Security Officer meet and escort the fire department to the fire location.

- NOTE:**
- Offsite fire departments are normally responsible for fire suppression activities outside the Protected Area. The Fire Brigade may provide limited support for a fire outside the Protected Area if resources allow.
 - The Fire Plan for Keowee Hydro calls for sending the Fire Brigade to extinguish fires there.
 - Security will automatically send a Security Officer to investigate alarms on fire detection systems that are monitored by Security in the PAP. Security will call the emergency line to report the existence of a fire or a need for further investigation by plant personnel as needed.

- _____ 1.8 **IF** Fire is involved or suspected **OUTSIDE** the Protected Area,
- THEN** Request that a Security Officer be dispatched to the suspected fire location to verify the location and status of the fire. Request that information be relayed back to the OSC via the emergency line (4911).
- _____ 1.8.1 **IF** Security confirms that there is a fire or the situation has the potential for developing into one,
- THEN** Send a Fire Brigade Leader and one Fire Brigade Member or the full Fire Brigade if resources allow.
- _____ 1.8.2 **IF** Oconee County Fire Department assistance is needed,
- THEN** Request that the Offsite Communicator call and request a fire department response from:
- Keowee Key Fire Department
 - Keowee-Ebenezer Fire Department
 - Corinth Shiloh Fire Department
- _____ 1.8.3 Give the fire location (building, parking lot, etc.) and best gate for entry to the Offsite Communicator so that it can be given to the fire department dispatcher.
- _____ 1.8.4 Request that a Security Officer meet and escort the fire department to the fire location.

Enclosure 4.2
Fire Brigade Response - OSC/TSC Activation

Rp/0/B/1000/029
Page 5 of 5

NOTE: Keowee Hydro Station is located in Pickens County.

_____ 1.9 **IF** Six Mile Fire Department assistance is needed for a fire at Keowee Hydro Station,

THEN Request the Offsite Communicator call the Pickens County Sheriffs Department (898-5500) and request Six Mile Fire Department to respond to Keowee Hydro Station.

- Request that a Security Officer meet and escort the fire department to the fire location.

NOTE: Fires/Explosions occurring within the plant may require declaration of an emergency classification.
--

_____ 1.10 Refer to RP/0/B/1000/001, (Emergency Classification), for requirements on making emergency classification declarations.

_____ 1.11 Return to Section 3, Subsequent Actions.

Enclosure 4.3
Fire Emergency Report

Rp/0/B/1000/029
Page 1 of 1

FIRE EMERGENCY REPORT

Station/Location: _____ Date: _____

Location (Unit/Area): _____

Time Discovered: _____ Discovered By: _____

Operations Shift Manager: _____

Evacuation: Yes _____ No _____ Partial _____ Other _____

Fire Brigade Response: Yes _____ No _____

Time Fire Extinguished: _____

List All Fire Protection Equipment Used: _____

Operation Satisfactory: Yes _____ No _____ (Use Back For Details)

Equipment Restored For Use: Yes _____ No _____ If no, Explain (Use Back for Details)

Outside Assistance Called: No _____ Yes _____ Agency(s) _____

Area Involved: _____

Point of Origin (If known): _____

Cause (If known): _____

Damage To: _____

Building _____

Equipment _____

Personal _____

Other _____

Injuries Reported: _____

Briefly Describe What Happened: _____

*Signature of Fire Brigade Leader

*Signature of Operations Shift Manager

*Notify Safety Representative of Fires Involving Personal Injury (Refer to Duty List for after hours).

INFORMATION
ONLY

Engineering Directive 5.1

Review M. Q. Howe 4-16-01
Emergency Planning

Approval Bruce Hamilton 4/17/01
Engineering Manager

Original Date 5/27/92

Revised Date 4/17/01

DUKE POWER COMPANY
OCONEE NUCLEAR STATION
ENGINEERING EMERGENCY RESPONSE PLAN

1.0 Purpose

The purpose of this directive is to identify The Engineering Division responsibilities during an emergency at Oconee Nuclear Station. This directive is an implementation directive to the site emergency plan. Upon revision, a copy of this directive must be forwarded to Emergency Planning within seven (7) working days of its approval.

2.0 References

Oconee Nuclear Site Emergency Response Plan
NSD 117 Emergency Response Organization, Training, and Responsibilities

3.0 Definitions

- 3.1 Essential personnel: Personnel needed to mitigate the emergency as determined by the EOF, TSC, or OSC.
- 3.2 Engineering Emergency Response Person: Engineering personnel assigned to those positions in the EOF, TSC, or OSC listed in Sections 6.0 and 7.0 of this directive.

4.0 Responsibilities

- 4.1 Engineering Division Manager : The Engineering Division Manager shall be responsible for the implementation of this directive. During a site assembly he/she shall be responsible to account for all engineering personnel to the Security Shift Supervisor or designee.
- 4.2 Engineering Group Manager: During a site assembly each Engineering Group Manager shall be responsible to account for each person in his/her Group to the Engineering Division Manager or designee.
- 4.3 Engineering Supervisor: During a site assembly each Engineering Supervisor shall be responsible to account for each person on his/her team to his/her Engineering Group Manager or designee.
- 4.4 Engineering Emergency Response Person: When notified of EOF/TSC/OSC activation, the engineering emergency response persons will report to their assigned position in the EOF, TSC, or OSC. Notification during normally scheduled work hours will be by an announcement on the station PA system. Notification during unscheduled work hours will be by pager or Community Alert Network using the following:

PAGER CODES:

Blue Delta – EOF/TSC/OSC activated for a drill.

Blue Echo – EOF/TSC/OSC activated for an emergency.

NOTE: During flooding/dam failure/earthquake conditions assume bridges may be damaged; use caution.

Blue Delta Bridges – Pager message used when bridges may be damaged and EOF/TSC/OSC activation is needed. Use caution.

Blue Echo Bridges – Pager message used when EOF/TSC/OSC activated for an emergency and the bridges may be damaged; use caution.

Each engineering emergency response person will carry a pager which will be turned on when leaving the station and left on at all times. He/she will remain fit for duty at all times while serving duty as an engineering emergency response person, and will stay within required response times for his/her facility. For specifics, see NSD 117.

- 4.6 Employee: During a site assembly each employee will proceed to his/her site assembly location (generally the person's work area) and report to his/her supervisor within the specified time.

5.0 SITE ASSEMBLY AND EVACUATION

5.1 Site Assembly:

- 5.1.1 When a site assembly is commenced, a warbling tone will be broadcast over the Station PA system and the outdoor Site Assembly Horn will sound. All Engineering personnel shall immediately proceed to their site assembly location and report to his/her supervisor. Any person who cannot report to his/her designated area within eight (8) minutes of the commencement of the site assembly shall contact his/her supervisor by telephone for assembling instructions.
- 5.1.2 Personnel inside the Protected Area (PA) who must assemble at a location inside the PA or who cannot make it to their assembly point outside the PA shall card in at the nearest card reader, notify their supervisor of their location, and wait for further instructions.
- 5.1.3 Personnel working in an RCZ in protective clothing should leave the work area and go to the appropriate Change Room. Once in the Change Room area, they should card in (swipe their security badge) and contact their supervisor for accountability. Personnel should then follow the instructions of the RP personnel in the Change Room or RCZ.
- 5.1.4 Each Engineering Section Manager/Supervisor shall account for all personnel in his/her Section/Team and report the result to his/her

Engineering Group Manager or designee. Unaccounted for personnel shall be reported by name. This report should be made within 10 minutes of the commencement of the site assembly. Do NOT leave phone mail messages when reporting.

5.1.5 Each Engineering Group Manager shall account for all personnel in his/her Group and report the result to the Engineering Division Manager or designee. Unaccounted for personnel shall report by name. This report should be made within 15 minutes of the commencement of the site assembly. Do NOT leave phone mail messages when reporting.

5.1.6 The Engineering Division Manager or designee shall account for all Engineering personnel and report the result to the Security Shift Supervisor or designee. Do not report unaccounted for personnel by name at this time. This report shall be made within 20 minutes of the commencement of the site assembly.

5.1.7 During unscheduled work hours, each employee on site shall report to his/her assigned assembly area. If a Supervisor is present, the supervisor will call directly to the Security Shift Supervisor and report accountability within 15 minutes. If no Supervisor is present, the senior employee (or lone employee) will call the Security Shift Supervisor directly and report accountability. If working in an RCZ in protective clothing, proceed to the appropriate Change Room. Report to the individual in charge of the change room. If no one is in charge of the change room, call the Security Shift Supervisor directly and report accountability.

5.2 Site evacuation instructions

Initial Notification:

5.2.1 Site evacuation will be activated only after a site assembly. When it has been deemed necessary to evacuate the site, an announcement will be made on the PA system and a Lotus Note sent to group evacuation coordinators giving instructions for an evacuation.

- 5.2.2 The Engineering Evacuation Coordinator monitors LOTUS Notes during an emergency, passes evacuation information on to Engineering group administrative assistants, and gets acknowledgement back that the information has been received.

The Evacuation Coordinator also lets Engineering Managers know that they need to provide 24 hour coverage for their areas during the emergency, gets that information from the managers, and relays it to the TSC Engineering manager in the TSC.

- 5.2.3 The Engineering Section Manager/Supervisors will determine which, if any, essential personnel should not evacuate. This will be based on the needs communicated from the TSC or OSC.
- 5.2.4 The Engineering Section Managers/Supervisors, based on needs communicated from the TSC or OSC, will establish shift lead persons and a continuous 24 hour staffing schedule, and communicate this schedule to all personnel in their section/team.
- 5.2.5 The Engineering Section Managers/Supervisors will give evacuation instructions to all personnel in their sections/teams and implement the evacuation plan.

Accountability Notification:

- 5.2.6 The Engineering Section Managers/Supervisors will report to their respective Engineering Group Manager or designee if transportation assistance is needed. They will report which personnel, if any, have been deemed essential and their location along with their shift lead persons and continuous 24 hour staffing schedule to the Engineering Evacuation Coordinator and their respective Group Manager.
- 5.2.7 The Engineering Sections Managers/Supervisors or designee will report the status of their sections/teams to the Group Evacuation Coordinator.

NOTE: Subsequent Evacuations will be coordinated from the designated relocation area(s) per NSD 114.

6.0 Technical Support Center

- 6.1 The Technical Support Center (TSC) is located on the Unit 2 side of the Units 1&2 control room. When reporting to the TSC, pick up ED and TLD, go to the Unit 1 or 2 Control Room Lobby, and frisk for possible contamination before entering the Control Room.

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If evacuation from the TSC becomes necessary, report to the alternate TSC on the third floor, room 316, of the Oconee Office Building. Assume the same duties as in the Primary TSC.

6.2 Technical Assistant to Emergency Coordinator:

- 6.2.1 The Technical Assistant to Emergency Coordinator will report to the Emergency Coordinator. This position is staffed by the Mechanical and Civil Engineering Section (MCE). This position should be staffed within 75 minutes of the emergency declaration.

- 6.2.2 The Technical Assistant to Emergency Coordinator's main duty will be to maintain a log of activities in the TSC. This log will include systems and components status, decisions, and announcements made in the TSC. The Technical Assistant to Emergency Coordinator will also perform any other duties assigned by the Emergency Coordinator.

6.3 TSC/OSC Liaison

- 6.3.1 The TSC/OSC Liaison will report to the Emergency Coordinator. This position is staffed by Engineering within 75 minutes.

- 6.3.2 The TSC/OSC Liaison is responsible for communicating task priority and status information between the TSC and OSC.

6.4 Technical Assistant to TSC/OSC Liaison:

- 6.4.1 The Technical Assistant to TSC/OSC Liaison will report to the TSC/OSC Liaison. This position is staffed by Modification Engineering. Individuals

staffing this position will be contacted by the Community Alert Network (CAN) system.

6.4.2 The Technical Assistant to TSC/OSC Liaison will maintain the Plant status board in the TSC. The Technical Assistant to TSC/OSC Liaison will perform any other duties as assigned by the TSC/OSC Liaison.

6.5 Nuclear Engineer:

6.5.1 Reactor Systems Engineering will provide personnel for this position. This position is required by regulation with the person being available in the TSC within 75 minutes of the emergency declaration. This person is required to be in place prior to Control Room turnover to the TSC. The Nuclear Engineer will report to the TSC Engineering Manager in the TSC.

6.5.2 A second person from Reactor Systems Engineering will be called by the Community Alert Network System.

6.5.3 The Nuclear Engineer(s) will provide engineering support and recommendations in the following areas:

1. Reactor core physics
2. Shutdown margin calculations
3. Transient assessment functions via the transient monitors
4. Safety review function
5. Core damage assessment.

6.6 TSC Engineering Manager:

6.6.1 The TSC Engineering Manager should report to the TSC within 75 Minutes of emergency declaration and report to the Emergency Coordinator. The MCE Section is responsible for assuring this position is filled.

6.6.2 The TSC Engineering Manager will be responsible for providing engineering support required by the TSC. He/she will be responsible for resolving engineering problems. Also he/she will assure that any needed mechanical or electrical systems engineering personnel are contacted and given instruction on the necessary actions to be taken.

- 6.6.3 The TSC Engineering Manager will be responsible for making contact with the Accident Assessment Team in the Corporate Office to provide additional assessment expertise to the Technical Support Center.

6.7 Offsite Dose Assessment

- 6.7.1 The TSC Dose Assessment Liaison will report to the Emergency Coordinator in the TSC. He/she will be responsible for providing offsite Dose Assessment as needed and is to **report within 45 minutes of the emergency classification.**

- 6.7.2 The Offsite Dose Assessors report to the TSC Dose Assessment Liaison within 75 minutes of the emergency classification and provide dose assessment as needed.

6.8 Primary Systems Engineer and Balance of Plant (BOP) Systems Engineer

- 6.8.1 These individuals should report to the TSC within 75 minutes of emergency declaration and report to the TSC Engineering Manager.
- 6.8.2 These individuals will be responsible for providing primary and BOP systems support required by the TSC and will report to the TSC Engineering Manager.

7.0 Operational Support Center:

- 7.1 The Operational Support Center (OSC) is located at the back of the Unit 3 Control Room. When reporting to the OSC, carry ED and TLD, go to the Unit 3 Control Room Elevator Lobby, and frisk for possible contamination before entering the Control Room.

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- 7.2 If evacuation from the OSC becomes necessary, report to the alternate OSC located on the third floor, room 316A, of the Oconee Office Building. Assume the same duties as in the Primary OSC.

7.3 Equipment Engineering Support for OSC:

7.3.1 The RES Engineering Support duty person is required to report to the OSC within 75 minutes of emergency declaration. This position will report to the OSC Manager.

7.3.2 RES Engineering Support will be responsible for providing Electrical Engineering support for any work performed by the OSC. Should any Mechanical/Civil Engineering needs arise from the OSC, this person will inform the appropriate party.

8.0 Emergency Operations Facility:

8.1 The Emergency Operations Facility (EOF) is located in Clemson on Isaqueena Trail next to Duke's Southern Operation Center. TLDs and EDs are not required for this facility.

8.2 Offsite Dose Assessment

8.2.1 The Offsite Dose Assessment persons will report to the Radiological Assessment Manager in the EOF. They will be responsible for providing Offsite Dose Assessment as needed.

8.3 Technical Briefers:

8.3.1 The Technical Briefers will be notified as needed by the Joint Information Center (located at the EOF). They will report to the Technical Briefers Section Head in the Joint Information Center.

8.3.2 The Technical Briefers will be responsible for reading news releases or predeveloped messages for technical accuracy and responding to calls by following the rumor control procedure.

8.3.3 The Technical Briefers will keep the Technical Briefer Section Head informed of calls being received and assist in coordinating activities as needed.

8.3.4 The Technical Briefer position is filled by persons from across the organization who possess the skills needed.