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W. R. McCollum, Jr.
Vice President

March 27, 2000

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 2000-02

Please find attached for your use and review copies of the revision to the Oconee Nuclear Station Emergency Plan: Volume C Revision 2000-02, March, 2000.

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 Manger 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
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w/copy of attachments
Mr. Steven Baggett
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(w/o Attachments, Oconee Nuclear Station)
NRC Resident Inspector
M. D. Thorne, Manager, Emergency Planning

A045

March 27, 2000

OCONEE NUCLEAR SITE
INTRASITE LETTER

SUBJECT: Emergency Plan Implementing Procedures
Volume C, Revision 2000-02

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

REMOVE

Cover Sheet Rev. 2000-01

Table of Contents - Page 1

RP/0/B/1000/009 - 09/08/99

RP/0/B/1000/010 - 08/14/96

ADD

Cover Sheet Rev. 2000-02

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RP/0/B/1000/009 - 03/21/00

RP/0/B/1000/010 - 03/21/00

DUKE POWER

EMERGENCY PLAN IMPLEMENTING PROCEDURES VOLUME C



APPROVED:

W. W. Foster, Manager
Safety Assurance

03/27/00

Date Approved

03/27/00

Effective Date

VOLUME C
REVISION 2000-02
MARCH, 2000

VOLUME C
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HP/0/B/1009/020	Estimating Food Chain Doses Under Post Accident Conditions - (10/09/98)
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 Offsite Dose Projections (06/02/99)
RP/0/B/1000/001	Emergency Classification - (03/27/99)
RP/0/B/1000/002	Control Room Emergency Coordinator Procedure - (02/14/2000)
RP/0/B/1000/03A	ERDS Operation (12/03/98)
RP/0/B/1000/07	Security Event - (05/15/96)
RP/0/B/1000/009	Procedure for Site Assembly - (03/21/00)
RP/0/B/1000/10	Procedure for Emergency Evacuation/Relocation of Site Personnel -(03/21/00)
RP/0/B/1000/15A	Offsite Communications From The Control Room - (12/10/98)
RP/0/B/1000/15B	Offsite Communications From The Technical Support Center - (12/10/98)
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RP/0/B/1000/16	Medical Response - (05/27/99)
RP/0/B/1000/17	Spill Response (02/12/98)
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RP/0/B/1000/20	Emergency Operations Facility Director Procedure - (12/11/98)

Revision 2000-02
March, 2000

INFORMATION ONLY

Duke Power Company
PROCEDURE PROCESS RECORD

(1) ID No. RP/0/B/1000/009

Revision No. 4

PREPARATION

(2) Station OCONEE NUCLEAR STATION

(3) Procedure Title Procedure For Site Assembly

(4) Prepared By Ray Waterman Date 2/21-00

- (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 Robert Taylor (QR) Date 3/16/00

Cross-Disciplinary Review By _____ (QR)NA RET Date 3/16/00

Reactivity Mgmt. Review By _____ (QR)NA RET Date 3/16/00

(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. D. Jones Date 3-21-2000

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)

<p>Duke Power Company Oconee Nuclear Site</p> <p>Procedure for Site Assembly</p> <p>Reference Use</p>	Procedure No. RP/0/B/1000/009
	Revision No. 004
	Electronic Reference No. OX002WP1

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 three (3) 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 evacuation or a site evacuation may be required.

2. Immediate Actions

- 2.1 (Action Plan for Emergency Coordinator), Enclosure 4.1
- 2.2 (Action Plan for Security Supervisor), Enclosure 4.2
- 2.3 Make announcements over the Public Address System, Enclosure 4.3, (Public Address Announcement)
- 2.4 Activate the outside Site Assembly Horn to notify personnel outside the reach of the PA System.
- 2.5 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.)
- 2.6 (Action Plan for Offsite Communicator), Enclosure 4.5.

3. Subsequent Actions

- 3.1 (Action Plan for Onsite Personnel), Enclosure 4.4
- 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/B/1000/010 (Procedure for Emergency Evacuation/Relocation).

4. Enclosures

- 4.1 Action Plan for Emergency Coordinator
- 4.2 Action Plan for Security Supervisor/ Designated Officer
- 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

Action Plan for Emergency Coordinator

1. Action Plan For Emergency Coordinator

- ___ 1.1 Alert Security Supervisor that a Site Assembly will be initiated.
- ___ 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 Security 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/B/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.

Action Plan for Security Supervisor

1. Action Plan For Security Supervisor

- 1.1 Contact the World Of Energy, Keowee Hydro, Oconee Complex, Motor Pool, and the Oconee 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.

NOTE: Should site assembly be initiated during high traffic ingress and egress, traffic flow will not be restricted.

- 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 4.7, (Site Accountability Log).
- 1.5 Report accountability results within 30 minutes (sooner if completed) to Offsite Communicator if the TSC is activated, Control Room OSM Emergency Coordinator if TSC is not activated.
 - 1.5.1 Provide an update of site assembly status if requested.
- 1.6 Fax Enclosure 4.7, (Site Accountability Log) to ext. 4308 upon completion of site accountability.

NOTE: Report names of all unaccounted personnel. However, in the event large numbers of personnel are unaccounted for, names may not initially be provided.

- 1.7 Report total accountability to the TSC Offsite Communicator or Emergency Coordinator within 30 minutes of the time the assembly was initiated. Report the number(s) and name(s) of any missing person(s).
- 1.8 Coordinate a search and rescue effort if directed.
 - 1.8.1 Utilize MERT for this purpose.
- 1.9 Contact the World of Energy, Keowee Hydro, Oconee Complex, Motor Pool, and the Oconee Training Center to make them aware of Site Assembly completion.
- 1.10 Coordinate evacuation if so instructed.

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

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 ROLM 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, Operational Support Center, and Emergency Operations Facility 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."

"ACTIVATE THE EMERGENCY OPERATIONS FACILITY"

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 2.1.1 for personnel accountability reporting. Wait in change room for further instructions concerning the advisability of changing clothes and reporting to normal assembly areas.

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)

Supervisors should report their accountability within 8 to 10 minutes.

Superintendents/Managers shall report for their group and give names of any persons not accounted for within 20 minutes. Completion of station accountability shall be made within 30 minutes.

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

2.1.1 Each supervisor shall be responsible for accounting for all assigned personnel.

A. Each reporting supervisor or designee is to report accountability 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 for provide number of missing to Security, Security will call back for names.

Action Plan For Onsite Personnel

- 2.1.2 Station Superintendents/Supervisors of various organizations working at Oconee (ESS, Bartlett, Communications, Power Delivery, World of Energy, Keowee Hydro, and Framatome) 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 is to report:
- 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. Supervisors shall report accountability to the Security Supervisor by calling extension 5050 and following instructions.

1. Action Plan For Offsite Communicator

- 1.1 Obtain accountability results from the Security Shift Supervisor on Enclosure 4.7 (Site Accountability Log).
- 1.2 Provide 20 minute accountability to Emergency Coordinator.
 - Site Assembly update
- 1.3 Provide 30 minute accountability to Emergency Coordinator
 - Number and names, (if available), of unaccounted for personnel.

DUKE OCONEE NUCLEAR SITE PERSONNEL

<u>SECTION</u>	<u>ASSEMBLY POINT</u>
<u>Site Vice President's Group:</u>	
Site Vice President/Managers and Assigned Staff/Clerks:	Admin Building
<u>Chemistry:</u>	
Chemistry Staff and Technicians	Chemistry Offices
Chemistry Shifts A,B,C,D,E (On-Duty)	Radwaste Facility
Radwaste Staff and Technicians	Radwaste Facility
<u>Maintenance:</u>	
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 th Floor Turbine Bd.
Mech Maintenance SPOC Crew	Work Control Center/OSC
(On-Duty Shift A,B,C,D,E)	
Mech Maintenance Staff, Supervisors, and Technicians	Mechanical Offices
<u>Operations:</u>	
All	Control Rooms/Ops' Offices
<u>Radiation Protection:</u>	
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
<u>Work Control:</u>	
All	Work Control Offices
<u>Engineering:</u>	
All	Engineering Offices
<u>Commodities & Facilities:</u>	
All	C&F Offices

Enclosure 4.6
Site Assembly Locations

RP/0/B/1000/009
Page 2 of 5

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 Training Center
Maintenance Training Facility

Human Resources:

All (except for Security)

Human Resources
Security Offices

Community Relations:

All

WOE Offices

Business Management:

All

Business Management

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

<u>SECTION</u>	<u>ASSEMBLY POINT</u>
<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>ESS:</u>	
<u>Quality Verification:</u>	Safety Assurance Offices
<u>Electric System Support</u>	
Personnel Inside Protected Area	Maint. Support Bldg Canteen
Personnel Outside Protected Area	ESS Offices
<u>Transportation Department:</u>	
Personnel Inside Protected Area	Maintenance Support Building
Personnel Outside Protected Area	Transportation Offices/Garage
<u>Geo-Tech</u>	Complex

DUKE NON-OCONEE NUCLEAR SITE PERSONNEL

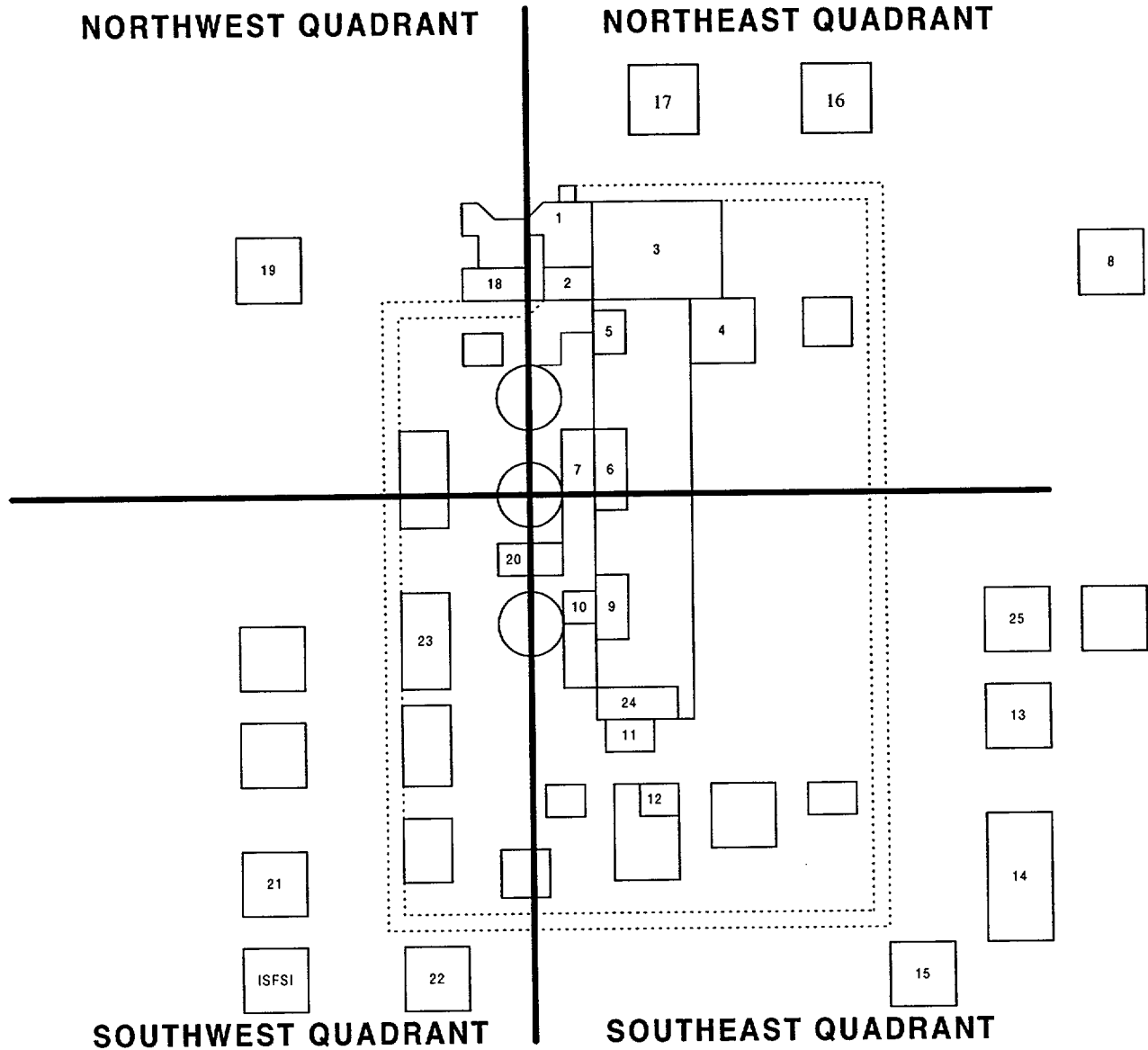
<u>SECTION</u>	<u>ASSEMBLY POINT</u>
<u>Engineering:</u>	Engineering Offices
<u>Maintenance:</u> Personnel Outside Protected Area	Maintenance Offices 2 nd Floor Maint. Support Building
<u>Bartlett:</u> Personnel Inside Protected Area Personnel Outside Protected Area	Maintenance Support Building Canteen Bartlett Offices
<u>Framatome:</u>	Framatome Office
<u>Maintenance Vendors:</u> Personnel Inside Protected Area Personnel Outside Protected Area	Maintenance Support Building Canteen Station Contact Group
<u>I&E Vendors:</u>	Maintenance Support Building Canteen
<u>Radiation Protection Vendors:</u>	RP Offices
<u>NRC:</u> All	 NRC Offices
<u>Food Service Vendor:</u> Personnel Inside Protected Area Personnel Outside Protected Area	Maintenance Support Building Canteen Admin. Bldg Canteen

VISITORS

Personnel Inside Protected Area with Escort	Assemble with escort
Personnel Outside Protected Area	Assemble with Station Contact

OTHER PERSONNEL OUTSIDE PROTECTED AREA

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



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 4.7
Site Accountability Log

1. Site Accountability Log

NOTE: Information is acquired from phone mail #5050.

Instructions: dial 4444, then 5050#, then 7318#, then 3, and listen to message

Work Group	Contacts Name	ACCOUNTABILITY RESULTS		
		Phone #	30 min.	Names of Missing
Bartlett				
Business Management				
Chemistry				
Commodities & Facilities				
Engineering/LIT				
Electric System Support (ESS)				
Human Resources/Security				
Keowee Hydro				
Mechanical Maintenance				
Operations				
Radiation Protection				
Safety Assurance Station Mgr., & Training				
World of Energy				
Work Control				

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 side of column Q-73
EP CR # 12	Unit 2 Control Room - on south wall of corridor between kitchen and TSC entrance
EP CR # 13	Unit 3 Control Room – on north side of column Q-89
EP CR # 14	Unit 3 Control Room – on south wall of corridor between kitchen and OSC
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

INFORMATION ONLY

Duke Power Company
PROCEDURE PROCESS RECORD

(1) ID No RP/0/B/1000/010

Revision No 003002
(DK 3/23/00)

PREPARATION

(2) Station OCONEE NUCLEAR STATION

(3) Procedure Title Procedure For Emergency Evacuation/Releocation of Site Personnel

(4) Prepared By Ray Waterman (Signature) Ray Waterman Date 02/21/2000

- (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 Robert Taylor (QR) Date 3/20/2000

Cross-Disciplinary Review By _____ (QR)NA _____ Date _____

Reactivity Mgmt. Review By _____ (QR)NA _____ Date _____

(7) Additional Reviews

Reviewed By _____ Date _____

Reviewed By _____ Date _____

(8) Temporary Approval (if necessary)

By _____ (SRO/QR) Date _____

By _____ (QR) Date _____

(9) Approved By M. D. Thome Date 3-21-2000

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:
- 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 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 _____

Procedure Completion Approved _____ Date _____

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

<p style="text-align: center;">Duke Power Company Oconee Nuclear Site</p> <p style="text-align: center;">Procedure For Emergency Evacuation/Relocation of Site Personnel</p> <p style="text-align: center;">Reference Use</p>	Procedure No. RP/0/B/1000/010
	Revision No. <p style="text-align: right;">002</p>
	Electronic Reference No. <p style="text-align: right;">OX002WP2</p>

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 (3) 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

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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.

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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 (Commodities & Facilities) 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.

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 Commodities and Facilities 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 (C&F) 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.

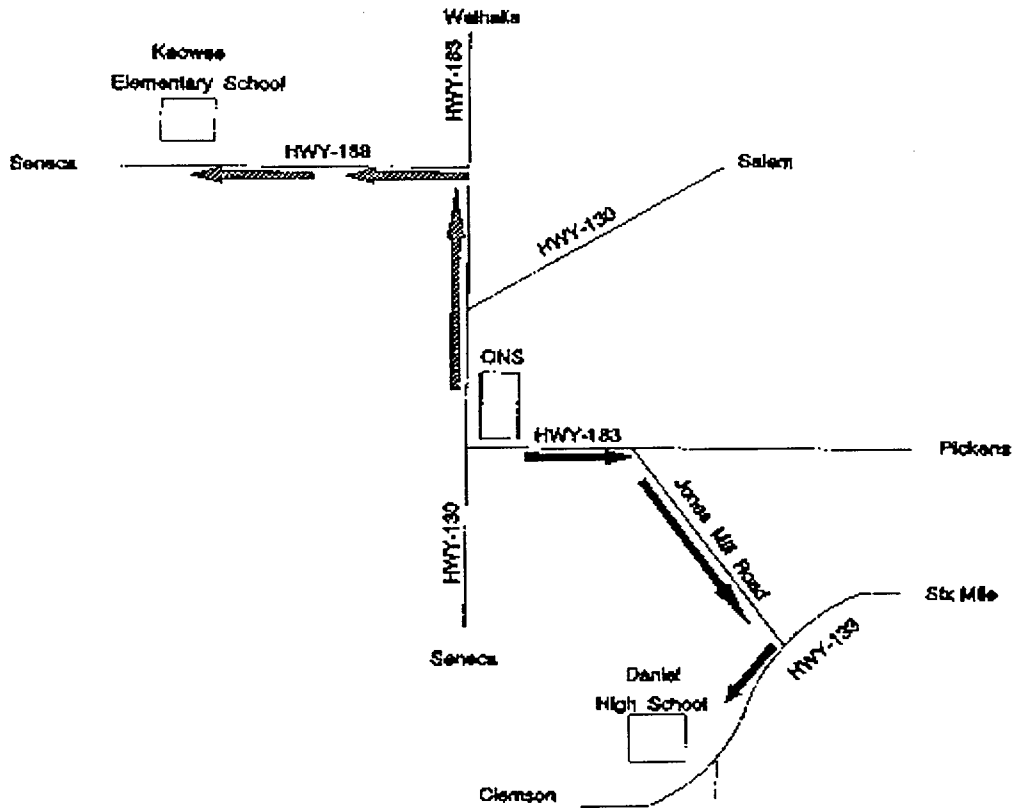
CATEGORY 3

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.

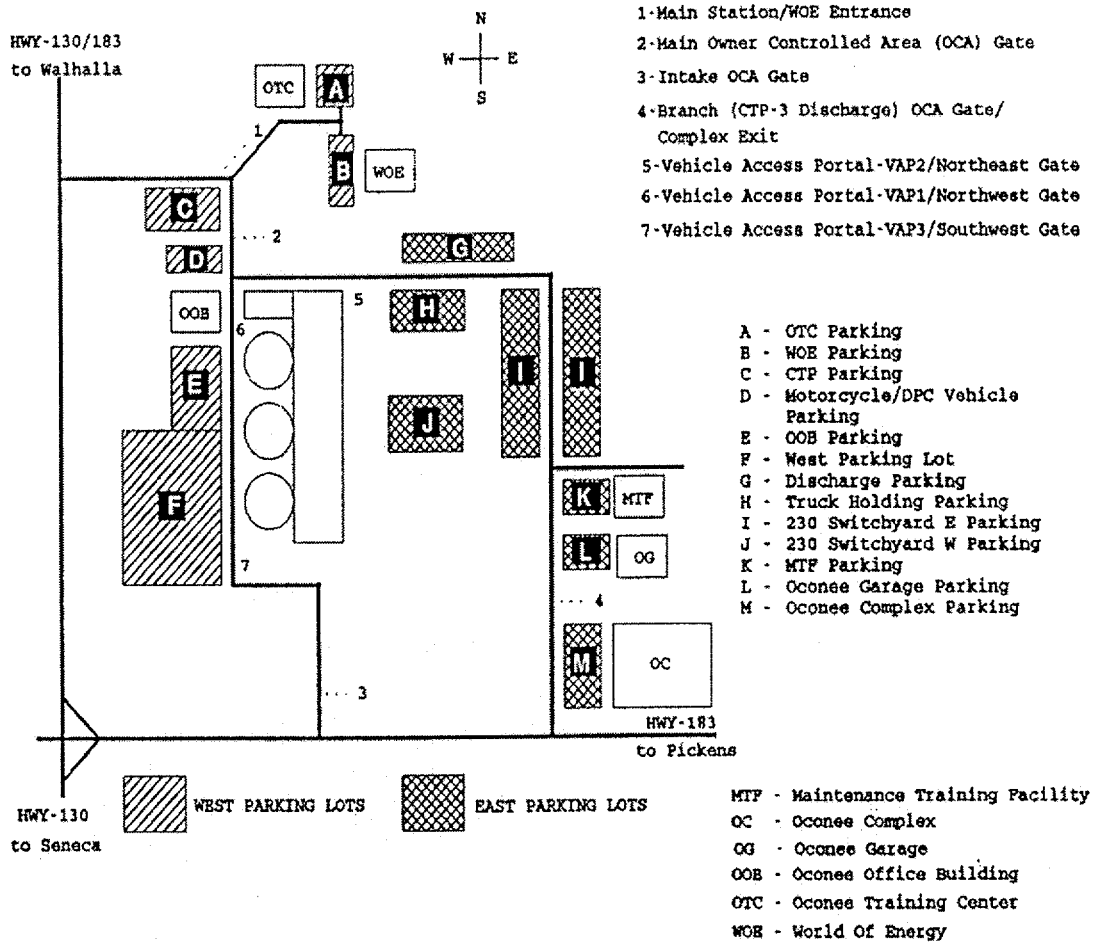
Enclosure 4.5
Emergency Evacuation Routes

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EMERGENCY EVACUATION ROUTES



1. SITE PARKING LOT/ACCESS DESIGNATIONS



1. Site Evacuation/Relocation Plan A (ALPHA)

SITE EVACUATION/RELOCATION PLAN A (ALPHA)				
<p>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.</p>				
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:				
<p>PARKING LOTS AVAILABLE FOR USE: _____ East Parking Lots _____ West Parking Lots</p>				
<p>The map shows a central industrial area with several buildings labeled A through M. To the west are the West Parking Lots and to the east are the East Parking Lots. A north-south road (RMV-110/183) runs along the left side, and an east-west road (RMV-183) runs along the bottom. A legend on the right side of the map defines the labels: A - OTC Parking, B - WOE Parking, C - CTF Parking, D - Motorcycle/DPC Vehicle Parking, E - OOB Parking, F - West Parking Lot, G - Discharge Parking, H - Truck Holding Parking, I - 230 Switchyard E Parking, J - 230 Switchyard W Parking, K - MTF Parking, L - Ocone Garage Parking, M - Ocone Complex Parking. Other labels include OTC, MCB, OOB, OOT, and OC. A compass rose indicates North, South, East, and West. A note at the bottom right defines MTF, OC, OCG, OOB, OTC, and MCB.</p>				
DECONTAMINATION CENTER/POST EVACUATION ASSEMBLY LOCATION:				
1. Personal Residence	2. Daniel High School	3. Keowee Elementary	4. Ocone Complex	5. Ocone Training Center
Transportation Required	Transportation Required	Transportation Required	Transportation NOT Required	Transportation NOT Required
EVACUATION INSTRUCTIONS:				

1. Evacuation/Relocation Plan B (BROVO)

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.

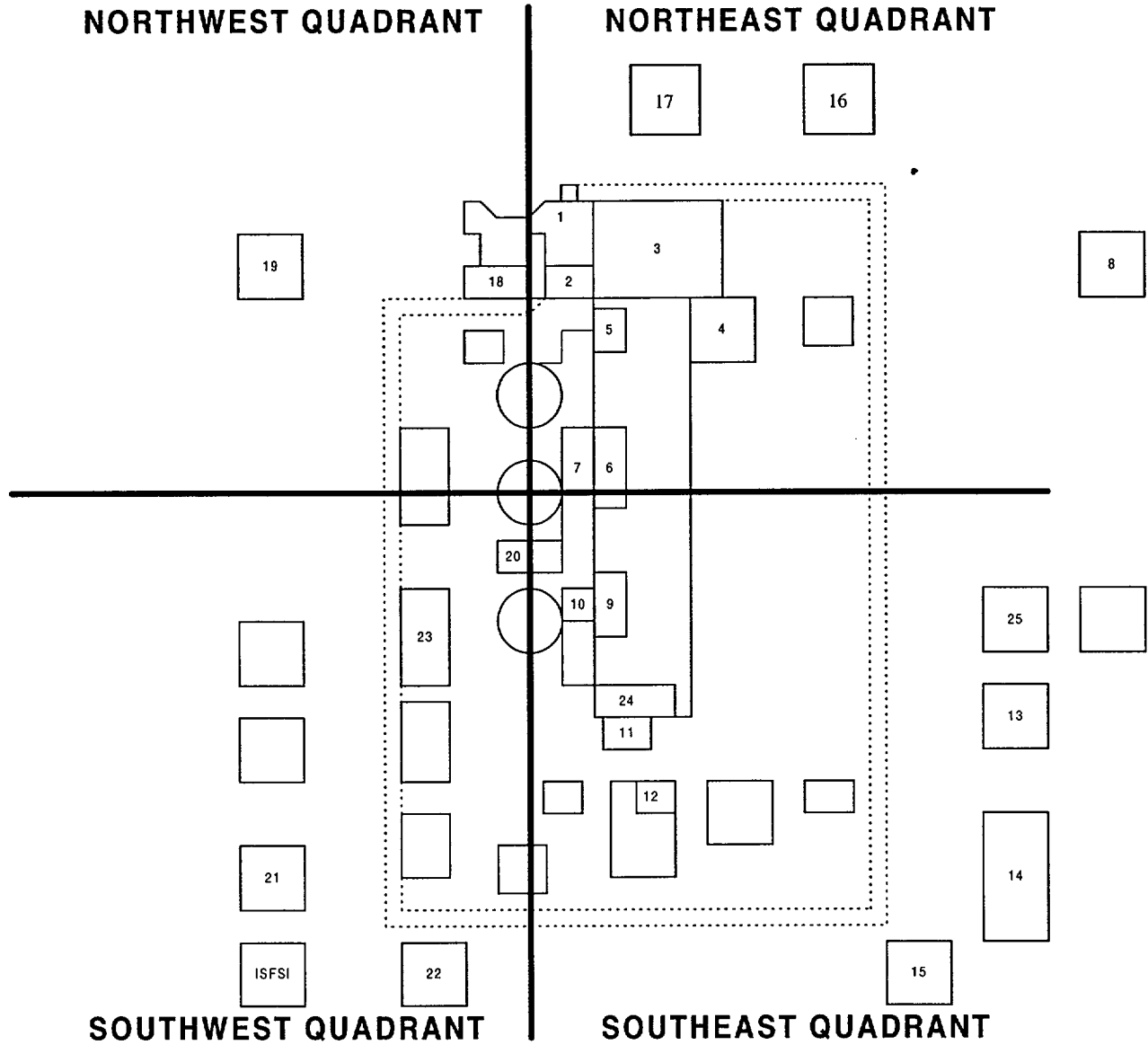
Best Evacuation/Relocation Assembly Locations

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

Oconee Complex Room Assignments

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	Commodities & Facilities *
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

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 Commodities & Facilities
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:
