

March 17, 2003

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 2003-03

Please find attached for your use and review copies of the revision to the Oconee Nuclear Station Emergency Plan: Volume C Revision 2003-03, March 2003.

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 Rodney Brown, Emergency Planning Manager at 864-885-3301.

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

Very truly yours,



R. A. Jones.  
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. James R. Hall  
Rockville, Maryland

(w/o Attachments, Oconee Nuclear Station)  
NRC Resident Inspector  
J. R. Brown, Manager, Emergency Planning

AD45

March 17, 2003

OCONEE NUCLEAR SITE  
INTRASITE LETTER

SUBJECT: Emergency Plan Implementing Procedures  
Volume C, Revision 2003-03

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

REMOVE

Cover Sheet - Rev. 2003 02

Table of Contents, Page 1 & 2

RP/0/B/1000/010 - 04/24/01

RP/0/B/1000/029 - 11/21/02

ADD

Cover Sheet Rev. 2003-03

Table of Contents, Page 1 & 2

RP/0/B/1000/010 - 02/26/03

RP/0/B/1000/029 - 03/13/03

**DUKE POWER**

**EMERGENCY PLAN**  
**IMPLEMENTING PROCEDURES**  
**VOLUME C**



**APPROVED:**

*W. W. Foster*

W. W. Foster, Manager  
Safety Assurance

*3/14/03*

Date Approved

03/17/2003

Effective Date

**VOLUME C**  
**REVISION 2003-03**  
**March 2003**

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NSD 703 (R04-01)  
**INFORMATION  
ONLY**

Duke Power Company  
**PROCEDURE PROCESS RECORD**

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

Revision No 4

**SEPARATION**

- (2) Station OCONEE NUCLEAR STATION
- (3) Procedure Title Procedure for Emergency Evacuation/Relocation of Site Personnel
- (4) Prepared By Ray Waterman (Signature) Ray Waterman Date 2-18-03
- (5) Requires NSD 228 Applicability Determination?  
☐ Yes (New procedure or revision with major changes)  
☒ No (Revision with minor changes)  
☐ No (To incorporate previously approved changes)
- (6) Reviewed By M. R. Howe (QR) Date 2-19-03  
Cross-Disciplinary Review By \_\_\_\_\_ (QR) NA MOT Date 2-19-03  
Reactivity Mgmt Review By \_\_\_\_\_ (QR) NA MOT Date 2-19-03  
Mgmt Involvement Review By \_\_\_\_\_ (Ops Supt) NA \_\_\_\_\_ Date \_\_\_\_\_
- (7) Additional Reviews  
Reviewed By \_\_\_\_\_ Date \_\_\_\_\_  
Reviewed By \_\_\_\_\_ Date \_\_\_\_\_
- (8) Temporary Approval (*if necessary*)  
By \_\_\_\_\_ (OSM/QR) Date \_\_\_\_\_  
By \_\_\_\_\_ (QR) Date \_\_\_\_\_
- (9) Approved By Rodney Brown Date 02/26/03

**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 Required 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*)

<b>Duke Power Company</b> <b>Oconee Nuclear Site</b>  <b>Procedure For Emergency Evacuation/Relocation of Site</b> <b>Personnel</b>  <b>Reference Use</b>	Procedure No. <b>RP/0/B/1000/010</b>
	Revision No. 004
	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 seven (7) 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

This procedure describes the symptoms needed to take actions for relocation/evacuation of general public or category 1, 2 & 3 personnel, Enclosure 4.4 (Categories of Personnel).

- General Public and Category 1 Enclosure 4.4, (Categories of Personnel)

**NOTE:** As a result of any of the below Emergency Coordinator may decide to evacuate/relocate General Public and Category 1 personnel

- Whole body Radiation Dose > 2mrem/hr in any area outside Protected Area Boundary.
- Airborne Radioactivity 0.8 DAC (2mrem/hr) in any area outside Protected Area Boundary.(10CFR20)
- Flammable gas/toxic chemical release/spill that affects personnel safety
- Site Area Emergency (potential for system failure resulting in radiation exposure or dam failure)
- General Emergency
- Category 2 and 3, Enclosure 4.4, (Categories of Personnel).

**NOTE:** Doses with the potential to exceed annual limits in any area of the plant as a result of an accident or emergency. Doses received to mitigate the recovery process of an accident or emergency must be approved.

- Whole body Radiation Dose Level 2.5 mrem/hr, with potential to exceed annual limits
- Airborne Radioactivity equivalent 1 DAC/hr for 40 hrs/week with potential to exceed annual limit
- General Emergency
- 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
- 4.13 Definitions
- 4.14 References

**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/or relocation, 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/or relocated 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 Enter evacuation/relocation plan information into computer application for distribution to group evacuation coordinators.
  - 1.3.2 Dose Assessment determines relocation or site evacuation access routes. This information is provided to the Assistant to RP Manager in the OSC.
  - 1.3.3 The RP Manager determines the evacuation/relocation time for each category. This information is provided to the Assistant to RP Manager.
  - 1.3.4 The Assistant to RP Manager evaluates plant radiological conditions and along with the information provided by Dose Assessment determines the appropriate Evacuation/Relocation Plan (Enclosure 4.7 or 4.8) to be utilized. This information is provided to the TSC Off-Site Communicator along with the evacuation/relocation time for each category.
    - A. Evacuation/Relocation plan information can be found on DAE for anyone with computer access. Group Evacuation Coordinators will then forward evacuation plan information to groups they are responsible for.

**Enclosure 4.1**  
**Radiological Emergency Requiring**  
**Relocation/Evacuation**

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- 1.3.5 If the OSC Security Liaison is unavailable, the RP Manager shall contact the Security Shift Supervisor for support with Steps 1.3.5 and 1.3.7.
- 1.3.6 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.
- 1.3.7 Security Shift Supervisor will notify OSC Security Liaison when evacuation of specific locations or site is complete.
- 1.3.8 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.
- 1.3.9 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 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 4.10 (Oconee Complex Room Assignments) and 4.11 (Oconee Training Center Room Assignments).
  - 1.4.3 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.

**Enclosure 4.1**  
**Radiological Emergency Requiring**  
**Relocation/Evacuation**

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**Group Evacuation Coordinator Responsibilities:**

- 1.5.2 Evacuation/Relocation can only occur after Site Assembly. The following information will be needed:
  - Assembly locations(s) of groups you are responsible for.
  - Phone numbers to contact groups you are responsible for.
  - If you are not a Site Assembly Coordinator you will need to contact correct person for this information.
- 1.5.3 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.
- 1.5.4 Coordinate transportation efforts for group. Notify the TSC Offsite Communicator at extension 3706 of any transportation problems.
- 1.5.5 Evacuate/relocate personnel as directed by instructions.
- 1.5.6 Report the status of Evacuation/Relocation to phone mail 5094, this status will be retrieved by Emergency Planning person in TSC.
  - 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.
- 1.6 Emergency Planning
  - 1.6.1 Retrieved evacuation/relocation status from phone mailbox at extension #5094.  
{1}
    - \_\_\_\_\_ Dial 4444
    - \_\_\_\_\_ then 5094
    - \_\_\_\_\_ then password 5094#
    - \_\_\_\_\_ then 3 to listen
    - \_\_\_\_\_ Give this information to Emergency Coordinator

## **1. Hazardous Waste Storage Area Relocation**

**NOTE:** Managers can use Evacuation Coordinators for hazardous waste emergency relocations.

### **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**

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

### **2.1 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 or any other facility housing personnel in that area.

<b>NOTE:</b> All telephone numbers can be found in the Emergency Telephone Directory.
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2.1.1 Keowee personnel will be relocated to the OSC if events occur where their safety could be affected.

2.1.2 Personnel located at the following locations will relocate to the World of Energy/Operations Training Center.

- Oconee Complex
- Oconee Garage
- Oconee Maintenance Training Facility
- Security Firing Range/track
- WHSE #5A
- Old Pickens Church Cemetery.
- Any other facility housing personnel in flood zone area

2.2 TSC Emergency Coordinator's responsibilities:

2.2.1 Request the Offsite Communicator to notify Assistant to RP Manager (OSC) to prepare an evacuation plan for imminent dam failure.

2.3 Offsite Communicator's responsibilities:

2.3.1 Notify Assistant to RP Manager at OSC and request an Evacuation Plan for imminent Dam failure.

2.3.2 Receive evacuation plan from RP and make TSC Emergency Coordinator aware.

2.3.3 Provide PA announcement to site personnel, concerning affected areas and Evacuation/Relocation plan.

2.3.4 Notify TSC/OSC Liaison if OSC (SSG) support is required for assistance with transportation needs.

**Enclosure 4.3**  
**Actual/Imminent Dam Failure For Keowee**  
**Hydro Project Dams/Dikes**

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**Radiation Protection (RP) responsibilities:**

- 2.3.5 Prepare Enclosure 4.8, (Evacuation/Relocation Plan B) (BRAVO) to be utilized.
- 2.3.6 Enter Evacuation/Relocation plan information into computer application for distribution to Group Evacuation Coordinators
- 2.3.7 Notify TSC Offsite Communicator once Evacuation/Relocation Plan is available on computers.
- 2.3.8 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}
- 2.4 Group Evacuation Coordinators responsibilities:
  - 2.4.1 Receive communication by Superintendents/Managers once PA announcements have been made to evacuate affected area.
  - 2.4.2 Ensure all sections within their group receive Evacuation/Relocation information and which plan is in effect.
  - 2.4.3 Coordinate transportation efforts for group. Notify Offsite Communicator of any transportation problems.
  - 2.4.4 Report status of Evacuation/Relocation efforts to phone mail #5094, this status will be retrieved by Emergency Planning person in TSC.
- 2.5 Security responsibilities:
  - 2.5.1 If the OSC Security Liaison is unavailable, the Security Officer should provide this information to the Security Shift Supervisor.
  - 2.5.2 Security will be notified to alert personnel at Security track/firing range and Warehouse #5A and to relocate to work areas inside the plant.
  - 2.5.3 Patrol site general areas to assure alert relocation instructions are being followed.
  - 2.5.4 Direct traffic to correspond with identified exit routes.
  - 2.5.5 Provide the OSC Security Liaison with information concerning the status of relocation of personnel.
  - 2.5.6 Patrol/secure access to Old Pickens Church/Cemetery for situations concerning dam failure.
- 2.6 Emergency Planning
  - 2.6.1 Retrieved evacuation/relocation status from phone mailbox at extension #5094.  
{1}
    - \_\_\_\_\_ Dial 4444
    - \_\_\_\_\_ then 5094
    - \_\_\_\_\_ then password 5094#
    - \_\_\_\_\_ then 3 to listen
    - \_\_\_\_\_ Give this information to Emergency Coordinator



## 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.

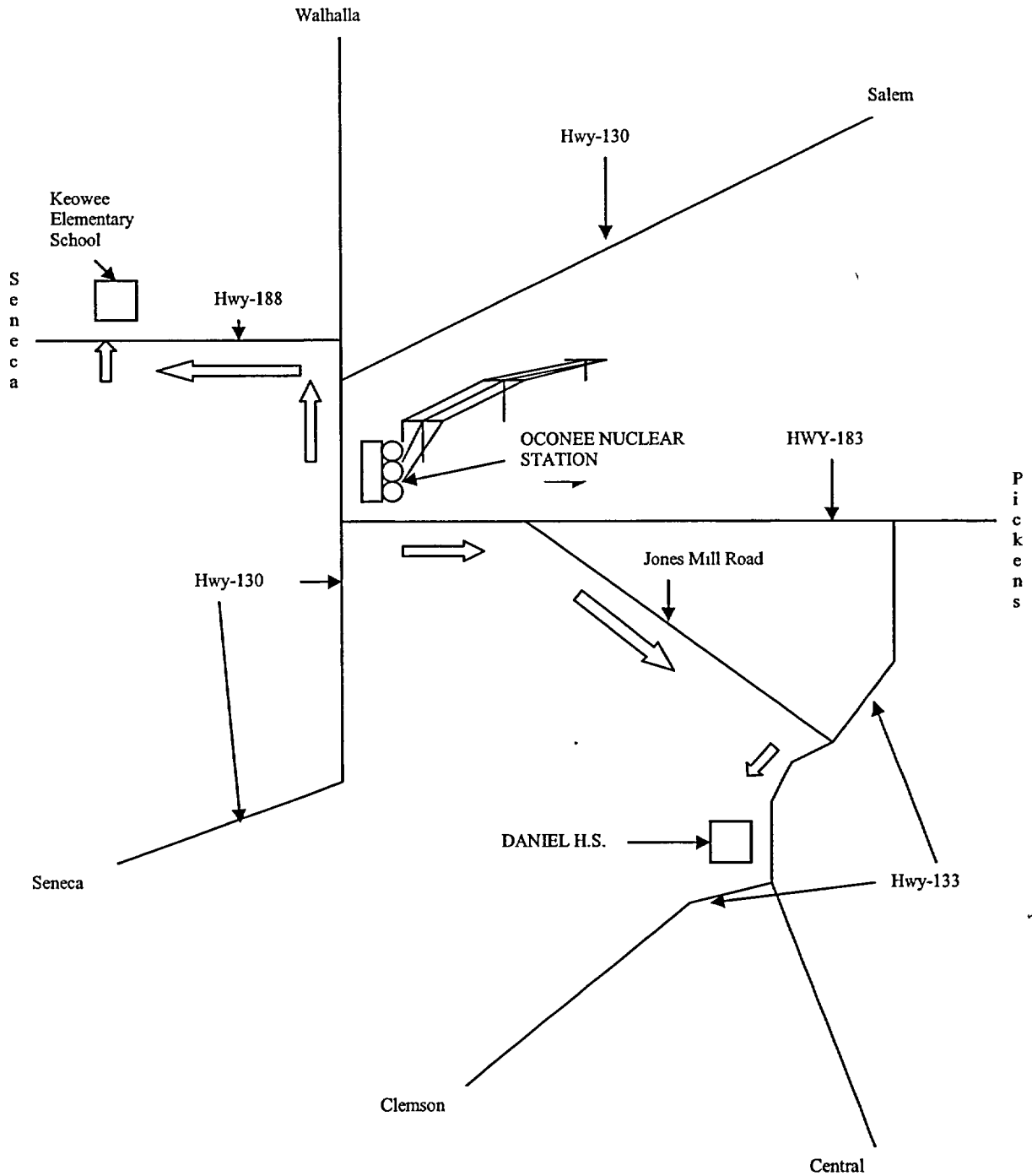
### CATEGORY 3

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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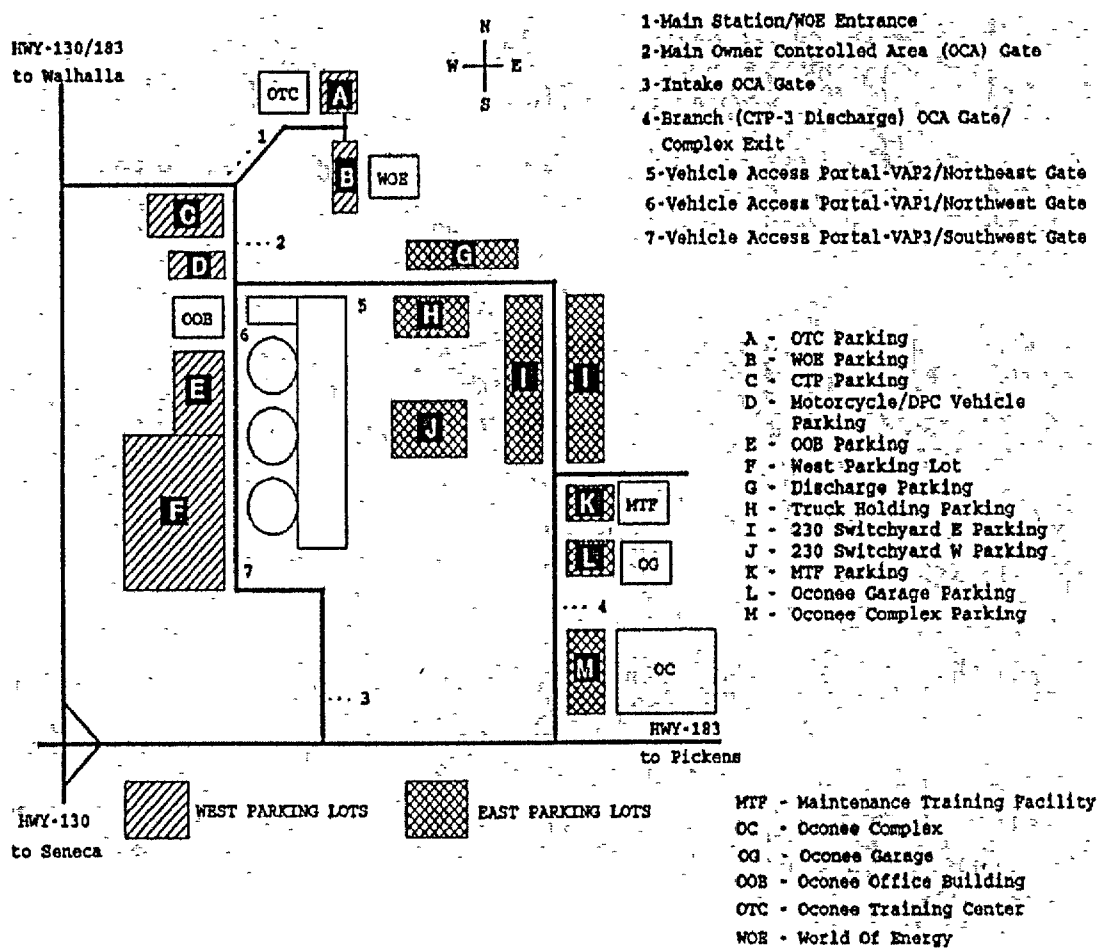
1. EMERGENCY EVACUATION ROUTES



Enclosure 4.6  
Site Parking Lot/Access Designations

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## 1. SITE PARKING LOT/ACCESS DESIGNATIONS



## 1. Site Evacuation/Relocation Plan A (ALPHA)

**SITE EVACUATION/RELOCATION PLAN A (ALPHA)**

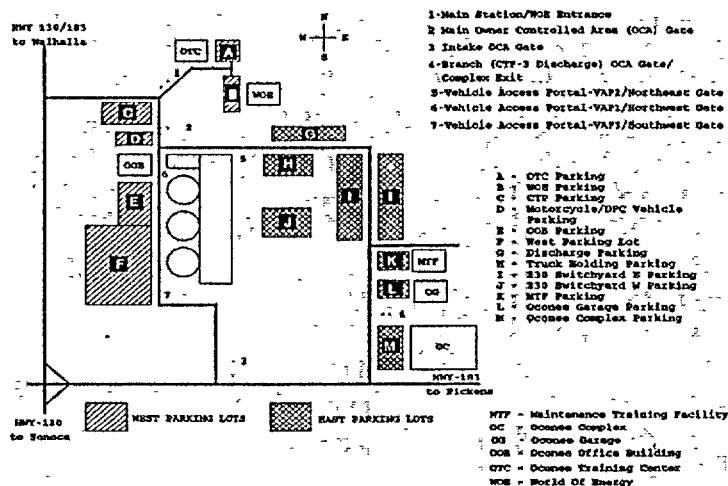
**PLANT STATUS:** Conditions exist that require Evacuation/Relocation of non-essential personnel and members of the general public from the plant site. Radioactive release \_\_\_\_\_ occurring at this time.

**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:**

**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 any other facility housing personnel in that area.

**Best Evacuation/Relocation Assembly Locations**

Operations Training Facility and World of Energy.

Evacuation Instruction:

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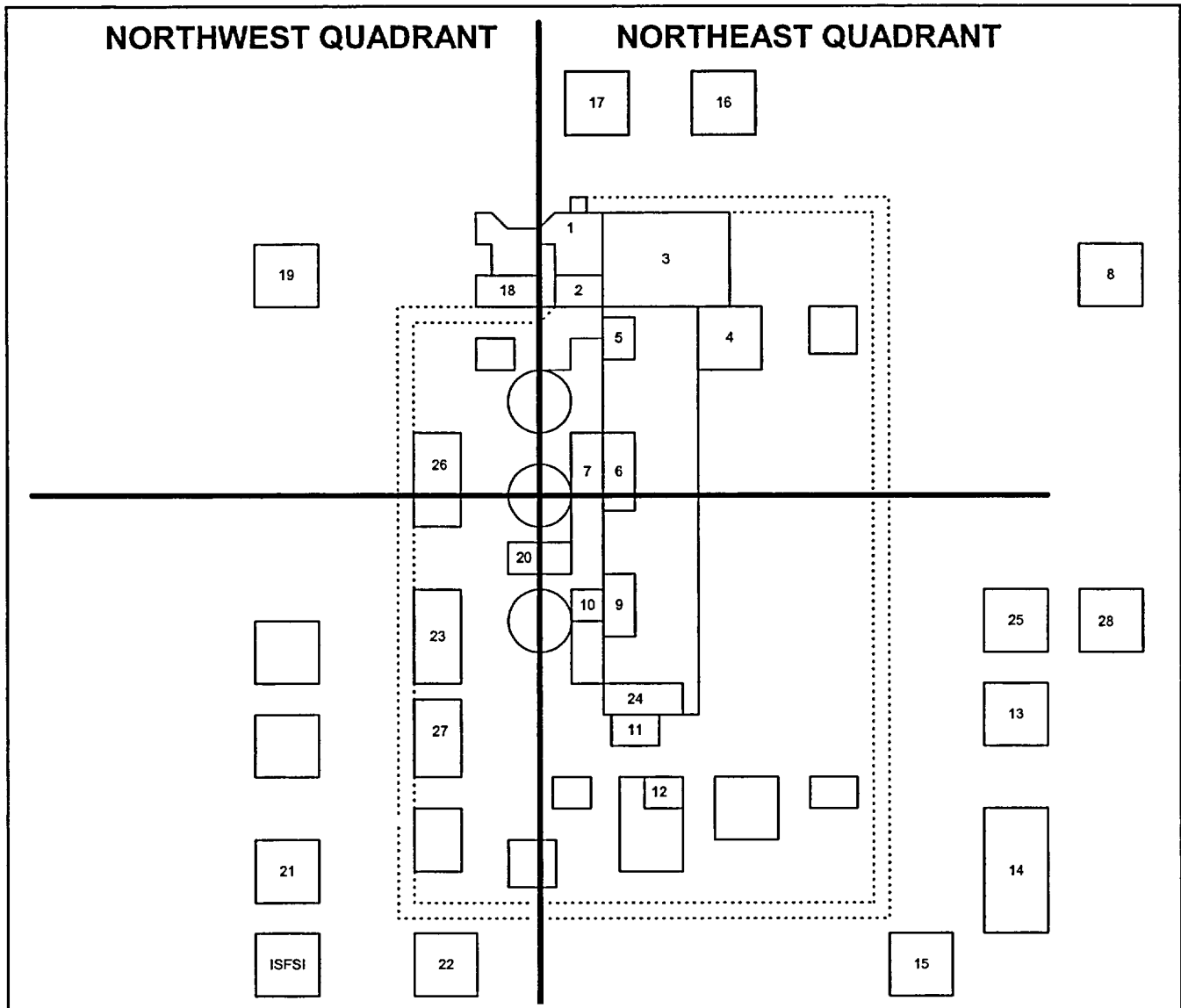
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## Group Site Assembly Locations

## 1. Group Site Assembly Locations



NORTHWEST QUADRANT	NORTHEAST QUADRANT	
18. Administrating Building 19. Oconee Office Building 26. SSF - Standby Shutdown Facility	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. 8023 22. Geo-Technical Center 23. Warehouse Offices 27. Interim Radwaste Bldg	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 28. SGT - Steam Generator Team	

**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:**

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**1. List of Definitions**

- 1.1 Essential - Personnel necessary as determined by Group Managers to support site/station in the event of an emergency
- 1.2 Non-Essential - Personnel not necessary as determined by Group Managers to support site/station in the event of an emergency.
- 1.3 Site Evacuation - When personnel are determined non-essential by Group Managers and instructed to leave site for safety purposes.
- 1.4 Site Relocation - When personnel are instructed to relocate to another area/location of the site to avoid the consequences of a dam failure, hazardous chemical spill, and or radiological exposure concerns.
- 1.5 EOF - Emergency Operations Facility
- 1.6 EOC - Emergency Operations Center

References

{1} PIP 02-5829

**INFORMATION  
ONLY****Duke Power Company  
PROCEDURE PROCESS RECORD**(1) ID No. RP/0/B/1000/029Revision No 007**PREPARATION**(2) Station OCONEE NUCLEAR STATION(3) Procedure Title Fire Brigade Response(4) Prepared By Robert Taylor (Signature) *Robert Taylor* Date 3/11/03

(5) Requires NSD 228 Applicability Determination?

☐ Yes (New procedure or revision with major changes)☒ No (Revision with minor changes)☐ No (To incorporate previously approved changes)(6) Reviewed By M. Q. Thome (QR) Date 3-12-03Cross-Disciplinary Review By *Steve L. Robinson* (QR) NA Date 3-13-03Reactivity Mgmt Review By \_\_\_\_\_ (QR) NA NOT Date 3-12-03

Mgmt Involvement Review By \_\_\_\_\_ (Ops Supt) NA Date \_\_\_\_\_

(7) Additional Reviews

Reviewed By *H. H. H. H. H.* Date 3-13-03

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

Temporary Approval (if necessary)

By \_\_\_\_\_ (OSM/QR) Date \_\_\_\_\_

By \_\_\_\_\_ (QR) Date \_\_\_\_\_

(9) Approved By *Rodney Brown* Date 03/13/03**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 Required 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)

<b>Duke Power Company</b> <b>Oconee Nuclear Station</b>  <b>Fire Brigade Response</b>   <b>Reference Use</b>	<b>Procedure No.</b> <b>RP/0/B/1000/029</b>
	<b>Revision No.</b> <b>007</b>
	<b>Electronic Reference No.</b> <b>OX0091UU</b>

## 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 seven (7) 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 **IF** Fire Brigade response is being considered during routine operations  
**THEN** Go to Enclosure 4.1 (Fire Brigade Response - Routine Operations)
- 2.2 **IF** Fire Brigade response is being considered  
**AND** The OSC/TSC are activated  
**THEN** Go to Enclosure 4.2 (Fire Brigade Response - OSC/TSC Activation).

### 3. Subsequent Actions

- 3.1 **WHEN** HPSW Pump **NO** longer required perform the following:
  - 3.1.1 Ensure HPSW Pump switch returned to required position per OP/0/A/1104/011 (High Pressure Service Water).
  - 3.1.2 If required reset Mulsifyres per OP/0/A/1104/011 (High Pressure Service Water).
  - 3.1.3 If required close any Fire Hydrant that was opened. {4}
- 3.2 **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.

- \_\_\_\_\_ 3.3 Complete Enclosure 4.3 (Fire Emergency Report).
  - \_\_\_\_\_ 3.3.1 Forward a copy to the Fire Protection Engineer.
  - \_\_\_\_\_ 3.3.2 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.
  - \_\_\_\_\_ 3.3.3 Forward this procedure to the Emergency Planning Section.
- \_\_\_\_\_ 3.4 Conduct a post incident critique for events requiring full Fire Brigade activation.

#### **4. Enclosures**

- 4.1 Fire Brigade Response - Routine Operations
- 4.2 Fire Brigade Response - OSC/TSC Activation
- 4.3 Fire Emergency Report
- 4.4 Fire Brigade Leader Checklist
- 4.5 Safety Officer's Checklist
- 4.6 References

**Enclosure 4.1**  
**Fire Brigade Response - Routine Operations**

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**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/smoke \_\_\_\_\_

Location of fire/smoke \_\_\_\_\_

Equipment/components affected by fire/smoke \_\_\_\_\_

Time \_\_\_\_\_ Date \_\_\_\_\_

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 \_\_\_\_\_

\_\_\_\_\_ 1.1.1 **IF** It is obvious that a full Fire Brigade response is needed

**THEN** Immediately perform steps 1.4.3, 1.4.4 and 1.4.5.

\_\_\_\_\_ 1.1.2 Upon completion of step 1.4.5, return to step 1.2.

\_\_\_\_\_ 1.2 Notify OSM and STA.

\_\_\_\_\_ 1.3 Refer to the Fire Plan for the location reported for fire in Step 1.1

\_\_\_\_\_ 1.3.1 Request support from an unaffected unit. (Refer to Fire Plan SOG #10 for Fire Brigade equipment locations).



**Enclosure 4.1**  
**Fire Brigade Response - Routine Operations**

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**NOTE:** The Operations Shift Manager (OSM) or designee may activate a full Fire Brigade response without sending someone to investigate first, if deemed necessary. Possible situations that warrant full response could include:

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

\_\_\_\_ 1.4    **IF**            Fire is involved or suspected **INSIDE** the protected area

**THEN**    Perform the following:

\_\_\_\_ 1.4.1    Send one operator, with a radio, to the fire/smoke location to perform one of the following:

A. Extinguish the fire (if possible) with portable extinguisher (notify Control Room)

**OR**

B. **IF**            Fire Brigade response is required

**THEN**    Notify Control Room immediately.

\_\_\_\_ 1.4.2    **IF**            Fire Brigade response is **NOT** needed

**THEN**    Perform the following:

A. Direct NEO to

- Search affected area for victims
- Activate MERT if required per RP/0/B/1000/016, Medical Response.
- IF **NO** fire was discovered then exit this procedure.
- If fire was discovered then GO TO Step 1.4.9.

**Enclosure 4.1**  
**Fire Brigade Response - Routine Operations**

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\_\_\_\_\_ 1.4.3    **IF**        A full Fire Brigade response is needed

**THEN**   Perform the following:

A.   Direct NEO to:

- Search effected area for victims
- Evacuate surrounding areas
- Pre-stage nearby equipment for Fire Brigade
- Report to Fire Brigade Leader for further instructions

**NOTE:**   The plant page announcement is needed to activate Fire Brigade members from SPOC, RP and Chemistry because they do not carry radios or pagers. {6}

B.   Use plant page to request all Fire Brigade and MERT members to respond to the fire.

1.   Include any information, if known, that would be important to Fire Brigade members responding to the incident location. (eg. Hazardous materials, smoke, structural damage, etc.)
2.   Include the statement "All non-Fire Brigade personnel please avoid the \_\_\_\_\_." (fire location area)

\_\_\_\_\_ 1.4.4    Use the following directions to activate radios and pagers using the Zetron Paging Encoder.

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

**Enclosure 4.1**  
**Fire Brigade Response - Routine Operations**

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- \_\_\_\_\_ 1.4.5 Use the Duke Internal Paging System to alert on duty Operations personnel of the activation of the fire brigade. {7}

SHIFT	GROUP PAGER NUMBER
'A' Shift	777-0392
'B' Shift	777-7705
'C' Shift	778-3411
'D' Shift	777-0002
'E' Shift	778-5157

- \_\_\_\_\_ A. Provide the staging location for the fire brigade if it is known at the time the page is sent.
- \_\_\_\_\_ 1.4.6 Get staging area location from the Fire Brigade Leader then repeat Steps 1.4.3.B, 1.4.4 and 1.4.5.
- \_\_\_\_\_ 1.4.7 Notify SRO to evaluate the need for staging personnel at the SSF.
- \_\_\_\_\_ 1.4.8 Establish and maintain communications with Fire Brigade Leader to provide assistance as needed. {3}
- A. Available equipment, refer to SOG #10 in the Fire Plan.
- B. Critical equipment in vicinity of fire (Fire Plan)
- \_\_\_\_\_ 1.4.9 **IF** Hazardous materials are involved,  
**THEN** Refer to RP/0/B/1000/017 (Spill Response Procedure)
- \_\_\_\_\_ 1.4.10 **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 Manger's phone
Dial 9-9-11	from Ext. 2159	Unit 1 Control Room SRO's phone or
Dial 911	from 882-7076	Units 1,2, & 3 Control Room, Bell South lines

<u>          </u>	1.4.11	<b><u>IF</u></b>	The Fire Brigade identifies a fire requiring application of water for extinguishment,	
		<b><u>AND</u></b>	Power is available to operate HPSW pumps	{5}
		<b><u>THEN</u></b>	perform the following:	

A. Perform one of the following:

1. Activate Mulsifyre Transformer No. 3Y [3Y Currently spare] (T-3-B42)  
**OR**
2. Activate any one of the following (preferably not loaded or energized):
  - Mulsifyre Transformer CT-1 (T-3-B14)
  - Mulsifyre Transformer No.CT-2 (T-3-D29)
  - Mulsifyre Transformer No.CT-3. (T-3-B42)

**OR**

3. Remove cap and open any fire Hydrant within protected area or switchyard with a 2.5" outlet.

- B. Start HPSW Pump per OP/0/A/1104/011 (High Pressure Service Water). {1} {4}
- C. Make a PA announcement to discontinue use of HPSW for non-essential purposes. {1}
- D. Evaluate any Auxiliary Building Flooding Concerns (Refer to Auxiliary Building Flood AP). {2}

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Dial 9-911	from Ext 3271	Operations Shift Manger's phone
Dial 9-9-11	from Ext. 2159	Unit 1 Control Room SRO's phone or
Dial 911	from 882-7076	Units 1,2, & 3 Control Rooms, Bell South lines

- A. Request a response from:
  - Keowee Key Fire Department
  - Keowee Ebenezer Fire Department
  - Corinth-Shiloh Fire Department
- B. Instruct the fire department dispatcher to have departments enter the site through the complex entrance of Hwy. 183.
- C. Call Security (ext. 2222) and request that they have a Security Officer escort the fire department to the fire location.

1.4.14 IF Fire is isolated on a building roof or other elevated structure, {5}

<b>THEN</b>	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

- A. Request a response from the Keowee Key Fire Department and the county ladder truck.
- B. Instruct the fire department dispatcher to have departments enter the site through the complex entrance off Hwy. 183.
- C. Call Security (ext. 2222) and request that they have a Security officer escort the fire department to the fire location.

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

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

**THEN** Send a Fire Brigade Leader and one Fire Brigade Member or the full Fire Brigade if resources allow. Consider requesting assistance from the offsite fire departments at this time. {6}

**IF offsite assistance is needed**

**GO TO** Step 1.5.3.

**Enclosure 4.1**  
**Fire Brigade Response - Routine Operations**

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- NOTE:**
- This Step does **NOT** apply for the Keowee Hydro Station, which has its own fire pump.
  - Minimum flow concerns for HPSW pumps can develop if a HPSW pump is operating with discharge flow <1450 gpm. Most deluge/mulsifyer systems satisfy this requirement therefore, 1.4.11.A may not be necessary if large quantities of water are being discharged from the HPSW system..

- \_\_\_\_\_ 1.5.2     **IF**     The Fire Brigade identifies a fire requiring application of water for extinguishment
- AND**     Power is available to operate HPSW pumps     {5}
- THEN**     Perform the following:

**NOTE:**     These steps are in order of preference.

- A.     Perform one of the following:
1.     Activate Mulsifyre Transformer No. 3Y [3Y Currently spare] (T-3-B42)  
         **OR**
  2.     Activate any one of the following (preferably not loaded or energized):
    - Mulsifyre Transformer CT-1                     (T-3-B14)
    - Mulsifyre Transformer No.CT-2                (T-3-D29)
    - Mulsifyre Transformer No.CT-3.               (T-3-B42)
- OR**
3.     Remove cap and open any fire Hydrant within protected area or switchyard with a 2.5" outlet.

**NOTE:**     HPSW Pump should be started ≤ 30 minutes from start of fire.

- B.     Start HPSW Pump per OP/0/A/1104/011 (High Pressure Service Water). {1}  
         {4}
- C.     Make a PA announcement to discontinue use of HPSW for non-essential purposes. {1}



**Enclosure 4.1**  
**Fire Brigade Response - Routine Operations**

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

- \_\_\_\_\_ 1.5.3     **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
- \_\_\_\_\_ 1.5.4     Request a response from:
- Keowee Key Fire Department
  - Keowee Ebenezer Fire Department
  - Corinth-Shiloh Fire Department
- A. Instruct the fire department dispatcher to have departments enter the site through the complex entrance off Hwy 183.
- B. 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.

- \_\_\_\_\_ 1.5.5     **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.

\_\_\_\_\_ 1.6     Return to Section 3, Subsequent Actions.

**Enclosure 4.2**  
**Fire Brigade Response - OSC/TSC Activation**

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**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/smoke \_\_\_\_\_

Location of fire/smoke \_\_\_\_\_

Equipment/components affected by fire/smoke \_\_\_\_\_

Time \_\_\_\_\_ Date \_\_\_\_\_

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 Refer to Fire Plan for the location reported for fire in Step 1.1.

\_\_\_\_\_ 1.2.1 Request support from an unaffected unit. (Refer to Fire Plan SOG#10 for Fire Brigade Equipment locations).

**Enclosure 4.2**  
**Fire Brigade Response - OSC/TSC Activation**

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Page 2 of 8

**NOTE:** The Emergency Coordinator or designee may activate a full Fire Brigade response without sending someone to investigate first, if deemed necessary. Possible situations that warrant full response could include:

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

\_\_\_\_ 1.3    **IF**        Fire is involved or suspected **INSIDE** the Protected Area,

**THEN**    Perform one of the following as required.

\_\_\_\_ 1.3.1    Send one operator, with a radio, to the fire/smoke location to perform one of the following:

A. Extinguish the fire (if possible) with portable extinguisher (notify Control Room)

**OR**

B. **IF**        Fire Brigade response is required

**THEN**    Notify OSC SRO immediately.

\_\_\_\_ 1.3.2    **IF**        Fire Brigade response is **NOT** needed,

**THEN**    Perform the following:

A. Direct NEO to search affected area for victims

B. Activate MERT if required per RP /0/B/1000/016 (Medical Response)

C. IF **NO** fire was discovered then exit this procedure.

D. If fire was discovered then GO TO Step 1.3.5.

**Enclosure 4.2**  
**Fire Brigade Response - OSC/TSC Activation**

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- \_\_\_\_ 1.3.3    **IF**      A full Fire Brigade response is needed,  
**THEN**   Perform the following:
- A.   Direct NEO to:
- Search effected area for victims
  - Evacuate surrounding areas
  - Pre-stage nearby equipment for Fire Brigade
  - Report to Fire Brigade Leader for further instructions
- B.   Dispatch Fire Brigade Members assigned to the OSC.
- C.   Request the OSC Security Manager to have MERT respond along with the Fire Brigade to the fire location.
- \_\_\_\_ 1.3.4    Establish and maintain communications with Fire Brigade Leader to provide assistance as needed. {3}
- A.   Available equipment (Refer to SOG #10 in the Fire Plan)
- B.   Critical equipment in vicinity of fire (Fire Plan)
- \_\_\_\_ 1.3.5    **IF**      Hazardous materials are involved,  
**THEN**   Refer to RP/0/B/1000/017 (Spill Response Procedure).
- \_\_\_\_ 1.3.6    **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 or               |
| Dial 911   | from 882-7076  | Units 1, 2 and 3 Control Rooms, Bell South lines |
- A.   Instruct the fire department dispatcher to have Keowee Key enter the site through the complex entrance off Hw 183.

1.3.7     **IF**           The Fire Brigade identifies a fire requiring application of water for  
extinguishment,

**AND**       Power is available to operate HPSW pumps {5}

**THEN** Perform the following

A. Perform one of the following:

1. Activate Mulsifyre Transformer No. 3Y [3Y Currently spare] (T-3-B42)

**OR**

- 2. Activate any one of the following (preferably not loaded or energized):**

- Mulsifyre Transformer CT-1 (T-3-B14)
- Mulsifyre Transformer No.CT-2 (T-3-D29)
- Mulsifyre Transformer No.CT-3. (T-3-B42)

**OR**

3. Remove cap and open any fire Hydrant within protected area or switchyard with a 2.5" outlet.

B. Start HPSW Pump per OP/0/A/1104/011 (High Pressure Service Water).  
{1} {4}

- C. Make a PA announcement to discontinue use of HPSW for non-essential purposes. {1}
- D. Evaluate any Auxiliary Building Flooding Concerns (Refer to Auxiliary Building Flood AP). {2}

**Enclosure 4.2**  
**Fire Brigade Response - OSC/TSC Activation**

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\_\_\_\_\_ 1.3.8 Notify SRO to evaluate the need for staging personnel at the SSF.

\_\_\_\_\_ 1.3.9 **IF** Fire occurs on backshifts or weekends  
**AND** Additional Fire Brigade support is needed,  
**THEN** Perform the following:

A. 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

B. Call the Switchboard Operator and request them to recall the shift(s) selected in Step A.

C. Use the Duke Internal Paging System to alert the off duty shift selected in Step A to respond back to the site for fire brigade duties. {7}

SHIFT	GROUP PAGER NUMBER
'A' Shift	777-0392
'B' Shift	777-7705
'C' Shift	778-3411
'D' Shift	777-0002
'E' Shift	778-5157

\_\_\_\_\_ 1.3.10 **IF** Oconee County Fire Department assistance is needed for additional manpower, equipment or the fire lasts longer than 5 minutes after the application of extinguishing agent. {6}

**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

A. Have the Offsite Communicator instruct the fire department dispatcher to have the responding departments to enter the site through the complex entrance off Hwy 183.

B. 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  
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1.3.11 **IF** Fire is located on a building roof or other elevated structure, {5}

**THEN** Request the Offsite Communicator call and request a response from the Keowee Key Fire Dept. and the county ladder truck.

- A. Have the Offsite Communicator instruct the fire department dispatcher to have the responding units to enter the site through the complex entrance off Hwy 183.
- B. 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.

\_\_\_\_ 1.4 **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).

\_\_\_\_ 1.4.1 **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. Consider requesting assistance from the offsite fire departments at this time. {6}

IF Offsite assistance is needed

GO TO Step 1.4.3

**Enclosure 4.2**  
**Fire Brigade Response - OSC/TSC Activation**

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- NOTE:**
- This step does **NOT** apply for the Keowee Hydro Station, which has its own fire pump.
  - Minimum flow concerns of HPSW pumps can develop if a HPSW pump is operating with discharge flow <1450 gpm. Most deluge/mulsifyer systems satisfy this requirement therefore, 1.4.11.A may not be necessary if large quantities of water are being discharged from the HPSW system.

- \_\_\_\_\_ 1.4.2     **IF**     The Fire Brigade identifies a fire requiring application of water for extinguishment,
- AND**     Power is available to operate HPSW pumps.     {5}
- THEN**     Perform the following:

**NOTE:**     These steps are in order of preference.

- A.     Perform one of the following:
1.     Activate Mulsifyre Transformer No. 3Y [3Y Currently spare] (T-3-B42)  
         **OR**
  2.     Activate any one of the following (preferably not loaded or energized):
    - Mulsifyre Transformer CT-1     (T-3-B14)
    - Mulsifyre Transformer No.CT-2     (T-3-D29)
    - Mulsifyre Transformer No.CT-3.     (T-3-B42)
- OR**
3.     Remove cap and open any fire Hydrant within protected area or switchyard with a 2.5"outlet.

**NOTE:**     HPSW Pump should be started ≤ 30 minutes from start of fire.

- B.     Start HPSW Pump per OP/0/A/1104/011 (High Pressure Service Water).  
         {1} {4}
- C.     Make a PA announcement to discontinue use of HPSW for non-essential purposes. {1}



**Enclosure 4.2**  
**Fire Brigade Response - OSC/TSC Activation**

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- \_\_\_\_\_ 1.4.3    **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
- A.   Have the Offsite Communicator instruct the fire department dispatcher to have the responding units to enter the site through the complex entrance off Hwy 183.
- B.   Request that a Security Officer meet and escort the fire department to the fire location.

<b>NOTE:</b> Keowee Hydro Station is located in Pickens County.
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- \_\_\_\_\_ 1.4.4    **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.

\_\_\_\_\_ 1.5      Return to Section 3, Subsequent Actions.

Enclosure 4.3  
Fire Emergency Report

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**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).


**Enclosure 4.4**  
**Fire Brigade Leader Checklist**

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<b>TASK</b>	<b>✓</b>
<b>Don Fire Brigade Leader Vest</b>	
<b>Determine Staging Area and Communicate to Control Room</b> <ul style="list-style-type: none"> <li>• Safe accessibility</li> <li>• Minimal distractions</li> <li>• Appropriate vicinity</li> </ul>	
<b>Establish The Following Teams/Priorities:</b> <ul style="list-style-type: none"> <li>• Entry Team - Priority = search &amp; rescue/fight fire</li> <li>• Backup Team - Priority = backup Entry Team/help fight fire</li> <li>• Rapid Intervention Team - Priority = Rescue Fire Fighters (if required)</li> </ul>	
<b>Stress The Following Items With All Teams Prior To Dispatching To Fire:</b> <ul style="list-style-type: none"> <li>• Safety of Team is top priority</li> <li>• Stay with the hose/rescue line <u>at all times</u></li> <li>• Maintain contact with your team at all times</li> <li>• All teams report to Safety Officer prior to entering fire zone and after exiting fire zone for accountability</li> </ul>	
<b>Assess The Fire:</b> <ul style="list-style-type: none"> <li>• Request CR to dispatch additional resources as required: <ul style="list-style-type: none"> <li>- Off Duty Shifts and/or Offsite Fire Departments -</li> <li>- (Fire active &gt; 5 minutes after extinguishing agent is applied)</li> <li>- Outside Equipment Truck and/or Equipment Carts</li> <li>- CO2 or Wheeled Dry Chemical Extinguishers</li> <li>- Foam Units</li> </ul> </li> <li>• Exposures - Critical Equipment Concerns <ul style="list-style-type: none"> <li>- Above/Below Fire?, Fire/Smoke/Water?, Electrical Hazards?</li> </ul> </li> <li>• Report Critical Equipment Concerns to CR for Emergency Plan Consideration</li> </ul>	
<b>Request Location of Nearest Fire Hose Locations From Control Room:</b> <ul style="list-style-type: none"> <li>• Elevation/column #</li> <li>• Communicate locations to teams</li> </ul>	
<b>Request Assistance From RP/Security</b> <ul style="list-style-type: none"> <li>• Request Security At The Scene To Control Access To The Area</li> <li>• If Radiological Concerns Exist, Request CR To Notify RP</li> </ul>	
<b>Refer To Fire Plan As Required:</b> <ul style="list-style-type: none"> <li>• Hazards/Ventilation</li> <li>• Refer To SOG #10 for Fire Brigade equipment locations</li> </ul>	
<b>If Hazardous Materials Involved, Request CR to Dispatch Haz-Mat Team</b>	

**Enclosure 4.5**  
**Safety Officer's Checklist**

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<b>TASK</b>	
<b>Don Safety Officer Vest</b>	
<b>Establish Accountability For FB Members</b> <ul style="list-style-type: none"><li>• Name tags/accountability board</li></ul>	
<b>Perform PPE Checks of Fire Fighters</b> <ul style="list-style-type: none"><li>• All skin covered</li><li>• All turnout gear openings closed</li><li>• SCBA cylinder full (<math>\geq 4000</math> psi)</li><li>• SCBA cylinder valves fully open</li><li>• PASS device operational</li></ul>	
<b>Log Team Assignments on Accountability Board</b> <ul style="list-style-type: none"><li>• Log time on air</li><li>• Log entry times</li><li>• Log team assignments</li></ul>	
<b>Assign MERT Responsibilities</b> <ul style="list-style-type: none"><li>• Stand by with medical equipment</li><li>• Monitor FB members for signs of heat exhaustion/stress/etc.</li><li>• Provide drinking water for fire fighters</li></ul>	
<b>Maintain Continuous Contact With Fire Brigade Leader</b>	
<b>Evaluate SCBA Needs</b> <ul style="list-style-type: none"><li>• If required, request CR to have SCBA cylinder fill trailer delivered</li><li>• If required, request CR to have Spare SCBA cylinders delivered.</li><li>• If required, request CR to have spare SCBAs (for additional responders) delivered</li></ul>	

**1. References:**

- {1} PIP 01-0405
- {2} PIP 99-1286
- {3} PIP 01-1220
- {4} PIP 02-03870
- {5} PIP 02-03489
- {6} PIP 02-07174
- {7} PIP 03-00251