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February 25, 2002

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 2002-02


Please find attached for your use and review copies of the revision to the
Oconee Nuclear Station Emergency Plan: Volume C Revision 2002-02 February 2002.

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

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

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

Very truly yours,



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

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

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

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

A045

February 25, 2002

OCONEE NUCLEAR SITE
INTRASITE LETTER

SUBJECT: Emergency Plan Implementing Procedures
Volume C, Revision 2002-02

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

REMOVE

Cover Sheet - Rev. 2002-01

Table of Contents, Page 1 & 2

RP/0/B/1000/009 - 11/15/01

RP/0/B/1000/029 - 11/07/01
Rev. 2

ADD

Cover Sheet Rev. 2002-02

Table of Contents, Page 1 & 2

RP/0/B/1000/009 - 02/19/02

RP/0/B/1000/029 - 02/19/02
Rev. 4

NOTE: Revision 3 was revised before distribution was made

DUKE POWER

EMERGENCY PLAN
IMPLEMENTING PROCEDURES
VOLUME C



APPROVED:



W. W. Foster, Manager
Safety Assurance

02/27/02

Date Approved

02/27/02

Effective Date

VOLUME C
REVISION 2002-02
FEBRUARY 2002

VOLUME C
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HP/0/B/1009/018	Off-Site Dose Projections	05/19/00
HP/0/B/1009/020	Estimating Food Chain Doses Under Post Accident Conditions	10/09/98
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 Off-Site Dose Projections	10/08/01
RP/0/B/1000/001	Emergency Classification	01/15/02
RP/0/B/1000/002	Control Room Emergency Coordinator Procedure	11/05/01
RP/0/B/1000/003 A	ERDS Operation	12/03/98
RP/0/B/1000/007	Security Event	11/05/01
RP/0/B/1000/009	Procedure For Site Assembly	02/19/02
RP/0/B/1000/010	Procedure For Emergency Evacuation/Relocation Of Site Personnel	04/24/01
RP/0/B/1000/015 A	Offsite Communications From The Control Room	12/11/01
RP/0/B/1000/015 B	Offsite Communications From The Technical Support Center	12/11/01
RP/0/B/1000/015 C	Offsite Communications From The Emergency Operations Facility	12/11/01
RP/0/B/1000/016	Medical Response	01/30/01
RP/0/B/1000/017	Spill Response	11/30/00
RP/0/B/1000/018	Core Damage Assessment	09/30/97
RP/0/B/1000/019	Technical Support Center Emergency Coordinator Procedure	12/05/01
RP/0/B/1000/020	Emergency Operations Facility Director Procedure	12/05/01
RP/0/B/1000/021	Operations Interface (EOF)	04/30/01
RP/0/B/1000/022	Procedure For Site Fire Damage Assessment And Repair	09/18/01
RP/0/B/1000/024	Protective Action Recommendations	11/10/99
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SSG Functional Area Directive 102	SSG Emergency Response Plan – ONS Specific	03/01/01
NSC – 110	Nuclear Supply Chain – SCO Emergency Response Plan	04/02/01
Engineering Directive 5.1	Engineering Emergency Response Plan	09/12/01
Human Resources Procedure	ONS Human Resources Emergency Plan	01/07/02
Radiation Protection Manual Section 11.3	Off-Site Dose Assessment And Data Evaluation	04/06/99
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Training Division	Training Division Emergency Response Guide DTG-007	12/17/01

Revision 2002-02
February, 2002

INFORMATION ONLY

Duke Power Company PROCEDURE PROCESS RECORD

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

Revision No. 006

PREPARATION

- (2) Station OCONEE NUCLEAR STATION
- (3) Procedure Title Procedure for Site Assembly
- (4) Prepared By Ray Waterman (Signature) Ray Waterman Date 02/13/02
- (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 Robert Taylor (QR) Date 2/18/02
- Cross-Disciplinary Review By _____ (QR) NA RET Date 2/18/02
- Reactivity Mgmt Review By _____ (QR) NA _____ Date _____
- Mgmt Involvement Review By _____ (Ops Supt) NA _____ Date _____
- (7) Additional Reviews
- Reviewed By _____ Date _____
- Reviewed By _____ Date _____
- Temporary Approval (if necessary)
- By _____ (OSM/QR) Date _____
- By _____ (QR) Date _____
- (9) Approved By M. Q. Thom Date 2-19-02

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)

Duke Power Company Oconee Nuclear Site Procedure for Site Assembly Reference Use	Procedure No. RP/0/B/1000/009
	Revision No. 006
	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 seven (7) working days of approval.

1. Symptoms

- 1.1 A test of response time and procedures employed in completing an accounting of onsite personnel.
- 1.2 An incident occurs on site and:
 - 1.2.1 The Technical Support Center, Operational Support Center, and Emergency Operations Facility are required to be established.
 - 1.2.2 Portions of the site require 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, Geo Technical, Crescent Resources, 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, Geo Technical, Crescent Resources, 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.

Site Assembly Locations

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>NSC & SSG:</u>	
All	NSC & SSG 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

Human Resources

Community Relations:

All

WOE Offices

Business Management:

All

Business Management

Security

Security Offices
Designated Post

Site Assembly Locations

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>Quality Verification:</u>	Quality Assurance Offices
<u>NMS (Nuclear Maintenance Support)</u>	
Personnel Inside Protected Area	Maint. Support Bldg Canteen
Personnel Outside Protected Area	
<u>Transportation Department:</u>	
Personnel Inside Protected Area	Maintenance Support Building
Personnel Outside Protected Area	Transportation Offices/Garage
<u>Geo-Tech</u>	Geo-Technical Offices
<u>Crescent Resources</u>	Crescent Resources Offices

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

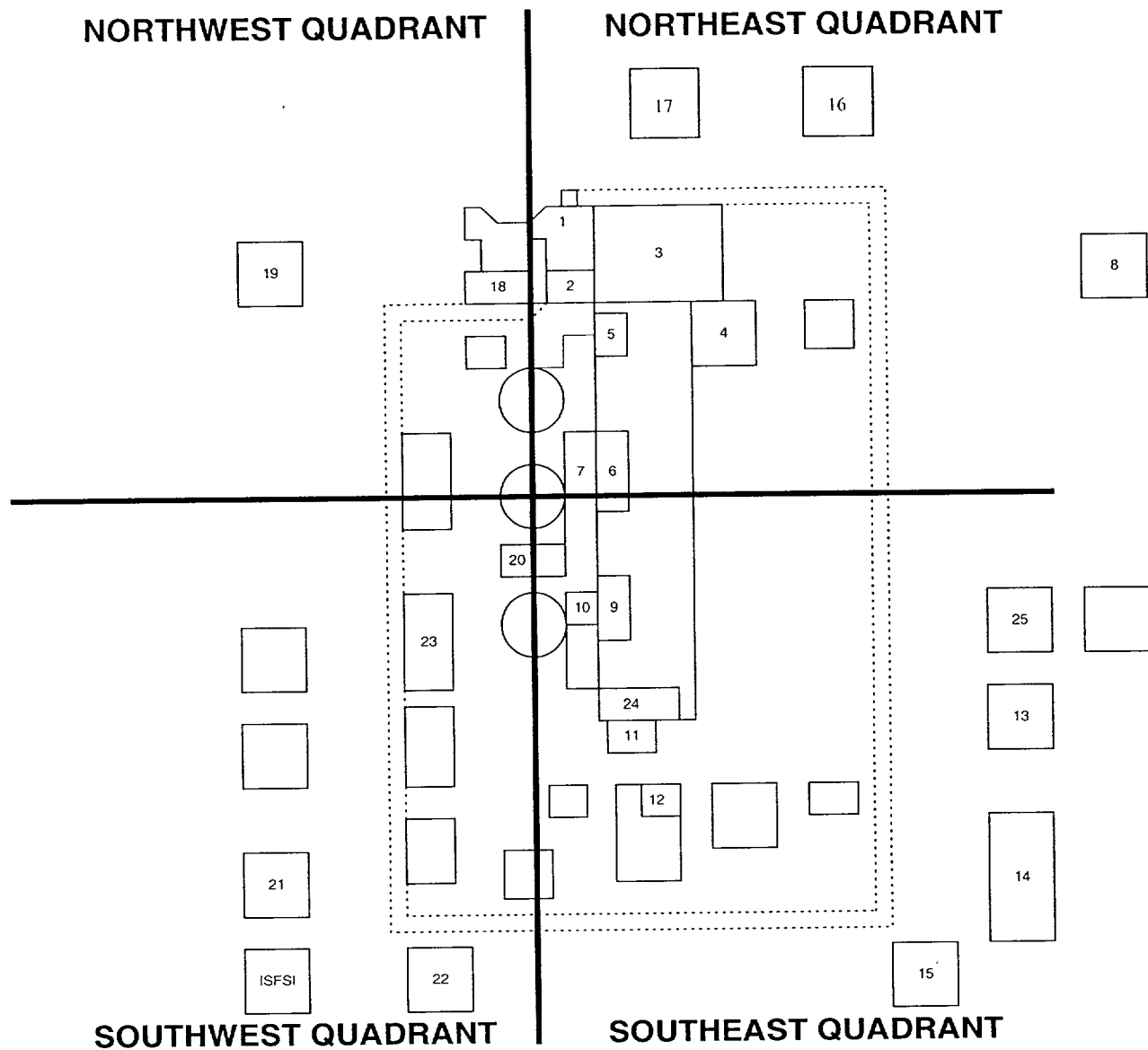
VISITORS

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.

Site Assembly Locations



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

Enclosure 4.7
Site Accountability Log

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

1. Site Accountability Log

NOTE: Instructions in note are for Security only unless directed otherwise.

Acquire site assembly call-ins 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
Business Management				
Chemistry				
NSC				
SSG				
Engineering/LIT				
Nuclear Maintenance Support (NMS)				
Human Resources				
Security				
Keowee Hydro				
Mechanical Maintenance				
Operations				
Radiation Protection				
V. P. Staff				
Safety Assurance				
Training				
World of Energy				
Work Control				
Medical				

Enclosure 4.7
Site Accountability Log

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

[illegible]

1. Site Assembly Card Reader Listing

PSC ID #	Location
EP CR # 01	Locker Building - hallway near west entrance to machine shop
EP CR # 02	Security Admin. Building – second level near mechanical conference room
EP CR # 03	Maintenance Service Building - maintenance shop east wall near doorway leading to yard area
EP CR # 04	Maintenance Service Building - canteen north/east wall near corridor to stairway
EP CR # 05	Maintenance Service Building - canteen south/west wall near stairway
EP CR # 06	Maintenance Service Building – second level south wall near stairway
EP CR # 07	Maintenance Service Building – fourth level south wall near stairway
EP CR # 08	Maintenance Service Building – fifth level south wall near stairway
EP CR # 09	Turbine Building - turbine floor level, north offices located at bottom of north stairwell
EP CR # 10	Turbine Building - units 1&2 turbine floor level offices located in work control/document control area near east door
EP CR # 11	Unit 2 Control Room - on south 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/1000/029

Revision No. 003

PREPARATION

- (2) Station OCONEE NUCLEAR STATION
- (3) Procedure Title FIRE BRIGADE RESPONSE
- (4) Prepared By ROBERT TAYLOR (Signature) Robert Taylor Date 01/23/02
- (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 Tony R. Lee (QR) Date 1-29-02
Cross-Disciplinary Review By H. R. R. R. (QR) NA Date 1-24-02
Reactivity Mgmt Review By _____ (QR) NA Date _____
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 M. R. Thorne Date 1-29-02

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)

Duke Power Company Oconee Nuclear Station Fire Brigade Response Reference Use	Procedure No. RP/0/B/1000/029
	Revision No. 003
	Electronic Reference No. OX0091UU

Fire Brigade Response

NOTE: This procedure is an implementing procedure to the Oconee Nuclear Site Emergency Plan and must be forwarded to Emergency Planning within three (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 **IF** Fire Brigade equipment or supplies have been used,
THEN Ensure that all equipment is returned to its proper place and consumable supplies are replaced or ordered.

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

- _____ 3.2 Complete Enclosure 4.3 (Fire Emergency Report).
 - _____ 3.2.1 Forward a copy to the Fire Protection Engineer.
 - _____ 3.2.2 Initiate a PIP if Enclosure 4.3 (Fire Emergency Report) is completed. Include all important information from Enclosure 4.3 (Fire Emergency Report) in PIP.
 - _____ 3.2.3 Forward this procedure to the Emergency Planning Section.
- _____ 3.3 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

RP/0/B/1000/029
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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 _____

_____ 1.2 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

RP/0/B/1000/029

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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 1.4.8.

Enclosure 4.1
Fire Brigade Response - Routine Operations

RP/0/B/1000/029

Page 3 of 7

- _____ 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
- 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.
- 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.).
- _____ 1.4.5 Get staging area location from the Fire Brigade Leader then repeat Steps 1.4.3.B & 1.4.4.
- _____ 1.4.6 Notify SRO to evaluate the need for staging personnel at the SSF.
- _____ 1.4.7 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)

Enclosure 4.1
Fire Brigade Response - Routine Operations

RP/0/B/1000/029

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- _____ 1.4.8 **IF** Hazardous materials are involved,
- THEN** Refer to RP/0/B/1000/017 (Spill Response Procedure).
- _____ 1.4.9 **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
- _____ 1.4.10 **IF** The Fire Brigade identifies a fire requiring application of water for extinguishment,
- THEN** perform the following:
- A. Operate HPSW pumps as required to boost pressure (refer to OP/0/A/1104/01, High Pressure Service Water). {1}
- B. Make a PA announcement to discontinue use of HPSW for non-essential purposes. {1}
- C. Evaluate any Auxiliary Building Flooding Concerns (Refer to Auxiliary Building Flood AP). {2}
- _____ 1.4.11 **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 call the shift(s) selected in Step A.

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

_____ 1.4.12 **IF** Oconee County Fire Department assistance is needed,

THEN Dial 9-911 from Ext. 3271 Operations Shift Manager's phone

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

Or

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

A. Request a response from:

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

Enclosure 4.1
Fire Brigade Response - Routine Operations

RP/0/B/1000/029
Page 6 of 7

- 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.

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

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

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

_____ 1.5.1 **IF** Security confirms that there is a fire or the situation has the potential for developing into one,

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

_____ 1.5.2 **IF** The Fire Brigade identifies a fire requiring application of water for extinguishment

THEN Perform the following:

- A. Operate HPSW pumps as required to boost pressure (refer to OP/0/A/1104/01, High Pressure Service Water).). {1}
- B. Make a PA announcement to discontinue use of HPSW for non-essential purposes. {1}

Enclosure 4.1
Fire Brigade Response - Routine Operations

RP/0/B/1000/029
Page 7 of 7

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
- Give the fire location (building, parking lot, etc.) and best gate for entry to the fire department dispatch.
 - Call Security (ext. 2222) and request that they have a Security Officer escort the fire department to the fire location.

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

- _____ 1.5.5 **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

RP/0/B/1000/029
Page 1 of 6

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

RP/0/B/1000/029
Page 2 of 6

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 Control Room 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

RP/0/B/1000/029

Page 3 of 6

- _____ 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 to respond to the fire.
- 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

Enclosure 4.2
Fire Brigade Response - OSC/TSC Activation

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Page 4 of 6

- _____ 1.3.7 **IF** The Fire Brigade identifies a fire requiring application of water for extinguishment,
- THEN** Perform the following:
- A. Operate HPSW pumps as required to boost pressure (Refer to OP/0/A/1104/01 High Pressure Service Water). {1}
 - B. Make a PA announcement to discontinue use of HPSW for non-essential purposes. {1}
 - C. Evaluate any Auxiliary Building Flooding Concerns (Refer to Auxiliary Building Flood AP). {2}
- _____ 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.
- _____ 1.3.10 **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. Give the fire location (building, parking lot, etc.) and best gate for entry to the Offsite Communicator so that it can be given to the fire department dispatcher.
 - 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.

_____ 1.4.2 **IF** The Fire Brigade identifies a fire requiring application of water for extinguishment,

THEN Perform the following:

- A. Operate HPSW pumps as required to boost pressure (refer to OP/0/A/1104/01, High Pressure Service Water). {1}
- B. Make a PA announcement to discontinue use of HPSW for non-essential purposes. {1}

Enclosure 4.2
Fire Brigade Response - OSC/TSC Activation

RP/0/B/1000/029
Page 6 of 6

- _____ 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. Give the fire location (building, parking lot, etc.) and best gate for entry to the Offsite Communicator so that it can be given to the fire department dispatcher.
- B. Request that a Security Officer meet and escort the fire department to the fire location.

NOTE: Keowee Hydro Station is located in Pickens County.

- _____ 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
FIRE EMERGENCY REPORT

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

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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Page 1 of 1

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

Enclosure 4.5
Safety Officer's Checklist

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


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

References:

{1} PIP 01-0405

{2} PIP 99-1286

{3} PIP 01-1220

**INFORMATION
ONLY****Duke Power Company
PROCEDURE PROCESS RECORD**(1) ID No. RP/0/B/1000/029Revision No. 004**PREPARATION**(2) Station OCONEE NUCLEAR STATION(3) Procedure Title FIRE BRIGADE RESPONSE(4) Prepared By ROBERT TAYLOR (Signature)  Date 02/05/02

(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  (QR) Date 02/05/02Cross-Disciplinary Review By _____ (QR) NA  Date _____Reactivity Mgmt Review By _____ (QR) NA  Date _____Mgmt Involvement Review By _____ (Ops Supt) NA  Date _____

(7) Additional Reviews

Reviewed By _____ Date _____

Reviewed By _____ Date _____

Temporary Approval (if necessary)

By _____ (OSM/QR) Date _____

By _____ (QR) Date _____

(9) Approved By M. R. Thome Date 2-5-02**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)

Duke Power Company
Oconee Nuclear Station

Fire Brigade Response

Reference Use

Procedure No.

RP/0/B/1000/029

Revision No.

004

Electronic Reference No.

OX0091UU

Fire Brigade Response

NOTE: This procedure is an implementing procedure to the Oconee Nuclear Site Emergency Plan and must be forwarded to Emergency Planning within three (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 **IF** Fire Brigade equipment or supplies have been used,
THEN Ensure that all equipment is returned to its proper place and consumable supplies are replaced or ordered.

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

- _____ 3.2 Complete Enclosure 4.3 (Fire Emergency Report).
 - _____ 3.2.1 Forward a copy to the Fire Protection Engineer.
 - _____ 3.2.2 Initiate a PIP if Enclosure 4.3 (Fire Emergency Report) is completed. Include all important information from Enclosure 4.3 (Fire Emergency Report) in PIP.
 - _____ 3.2.3 Forward this procedure to the Emergency Planning Section.
- _____ 3.3 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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Page 1 of 7

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 _____

_____ 1.2 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

RP/0/B/1000/029
Page 2 of 7

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 1.4.8.

Enclosure 4.1
Fire Brigade Response - Routine Operations

RP/0/B/1000/029
Page 3 of 7

- _____ 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
- 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.
- 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.).
- _____ 1.4.5 Get staging area location from the Fire Brigade Leader then repeat Steps 1.4.3.B & 1.4.4.
- _____ 1.4.6 Notify SRO to evaluate the need for staging personnel at the SSF.
- _____ 1.4.7 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)

Enclosure 4.1
Fire Brigade Response - Routine Operations

RP/0/B/1000/029

Page 4 of 7

- _____ 1.4.8 **IF** Hazardous materials are involved,
- THEN** Refer to RP/0/B/1000/017 (Spill Response Procedure).
- _____ 1.4.9 **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
- _____ 1.4.10 **IF** The Fire Brigade identifies a fire requiring application of water for extinguishment,
- THEN** perform the following:
- A. Operate HPSW pumps as required to boost pressure (refer to OP/0/A/1104/011, High Pressure Service Water). {1}
- B. Make a PA announcement to discontinue use of HPSW for non-essential purposes. {1}
- C. Evaluate any Auxiliary Building Flooding Concerns (Refer to Auxiliary Building Flood AP). {2}
- _____ 1.4.11 **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 call the shift(s) selected in Step A.

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.

_____ 1.4.12 **IF** Oconee County Fire Department assistance is needed,

THEN Dial 9-911 from Ext. 3271 Operations Shift Manager's phone

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

Or

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

A. Request a response from:

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

- NOTE:**
- 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.

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

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

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

_____ 1.5.1 **IF** Security confirms that there is a fire or the situation has the potential for developing into one,

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

_____ 1.5.2 **IF** The Fire Brigade identifies a fire requiring application of water for extinguishment

THEN Perform the following:

- A. Operate HPSW pumps as required to boost pressure (refer to OP/0/A/1104/011, High Pressure Service Water). {1}
- B. 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
- Give the fire location (building, parking lot, etc.) and best gate for entry to the fire department dispatch.
 - Call Security (ext. 2222) and request that they have a Security Officer escort the fire department to the fire location.

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

- _____ 1.5.5 **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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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 Control Room 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 to respond to the fire.
- 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 |

Enclosure 4.2
Fire Brigade Response - OSC/TSC Activation

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- _____ 1.3.7 **IF** The Fire Brigade identifies a fire requiring application of water for extinguishment,
- THEN** Perform the following:
- A. Operate HPSW pumps as required to boost pressure (Refer to OP/0/A/1104/011, High Pressure Service Water). {1}
- B. Make a PA announcement to discontinue use of HPSW for non-essential purposes. {1}
- C. Evaluate any Auxiliary Building Flooding Concerns (Refer to Auxiliary Building Flood AP). {2}
- _____ 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.
- _____ 1.3.10 **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. Give the fire location (building, parking lot, etc.) and best gate for entry to the Offsite Communicator so that it can be given to the fire department dispatcher.
- 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.

_____ 1.4.2 **IF** The Fire Brigade identifies a fire requiring application of water for extinguishment,

THEN Perform the following:

- A. Operate HPSW pumps as required to boost pressure (refer to OP/0/A/1104/011, High Pressure Service Water). {1}
- B. 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. Give the fire location (building, parking lot, etc.) and best gate for entry to the Offsite Communicator so that it can be given to the fire department dispatcher.
- B. Request that a Security Officer meet and escort the fire department to the fire location.

NOTE: Keowee Hydro Station is located in Pickens County.

- _____ 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
FIRE EMERGENCY REPORT

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

Enclosure 4.5
Safety Officer's Checklist

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

References:

{1} PIP 01-0405

{2} PIP 99-1286

{3} PIP 01-1220