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January 15, 2004

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 2004-01

Please find attached for your use and review copies of the revision to the Oconee Nuclear Station Emergency Plan: Volume C Revision 2004-01, January 2004.

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

A045

January 15, 2004

OCONEE NUCLEAR SITE
INTRASITE LETTER

SUBJECT: Emergency Plan Implementing Procedures
Volume C, Revision 2004-01

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

REMOVE

Cover Sheet 2003-12
Table of Contents page 1 & 2
RP/0/B/1000/003A - 01/21/03
RP/0/B/1000/021 - 11/04/02
RP/0/B/1000/029 - 04/22/03

INSERT

Cover Sheet 2004-01
Table of Contents page 1 & 2
RP/0/B/1000/003A - 01/19/04
RP/0/B/1000/021 - 01/12/04
RP/0/B/1000/029 - 12/22/03

DUKE POWER

EMERGENCY PLAN IMPLEMENTING PROCEDURES VOLUME C



APPROVED:

Larry E. Nicholson, Manager
Safety Assurance

01/15/2004

Date Approved

01/15/2004

Effective Date

VOLUME C
REVISION 2004-01
JANUARY 2004

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Duke Power Company
PROCEDURE PROCESS RECORD

PREPARATION

(2) Station OCONEE NUCLEAR STATION

(3) Procedure Title Procedure for ERDS Operation

(4) Prepared By Ray Waterman (Signature) _____ Date 01/12/04

- (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 1/19/04

Cross-Disciplinary Review By _____ (QR) NA REC2 Date 1/19/04

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 Robert Brown Date 1/19/04

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 ERDS Operation Reference Use	Procedure No. RP/0/B/1000/003A
	Revision No. 007
	Electronic Reference No. OX002WOV

ERDS Operation

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

An Alert, Site Area Emergency, or General Emergency has been declared and ERDS is required to provide data to the NRC. ERDS is to be started within one (1) hour of the emergency declaration.

2. Immediate Actions

NOTE: Lines left of procedure steps are used to indicate place in the procedure. Check marks are acceptable in these blanks.

___ 2.1 Determine which unit is affected and start the applicable ERDS computer.

___ 2.1.1 ERDS Operation Started By: _____

___ 2.1.2 IF Unit 1 ERDS Computer is required to be started,
THEN GOTO Step 3.1.

___ 2.1.3 IF Unit 2 ERDS Computer is required to be started,
THEN GOTO Step 3.2.

___ 2.1.4 IF Unit 3 ERDS Computer is required to be started,
THEN GOTO Step 3.3.

___ 2.1.5 IF Multiple unit ERDS Computers are required to be started,
THEN Refer to the steps identified above for the affected unit(s).

___ 3.1.7 Verify that the ERDS display, under the STATUS column, indicates the following:

MODEM	Disconnected
ERDS COMPUTER	Terminated
COMMUNICATOR TASK	Inactive

NOTE: Status Column will display: Connect - Connected - Transmitting

___ 3.1.8 Select the ACTIVATE Target Area with the mouse, OR press the F1 Keyboard Key to initiate ERDS transmission from the OAC MMI.

A. Record the Date and Time Unit 1 ERDS transmission was initiated below:

Date _____ Time _____ Initials _____

___ 3.1.9 Verify that the Communication Task status, under the STATUS column, displays the following: **LINK REQUESTED.**

___ 3.1.10 Verify that the ERDS Computer status, under the STATUS column, displays the following: **ACCEPTED.**

___ 3.1.11 **IF** ERDS does not connect with the NRC after five attempts, **THEN** Notify the NRC using the ENS Phone Line.

A. Record the Date and Time of this notification.

Date _____ Time _____ Initials _____

___ 3.1.12 **IF** Instructed by the NRC to restart ERDS transmission, **THEN** Select the RECONNECT Target Area with the mouse, OR press the F3 Keyboard Key to reconnect ERDS to the NRC from the OAC MMI.

A. Record the Date and Time Unit 1 ERDS transmission was reconnected below:

Date _____ Time _____ Initials _____

___ 3.1.13 **IF** Multiple ERDS Computers are required to be started, **THEN** GOTO Step 2.1.5 of this procedure.

___ 3.1.14 **IF** Multiple ERDS Computers are not required to be started, **THEN** GOTO Step 3.4 of this procedure.

3.2 Unit 2 ERDS Operation

NOTE: Computers in the TSC and OAC room (located outside Unit 1&2 CR) can be used to activate ERDS.

ERDS can only be activated by an SRO or the NRC TSC Communicator. These individuals must change the Security Level for the computer. (Step 3.2.4)

- _____ 3.2.1 **IF** The computer was logged onto the network,
 THEN GOTO Step 3.2.3.
- _____ 3.2.2 **IF** The computer and monitor are OFF,
 THEN Turn the computer and monitor ON by depressing the power switch.
- _____ 3.2.3 Click on Unit 2 **ERDS Activation Icon**

NOTE: SDS Security Levels can only be changed with computers assigned access to the USER ID and PASSWORD listed below.

- 3.2.4 Type **CSL** in the Turn-On Code Area, **OR** select **Change Security Level** (first option) from the pull down Main Menu and the Admin Menu options list.
 - A. Select the **Change Security Level** button
 - B. Select the **OK** Button
 - C. Enter the applicable **USER ID** and **PASSWORD**:

<u>USER ID</u>	<u>PASSWORD</u>
ERDS	ERDSADM
- _____ 3.2.5 Verify that the Unit 2 OAC MMI (Operational Aid Computer Man Machine Interface) is selected by ensuring that the bottom right hand corner of the display indicates **Ocone 2**.
- _____ 3.2.6 Type **ERDS** in the Turn-On Code Area, **OR** select the **ERDS Display**, from the OAC MMI, by selecting ERDS from the pull-down Main Menu and the General Sub-Menu.

- ____ 3.2.7 Verify that the ERDS display, under the STATUS column, indicates the following:
- | | |
|-------------------|--------------|
| MODEM | Disconnected |
| ERDS COMPUTER | Terminated |
| COMMUNICATOR TASK | Inactive |

NOTE: Status Column will display: Connect - Connected - Transmitting

- ____ 3.2.8 Select the ACTIVATE Target Area with the mouse, OR press the F1 Keyboard Key to initiate ERDS transmission from the OAC MMI.
- A. Record the Date and Time Unit 2 ERDS transmission was initiated below:

Date _____ Time _____ Initials _____

- ____ 3.2.9 Verify that the Communication Task status, under the STATUS column, displays the following: LINK REQUESTED.

- ____ 3.2.10 Verify that the ERDS Computer status, under the STATUS column, displays the following: ACCEPTED.

- ____ 3.2.11 **IF** ERDS does not connect with the NRC after five attempts, **THEN** Notify the NRC using the ENS phone line.

- A. Record the Date and Time of this notification.

Date _____ Time _____ Initials _____

- ____ 3.2.12 **IF** Instructed by the NRC to restart ERDS transmission, **THEN** Select the RECONNECT Target Area with the mouse, OR press the F3 Keyboard Key to reconnect ERDS to the NRC from the OAC MMI.

- A. Record the Date and Time Unit 1 ERDS transmission was reconnected below:

Date _____ Time _____ Initials _____

- 3.2.13 **IF** Multiple ERDS Computers are required to be started, **THEN** GOTO Step 2.1.5 of this procedure.

- 3.2.14 **IF** Multiple ERDS Computers are not required to be started, **THEN:** GOTO Step 3.5 of this procedure.

3.3 Unit 3 ERDS Operation

NOTE: Computers in the OAC room, TSC or OSC (located outside U3 CR) can be used to activate ERDS.

ERDS can only be activated by an SRO or the NRC TSC Communicator. These individuals must change the Security Level for the computer. (Step 3.3.4)

- ___ 3.3.1 **IF** The Computer was logged onto the network,
 THEN GOTO Step 3.3.3.
- ___ 3.3.2 **IF** The computer and monitor are OFF,
 THEN Turn the computer and monitor ON by depressing the power switch.
- 3.3.3 Click on Unit 3 ERDS Activation Icon.

NOTE: SDS Security Levels can only be changed with computers assigned access to the USER ID and PASSWORD listed below.

- 3.3.4 Type **CSL** in the Turn-On Code Area, **OR** select **Change Security Level** (first option) from the pull down Main Menu and the Admin Menu options list.
- A. Select the **Change Security Level** button
- B. Select the **OK** Button
- C. Enter the applicable **USER ID** and **PASSWORD**:
- | <u>USER ID</u> | <u>PASSWORD</u> |
|----------------|-----------------|
| ERDS | ERDSADM |
- ___ 3.3.5 Verify that the Unit 3 OAC MMI (Operational Aid Computer Man Machine Interface) is selected by ensuring that the bottom right hand corner of the display indicates **Ocone 3**.
- ___ 3.3.6 Type **ERDS** in the Turn-On Code Area, **OR** select the **ERDS Display**, from the OAC MMI by selecting ERDS from the pull-down Main Menu and the General Sub-Menu.

____ 3.3.7 Verify that the ERDS display, under the STATUS column, indicates the following:

MODEM	Disconnected
ERDS COMPUTER	Terminated
COMMUNICATOR TASK	Inactive

NOTE: Status Column will display: Connect - Connected - Transmitting

____ 3.3.8 Select the **ACTIVATE** Target Area with the mouse, **OR** press the **F1** Keyboard Key to initiate ERDS transmission from the OAC MMI.

A. Record the Date and Time Unit 3 ERDS transmission was initiated below:

Date _____ Time _____ Initials _____

____ 3.3.9 Verify that the Communication Task status, under the STATUS column, displays the following: **LINK REQUESTED**.

____ 3.3.10 Verify that the ERDS Computer status, under the STATUS column, displays the following: **ACCEPTED**.

____ 3.3.11 **IF** ERDS does not connect with the NRC after five attempts, **THEN** Notify the NRC using the ENS phone line.

A. Record the Date and Time of this notification.

Date _____ Time _____ Initials _____

____ 3.3.12 **IF** Instructed by the NRC to restart ERDS transmission, **THEN** Select the **RECONNECT** Target Area with the mouse, **OR** press the **F3** Keyboard Key to reconnect ERDS to the NRC from the OAC MMI.

A. Record the Date and Time Unit 3 ERDS transmission was reconnected below:

Date _____ Time _____ Initials _____

3.3.13 **IF** Multiple ERDS Computers are required to be started, **THEN** GOTO Step 2.1.5 of this procedure.

3.3.14 **IF** Multiple ERDS Computers are not required to be started, **THEN** GOTO Step 3.6 of this procedure.

3.4 Stop Unit 1 ERDS data transmission after the event has terminated.

3.4.1 Reset the Security Level by performing the following steps;

- A. Press the F1 keyboard key to return to the Unit Overview display
- B. Type CSL
- C. Select the Change Security Level button
- D. Select the OK button
- E. Enter the applicable USER ID and PASSWORD:

<u>USER ID</u>	<u>PASSWORD</u>
ERDS	ERDSADM

3.4.2 Select the TERMINATE Target Area OR the F2 Key to stop the ERDS transmission from the OAC MMI.

3.4.3 Record the Date and Time Unit 1 ERDS Computer transmission was stopped below.

Date _____ Time _____

3.4.4 Close the SDS session by selecting EXIT from the pull-down Main Menu.

3.4.5 Shutdown the ERDS Computer as follows:

- A. Select File from the Menu Bar
- B. Select Shutdown from the listed options
- C. Select the Shutdown button from the Pop-Up Menu
- D. Select the OK button

NOTE: The Shutdown process must be completed before performing this step.

3.4.6 Turn the Computer OFF by pressing the power switch.

3.4.7 Turn the Monitor OFF by pressing the power switch.

3.5 Stop Unit 2 ERDS data transmission after the event has terminated.

3.5.1 Reset the Security Level by performing the following steps;

- A. Press the F1 keyboard key to return to the Unit Overview display
- B. Type CSL
- C. Select the Change Security Level button
- D. Select the OK button
- E. Enter the applicable USER ID and PASSWORD:

<u>USER ID</u>	<u>PASSWORD</u>
ERDS	ERDSADM

3.5.2 Select the TERMINATE Target Area OR the F2 Key to stop the ERDS transmission from the OAC MMI.

3.5.3 Record the Date and Time Unit 2 ERDS Computer transmission was stopped below.

Date _____ Time _____

3.5.4 Close the SDS session by selecting EXIT from the pull-down Main Menu.

3.5.5 Shutdown the ERDS Computer as follows:

- A. Select File from the Menu Bar
- B. Select Shutdown from the listed options
- C. Select the Shutdown button from the Pop-Up Menu
- D. Select the OK button

NOTE: The Shutdown process must be completed before performing this step.

3.5.6 Turn the Computer OFF by pressing the power switch.

3.5.7 Turn the Monitor OFF by pressing the power switch.

3.6 Stop Unit 3 ERDS data transmission after the event has terminated.

3.6.1 Reset the Security Level by performing the following steps;

- A. Press the F1 keyboard key to return to the Unit Overview display
- B. Type CSL
- C. Select the Change Security Level button
- D. Select the OK button
- E. Enter the applicable USER ID and PASSWORD:.

<u>USER ID</u>	<u>PASSWORD</u>
ERDS	ERDSADM

3.6.2 Select the TERMINATE Tartet Area OR the F2 Key to stop the ERDS transmission from the OAC MMI.

3.6.3 Record the Date and Time Unit 3 ERDS Computer transmission was stopped below.

Date _____ Time _____

3.6.4 Close the SDS session by selecting EXIT from the pull-down Main Menu.

3.6.5 Shutdown the ERDS Computer as follows:

- A. Select File from the Menu Bar
- B. Select Shutdown from the listed options
- C. Select the Shutdown button from the Pop-Up Menu
- D. Select the OK button

NOTE: The Shutdown process must be completed before performing this step.

3.6.6 Turn the Computer OFF by pressing the power switch.

3.6.7 Turn the Monitor OFF by pressing the power switch.

Duke Power Company
PROCEDURE PROCESS RECORD

PREPARATION

(2) Station OCONEE NUCLEAR STATION

(3) Procedure Title Operations Interface (EOF)

(4) Prepared By Ray Waterman (Signature) Ray Waterman Date 12/08/03

(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 Robert Taylor (QR) Date 1/12/04

Cross-Disciplinary Review By _____ (QR) NA #2 Date 1/12/04

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 Rodney Brown Date 1/12/04

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 Station Name	Procedure No. RP/0/B/1000/021
Operations Interface (EOF)	Revision No. 005
Reference Use	Electronic Reference No. OX002WPI

Operations Interface

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

1. Symptoms

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

2. Immediate Actions

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

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

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

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

3. Subsequent Actions

- 3.1 If the EOF is not open when you arrive, wait for Security personnel to open the EOF and establish entry control. After passing through Security, if it is a drill exercise, be sure to sign one of the Training Attendance sheets located in the entrance area so that you will receive credit for participating in the drill. Participation in, or observation of, at least one drill or EOF activation every 2 years is a requirement for the Ops Interface Manager position.
- 3.2 If you are the first Ops Interface Manager to arrive at the EOF, sign in on the status board in the EOF Director's area. Even if you are not the scheduled Ops Interface Manager, sign yourself in at that position until the duty person arrives. Then turn over to the duty Ops Interface Manager and replace your name on the board with his.
- 3.3 Obtain working copies of the procedure RP/0/B/1000/021, (Operations Interface) and of the Emergency Classification procedure (RP/0/B/1000/001) from the procedures cart in the EOF Director's area.
- 3.4 Connect to the Operations Communications Bridge network:
 - 3.4.1 Using wireless headset phone, remove the headset from the cradle and push talk/hang up button and a dial tone should be heard.
 - 3.4.2 Dial 66. Another dial tone should be received.
 - 3.4.3 Dial 4908. Several rings will occur and then one beep. The beep indicates that you have successfully dialed into the communications bridge. (Everyone already on the telephone bridge will also hear the beep to let them know that someone else has joined them).
 - 3.4.4 Push talk/hang-up button to hang phone up
 - 3.4.5 Should headset phone not work revert back to QTR-2 belt pack radio/headset located in Emergency Supply Cabinet and see instructions on use in Enclosure 4.4.
 - 3.4.6 After connecting to the Operations Communication Bridge, identify yourself to those already on the bridge. Your primary contact for information will be the Operations Liaison, who is also the primary communications link between the Control Room and the TSC.
 - A. Begin collecting preliminary data about the emergency, but keep voice traffic to a minimum in order to not interfere with the Control Room/TSC link.
 - B. Begin filling out Enclosure 4.3, (Operations Interface Manager Initial Report), which is attached to this procedure.

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

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

3.5 Activate the Satellite Display System

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

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

3.5.3 The SDS (Satellite Display System) information for all units and simulator is located at the Operations Interface Manager's station in the EOF and also in Rad. Dose Assessment group area.

3.5.4 Access computer using your user ID.

3.5.5 Go to DAE, if SDS information is not in "My Applications" use search and type in SDS. Add to "My Applications".

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

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

3.5.8 Navigate through the SDS screens to monitor desired parameters.

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

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

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

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

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

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

4. Enclosures

- 4.1 Operations Interface Organization and Responsibilities
- 4.2 Telephone Numbers
- 4.3 Operations Interface Manager Initial Report
- 4.4 Operating Instructions for QTR-2 Radio/Headset Belt-pack

Enclosure 4.1
Operations Interface Organization And
Responsibilities

RP/0/B/1000/021
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1. Operations Interface Organization and Responsibilities

1.1 Organization

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

1.2 Duty Roster

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

1.3 Responsibilities

1.3.1 The **primary** responsibility of the Ops Interface Manager is to ensure that the EOF Director has complete and up-to-date information on which to base the declared Emergency Action Level for the event.

1.3.2 Additional duties may include assisting other groups at the EOF with technical information about the event, maintaining the Event and Equipment status boards, and tracking the progress of the mitigating actions via the Operations Communications Bridge.

Enclosure 4.3
Operations Interface Manager Initial Report

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

1. PRESENT EAL _____ DECLARED TIME/DATE _____

INITIAL EAL _____ DECLARED TIME/DATE _____

2. INITIATING EVENT: Unit _____

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

IMPROVING _____ STABLE _____ DEGRADING _____

4. STATUS OF UNAFFECTED UNITS:

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

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

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

**Operating Instructions For QTR-2
Radio/Headset Belt-pack****1. Instructions**

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

- 1.1.1 Replace the batteries in the Operations Interface QTR-2 Radio/Headset belt pack with two fresh 9V batteries from the supply room in the EOF. (A fresh set of batteries provides a minimum duty cycle of six hours).
- 1.1.2 Put the headset on and turn the power for the QTR-2 radio (belt pack unit) on using the Volume control switch located on top of the belt pack unit. The "Power On" LED should come on.
- 1.1.3 The FDL₃ Repeater is the "base unit" sitting on the table. (It has the Rolm phone base unit plugged into the back.) Turn power on to the repeater by flipping the toggle switch up. The "Power On" and the "Channel #1" LED's should now be lit.
- 1.1.4 The "P-T-T" (push-to-talk) transmit switch on top of the belt pack unit is a three-position rocker switch:
- When the right side of the switch is pressed to the "CONT" position, the radio is locked into a continuous communication mode of operation, where, whenever you speak, your voice is transmitted.
 - Rocking the switch back to the neutral position blocks voice transmission from your unit.
 - The spring-return to neutral P-T-T position allows voice transmission from your unit for as long as the switch is held in the P-T-T position.

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

- 1.1.5 Adjust the volume to the headset with the volume control knob on the belt pack unit. The volume control knob on the repeater unit has no function in our present mode of operation.

Duke Power Company
PROCEDURE PROCESS RECORD

PREPARATION

(2) Station OCONEE NUCLEAR STATION

(3) Procedure Title Fire Brigade Response

(4) Prepared By Robert Taylor (Signature) *Robert Taylor* Date 12/22/03

- (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 *T. R. Lacey* (QR) Date 12-22-03

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

Reactivity Mgmt Review By _____ (QR) NA *TL* Date _____

Mgmt Involvement Review By _____ (Ops Supt) NA *TL* Date _____

(7) Additional Reviews

Reviewed By _____ Date _____

Reviewed By _____ Date _____

Temporary Approval (if necessary)

By _____ (OSM/QR) Date _____

By _____ (QR) Date _____

(9) Approved By *Rodney Brown* Date 12/22/03

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)

**Duke Power Company
Oconee Nuclear Station**

Fire Brigade Response

Reference Use

Procedure No.

RP/0/B/1000/029

Revision No.

010

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 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 Instructions for DE-energizing Transformers
- 4.7 References

Enclosure 4.1
Fire Brigade Response - Routine Operations

RP/0/B/1000/029
Page 1 of 10

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

RP/0/B/1000/029
Page 2 of 10

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

RP/0/B/1000/029
Page 3 of 10

_____ 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

<p>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}</p>

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

RP/0/B/1000/029
Page 4 of 10

- _____ 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.

NOTE: A plant page announcement is needed to ensure evacuation of fire locations.

- _____ 1.4.6 All Non Fire Brigade personnel please evacuate (all levels of) _____ (fire location area). {8}

No one is to enter (any levels of) _____ (fire location area) until further notification.

Example: MSB canteen: Evacuate entire building

1st. floor admin. building: Evacuate entire building

- _____ 1.4.7 Get staging area location from the Fire Brigade Leader then repeat Steps 1.4.3.B, 1.4.4 and 1.4.5.

- _____ 1.4.8 Notify SRO to evaluate the need for staging personnel at the SSF.

- _____ 1.4.9 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)

- _____ 1.4.10 **IF** Hazardous materials are involved,
THEN Refer to RP/0/B/1000/017 (Spill Response Procedure)

Enclosure 4.1
Fire Brigade Response - Routine Operations

RP/0/B/1000/029
Page 5 of 10

___ 1.4.11 **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

___ 1.4.12 **IF** Any of the following transformers requires immediate de-energizing:
#1, #2, #3, 1T, 2T, 3T, CT1, CT2, CT3, 3X,3Y, 3Z or 3S

THEN Go to Enclosure 4.6. {9}

NOTE: Minimum flow concerns for HPSW pumps can develop if an HPSW pump is operating with discharge flow <1450 gpm. Most deluge/mulsifyre systems satisfy this requirement therefore, 1.4.13.A may not be necessary if large quantities of water are being discharged from the HPSW system.

___ 1.4.13 **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.

Enclosure 4.1
Fire Brigade Response - Routine Operations

RP/0/B/1000/029
Page 6 of 10

NOTE: HPSW Pump should be started \leq 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}
- D. Evaluate any Auxiliary Building Flooding Concerns (Refer to Auxiliary Building Flood AP). {2}

NOTE: The 16 inch HPSW supply lines to the Auxiliary Building are isolated due to the potential for Auxiliary Building flooding.

___ 1.4.14 **IF** It is desired to increase water pressure and flow to the Auxiliary Building
THEN Take actions as necessary to open HPSW-20 and HPSW-21. {10}

___ 1.4.15 **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.
- 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

- 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. 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: 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
or
- 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

RP/0/B/1000/029
Page 1 of 8

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).

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

RP/0/B/1000/029
Page 3 of 8

- _____ 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** Any of the following transformers requires immediate de-energizing:
- #1, #2, #3, 1T, 2T, 3T, CT1, CT2, CT3, 3X, 3Y, 3Z or 3S
- THEN** Go to Enclosure 4.6. {9}

Enclosure 4.2
Fire Brigade Response - OSC/TSC Activation

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- 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.

1.3.13 **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

RP/0/B/1000/029
Page 8 of 8

- _____ 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.

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

RP/0/B/1000/029
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 - - (Fire active > 5 minutes after extinguishing agent is applied) - 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 (≥ 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	

1 Unit 1 Transformers

1.1 **IF** Transformer 1 and/or 1T is affected perform the following:

IF Desired, electrically isolate affected transformer 1, 1T as follows:

- Trip Unit 1 Turbine-Generator
- Ensure open PCB-20
- Ensure open PCB-21
- Ensure Auxiliaries transfer.

Within 4 hours, open Red and Yellow Bus Disconnects for the open PCBs.

IF Transformer CT1 multisyre is affected, perform the following:

IF Desired, electrically isolate affected transformer CT1 as follows:

- Ensure open PCB-17
- Ensure open PCB-18
- Ensure 1TA AUTO-MAN Transfer Switch in MAN
- Ensure open 1TA SU 6.9 KV FDR Breaker
- Ensure 1TB AUTO-MAN Transfer Switch in MAN
- Ensure open 1TB SU 6.9 KV FDR Breaker
- Ensure MFB1 AUTO-MAN Transfer Switch in MAN
- Ensure open E11 MFB1 STARTUP FDR breaker
- Ensure MFB2 AUTO-MAN Transfer Switch in MAN
- Ensure open E21 MFB2 STARTUP FDR breaker.

Refer to SLC 16.9.2 and NSD-316.

Within 4 hours, open Red and Yellow Bus Disconnects for the open PCBs.

Enclosure 4.6
Instructions for De-energizing Transformers

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2. Unit 2 Transformers

2.1 **IF** Transformer 2 and/or 2T is affected perform the following:

IF Desired, electrically isolate affected transformer 2, 2T as follows:

- Trip Unit 2 Turbine-Generator
- Ensure open PCB-23
- Ensure open PCB-24
- Ensure Auxiliaries transfer.

Within 4 hours, open Red and Yellow Bus Disconnects for the open PCBs.

IF Transformer CT2 multisyre is affected, perform the following:

IF Desired, electrically isolate affected transformer CT2 as follows:

- Ensure open PCB-26
- Ensure open PCB-27
- Ensure 2TA AUTO/MAN Transfer Switch in MANUAL
- Ensure open 2TA SU 6.9 KV FDR Breaker
- Ensure 2TB AUTO/MAN Transfer Switch in MANUAL
- Ensure open 2TB SU 6.9 KV FDR Breaker
- Ensure MFB1 AUTO/MAN Transfer Switch in MANUAL
- Ensure open E1 MFB1 STARTUP FDR breaker
- Ensure MFB2 AUTO/MAN Transfer Switch in MANUAL
- Ensure open E2, MFB2 STARTUP FDR breaker.

Refer to SLC 16.9.2 and NSD-316

Within 4 hours, open Red and Yellow Bus Disconnects for the open PCBs.

3. Unit 3 Transformers

3.1 **IF** Transformer 3X, 3Y, 3Z, 3S, 3T is affected perform the following:

NOTE: If the transformer which is **NOT** connected to the system is involved, it is **NOT** required to be isolated.

IF Desired, electrically isolate affected transformer 3X, 3Y, 3Z, 3S, 3T as follows:

- Trip Unit 3 Turbine-Generator
- Ensure open PCB-58
- Ensure open PCB-59
- Ensure Auxiliaries transfer.

Within 1 hour, open Red and Yellow Bus Disconnects for the open PCBs.

IF Transformer CT3 multisyre is affected, perform the following:

IF Desired, electrically isolate affected transformer CT3 as follows:

- Ensure open PCB-28
- Ensure open PCB-30
- Ensure 3TA AUTO-MAN Transfer Switch in MANUAL
- Ensure open 3TA SU 6.9 KV FDR Breaker
- Ensure 3TB AUTO-MAN Transfer Switch in MANUAL
- Ensure open 3TB SU 6.9 KV FDR Breaker
- Ensure MFB1 AUTO-MAN Transfer Switch in MANUAL
- Ensure open E13 MFB1 STARTUP FDR breaker
- Ensure MFB2 AUTO-MAN Transfer Switch in MANUAL
- Ensure open E23 MFB2 STARTUP FDR breaker.

Refer to SLC 16.9.2 and NSD-316

Within 4 hours, open Red and Yellow Bus Disconnects for the open PCBs.

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
- {8} PIP 03-01359
- {9} PIP 02-04929
- {10} PIP 98-3017