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Vice President

March 23, 2000

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

Subject: Oconee Nuclear Station
Docket Nos. 50-269, -270, -287
Emergency Plan Implementing Procedures Manual
Volume B, Revision 2000-02

Please find attached for your use and review copies of the revision to the Oconee Nuclear Station Emergency Plan:

Volume B Revision 2000-02 March, 2000

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

Any questions or concerns pertaining to this revision please call Mike Thorne, Emergency Planning 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, Georgia 30303

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

A045

March 23, 2000

OCONEE NUCLEAR SITE

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

Please make the following changes to the Emergency Plan, Volume B
by following these instructions.

REMOVE

Cover Sheet Rev. 2000-01
Table of Contents page 2
Chemistry Manual 5.1 - 09/29/99
Maintenance Directive 9.1
- 01/21/99
Safety Services Procedure 2.1
- 01/05/98

ADD

Cover Sheet Rev. 2000-02
Table of Contents page 2
Chemistry Manual 5.1 - 03/08/00
Maintenance Directive 9.1
- 02/28/00
Safety Services Procedure 2.1
- 03/14/00

If you have any questions regarding this revision please contact
Mike Thorne at ext. 885-3210.

DUKE POWER
EMERGENCY PLAN
IMPLEMENTING PROCEDURES
VOLUME B



APPROVED:

W. W. Foster, Manager
Safety Assurance

03/23/00
Date Approved

03/23/00
Effective Date

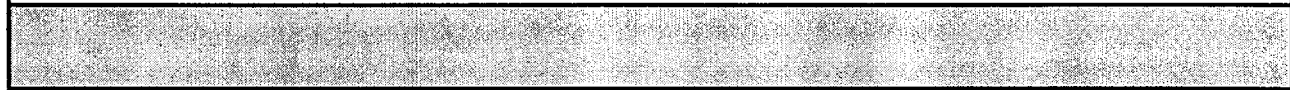
VOLUME B
REVISION 2000-02
MARCH, 2000

VOLUME B
TABLE OF CONTENTS

Chemistry Manual 5.1	Emergency Response Guidelines - (03/08/00)
Chemistry Manual 5.2	Post Accident Procedure Use Guidelines - (12/28/99)
Maintenance Directive 9.1	Emergency Preparedness Plan Activation - (02/28/00)
Maintenance Directive 9.2	Emergency Plan For Members Of The Work Control Group - (07/30/94)
OMP 1-7	Operations Emergency Response Organization - (09/28/99)
Radiation Protection Manual 11.1	Radiation Protection Emergency Response - (09/01/98)
Radiation Protection Manual 11.4	Radiation Protection Site Assembly - (09/08/98)
Safety Services Procedure 2.1	Safety Services Emergency Response Procedure 2.1 - (03/14/00)

INFORMATION ONLY

CHEMISTRY MANUAL 5.1 EMERGENCY RESPONSE GUIDELINES



<u>REVISION NUMBER</u>	<u>ISSUE DATE</u>
Original	10/25/83
1	09/27/95
2	11/30/95
3	01/24/96
4	03/14/96
5	09/16/96
6	10/31/96
7	11/26/96
8	01/02/97
9	09/22/97
10	11/20/97
11	03/12/98
12	06/15/98
13	08/24/98
14	02/04/99
15	05/27/99
16	09/29/99
17	3/7/00

Prepared by: Pam Motter Date: 3/7/00

10CFR50.59 required: Yes _____ No

Approval: Bryan J. Moore Date: 3/7/00

Control Copies delivered to Emergency Planning: Pam Motter
Date: 3/8/00

Emergency Response Guidelines

NOTE: Seven Control Copies and one Information Only copy of this CSM shall be routed to the Emergency Preparedness Team within three (3) working days following any approved changes/modifications.

1. Purpose

- 1.1 To identify members of the Chemistry Emergency Response Organization and their responsibilities.
- 1.2 Provide preplanned responses to emergency situations that may arise.

2. Chemistry Emergency Response Organization

- 2.1 The positions identified in Enclosure 6.1 may be filled by personnel identified in Enclosure 6.2.
- 2.2 Chemistry Manager, Chemistry Team Leader or Senior Scientist may serve as Chemistry Manager in the OSC as identified in Enclosure 6.2. During backshift, holidays and weekends the Radwaste shift/coverage person will be the Chemistry Single Point of Contact until relieved.
- 2.3 A list of alternates for other positions is identified in Enclosure 6.2. These personnel may be designated by the Chemistry Manager as essential or non-essential as the emergency condition or event dictates.
- 2.4 The responsibilities of the Chemistry Emergency Response Organization are contained in Enclosure 6.3.
- 2.5 Once the OSC is activated for emergency response, all activities of field teams prior to, during, and thereafter become the responsibility of the OSC to coordinate and control. Upon the activation of the OSC all chemistry activities currently in progress should be turned over to the OSC for coordination. The turnover should at a minimum include:
 - Emergency Job(s) in the field
 - Communication capability with the field team
 - Emergency equipment out of service/job description
 - Status of plant including power availability

If approval to continue is given, an OSC task sheet should be submitted to document the activity(s).

- 2.6 When calling in personnel who are off site, determine Fitness for Duty per Enclosure 6.4.
- 2.7 The Chemistry Emergency Response Organization work schedule should be established as the emergency condition or event dictates.
- 2.8 The Chemistry Emergency Response Organization should use Enclosure 6.5 and 6.6 to assist in planning sampling, analysis, and chemical addition activities during an emergency situation.
- 2.9 If G.O. Chemistry support is needed, contact one of the following per the Chemistry Emergency phone list in the OSC file:
- | | |
|-----------------|---------------|
| R. W. Eaker | M. K. Johnson |
| D. P. Rochester | P. W. Downing |
- 2.10 Expectations for Communication in the OSC:
- 2.10.1 Use the 4 communication techniques which help reduce errors:
- Communications will be directed.
 - Use repeat backs (I send, you repeat, I confirm).
 - Radio / telephone communications should include name and location.
 - Use the phonetic alphabet for train designations.
- 2.10.2 Teams dispatched from the OSC will take a radio or have access to a radio. Chemistry staff in the OSC will have access to a radio.
- 2.10.3 Radio communications will be verified. If radio communication **CANNOT** be made, the dispatched team will call Chemistry Staff in the OSC at 3858 or 3495 to determine how communications will be handled.
- 2.10.4 Prior to the team leaving the OSC, specify when communications will be required (e.g., when the team reaches the task area, every 30 minutes, when results are obtained, etc.).
- 2.10.5 Tasks are to be completed as directed from the OSC. Should conditions change, notify Chemistry Staff in the OSC immediately. Do **NOT** go off on another task without direction from the OSC.

3. Chemistry Response to Site Assembly During Normal Working Hours (Monday through Thursday excluding holidays)

3.1 Inside the Protected Area:

- Personnel shall assemble at their respective Chemistry office.
- Upon arriving at assembly location,
 - Card in (swipe security badge)
 - Report accountability to Team Leader or designee
 - Remain in the assembly location until given further instructions by the Emergency Coordinator.
- Personnel who assemble at an alternate Chemistry office shall:
 - Card in (swipe security badge)
 - Report accountability to their Team Leader or designee
 - Remain in the assembly location until given further instructions by the Emergency Coordinator.
- Personnel working in the RCA/RCZ who are wearing protective clothing shall:
 - Proceed to the change room
 - Frisk appropriately
 - Card in (swipe security badge)
 - Contact their Team Leader or designee to report their location
 - Wait for further instructions
- Personnel who **CANNOT** reach their card reader / assembly location within 30 minutes of the Site Assembly alarm shall:
 - Immediately call their Team Leader or designee
 - Proceed to their card reader / assembly location as soon as possible

- Personnel engaged in critical work activities: (e.g., resin bed regeneration, valve / equipment operation related to the event, critical path work, work of a sensitive nature associated with the Security Plan, Fire Plan, or Nuclear Safety)
 - must contact their Team Leader or designee to provide their names, work location, nature of work, estimated time to completion, and any other relevant information.
 - Team Leaders shall relay pertinent information through the Chemistry Manager to the OSC Coordinator/Manager, who then assumes responsibility for the industrial and radiological safety of the workers.
 - For drills, such arrangements may be made in advance by location management and Emergency Planning.
- Team Leaders or designee will report location and numbers to the Administrative Specialist at ext. 3856.

3.2 Outside the Protected Area

- Environmental Chemistry personnel shall:
 - Assemble in the Environmental Chemistry office area.
 - Report their accountability to their Team Leader or designee.
 - Team Leader or designee will provide location and numbers to the Administrative Specialist at ext. 3856.
 - Personnel shall not enter the Protected Area unless they are responding to the OSC and shall keep their Team Leader or designee informed of their location until the Emergency Coordinator terminates the Site Assembly.

3.3 The Administrative Specialist will report accountability to the Security Shift Supervisor at ext. 5050 no later than 20 minutes after the initiation of Site Assembly. She will leave a message stating her name, department name, number and names of missing personnel.

3.4 When personnel accountability has been completed as part of the Site Assembly, one of the following will occur:

- 3.4.1 If the Assembly was a test of response time and accountability procedures or if the requirement for an assembly no longer exists, permission to return to normal duties will be given by the Operations Shift Manager/Emergency Coordinator.

- 3.4.2 Plant conditions may require activation of the Site Emergency Response Organization. The notification to establish the Technical Support Center (TSC) and Operational Support Center (OSC) should be made over the PA system. The Chemistry Manager/Alternate should then implement the Organization outlined in Enclosure 6.1.
- 3.4.3 Other instructions may be given by the Operations Shift Manager / Emergency Coordinator.

4. Chemistry Response to Site Assembly During Backshifts, Weekends, and Holidays

- 4.1 All Chemistry personnel should assemble at their normal office area or any other Chemistry Assembly point, card in (swipe their badge), and report their location to the Radwaste Control Room at ext. 3230. The Radwaste shift/coverage person should account for all Chemistry personnel on site. The accountability should be reported by calling ext. 5050 with name, location, and number of people accounted for including names of any personnel presently not accounted for. All jobs in progress should be safely secured before reporting.
- 4.2 When personnel accountability has been completed as part of a Site Assembly one of the following may occur:
 - 4.2.1 If the Assembly was a test of response time and accountability procedures or if the requirement for an assembly no longer exists, permission to return to normal duties should be given by the Operations Shift Manager/Emergency Coordinator.
 - 4.2.2 Plant conditions may require activation of the Site Emergency Response Organization. The notification to establish the TSC/OSC shall come from the Operations Shift Manager/Emergency Coordinator. The Radwaste shift/coverage person will establish the Chemistry Organization and act as Chemistry Single Point of Contact until relieved by Chemistry Manager or designee.
 - 4.2.3 Other instructions may be given by the Operations Shift Manager/ Emergency Coordinator.

5. Chemistry Response to Site Evacuation Announcement

NOTE: A Site Assembly alarm will always precede a Site Evacuation Announcement.

- 5.1 Based on plant conditions or radiological conditions, the Emergency Coordinator makes a determination that Site Evacuation / Relocation is warranted.
- 5.2 TSC requests OSC personnel to prepare for Site Evacuation / Relocation.
- 5.3 Chemistry management will identify essential / non-essential personnel and provide information to Group Evacuation Coordinator at ext. 3856.
- 5.4 TSC Offsite Communicator makes PA announcement to initiate Site Evacuation / Relocation.
- 5.5 Group Evacuation Coordinator accesses Evacuation / Relocation instructions through the DAE (Duke Application Environment) and coordinates evacuation / relocation of assigned personnel by notifying Team Leaders or designee.
- 5.6 Personnel being relocated to Oconee Training Center or Oconee Complex should notify the Group Evacuation Coordinator at ext. 3856 of their location and a number where they can be reached. The Group Evacuation Coordinator will then notify TSC/OSC/EOF Managers.

6. Enclosures

- 6.1 Chemistry Emergency Response Organization
- 6.2 Designation of Essential Chemistry Personnel
- 6.3 Responsibilities of Emergency Response Organization
- 6.4 Fitness For Duty Questions for Call Outs (if needed)
- 6.5 Post Accident Sampling and Analysis Checklist
- 6.6 Post Accident Chemical Addition Checklist

Enclosure 6.1 CSM 5.1
Chemistry Emergency Response Organization Page 1 of 1
(Minimum Staffing)

NOTE: OSC - Operational Support Center - the area in the back of the Unit 3 Control Room.

* - 75 minute response time

OSC

Chemistry Manager * (one)

(phone: ext. 3495)

OSC

Chemistry Area Manager (one)

(phone: ext. 3858)

OSC

Chemistry Staff Support (one)

OSC

Chemistry Specialist (five)

1. Operational Support Center (OSC)

NOTE: For Initial Response, one Chemistry Manager **OR** Area Manager is all that is required to respond. For extended drills and all emergencies, two persons are required.

1.1 Chemistry Manager / Area Manager (one) - OSC phone 3495

Bryon Norris	Dean Cantrell
Rick Wright	Jeff Bramblett
Dale White	Andy Perry
Charlie McIlwain	

NOTE: Two Staff persons will be called out per the Community Alert Network System.

1.2 Chemistry Staff Support (one) - OSC phone 3858

Roger Smith	Mike Garrison
Dedrick Wald	Steve Davenport
Ellen Morris	Keith Beddingfield
Garen Denard	Amanda Breland

Enclosure 6.2
Designation of Essential Chemistry Personnel

CSM 5.1
Page 2 of 2

NOTE: Only five technicians are required although as many as seven may respond (includes two shift persons (minimum staffing requirements) plus five persons to be called by the Community Alert Network System).

Included in the minimum staffing is the requirement that the qualifications of the two shift persons in combination will allow RCS sampling and PALS operation.

1.3 Chemistry Technicians / Specialists (five)

Secondary	Environmental	Primary	Radwaste
Lance Young	Mike McCoy	Sherri Williams	Cliff Adams
Saverne Williams	Rick Morris	Dennis Earle	Dale Graham
Ida Huff	Jac Cashin	Gina Roach	Roy Hanks
Lawrence Nesbitt	Ronnie Tucker	Charlie Hendricks	Mark Sanders
Skip Fletcher	Sherry Wilson	Emmie Singleton	Sharon Strickland
Lynette Wright	Peri Smith	Dana Gaillard	Bobby Poston
E. T. Moss		Vivian Howell	Jake Lamey
Harold Bruce		Ann Clark	Greg Aldrich

**Enclosure 6.3
Responsibilities of
Emergency Response Organization**

CSM 5.1
Page 1 of 4

1. Responsibilities of the Chemistry Manager

- 1.1 Set up the Chemistry Emergency Response Organization for OSC and Chemistry Office. Designate non-essential personnel.

NOTE: Appropriate procedures are located in OSC in the identified file cabinet.

- 1.2 Keep the OSC Coordinator informed of current status of Chemistry areas of responsibility.
- 1.3 Inform OSC Coordinator of any Chemistry Emergency Response Activities initiated prior to the activation of OSC.
- 1.4 Maintain assessment of the emergency and recovery efforts and identify trends and conditions that have the potential to cause changes in the chemical parameters of the emergency situation.
- 1.5 Participate in the development of recovery programs in Chemistry areas of responsibility.
- 1.6 Use Enclosures 6.5 and 6.6 as needed to plan sampling, analysis and/or chemical addition activities.
- 1.7 **IF** liquid radioactive releases are in progress, classify the release for the OSC/TSC.
- Releases \leq 10 EC are within normal limits.
 - Releases $>$ 10 EC are above normal limits.

2. Responsibilities of the Radwaste Shift/Coverage Person on Holidays, Weekends, Backshift

- 2.1 Serve as Single Point of Contact for Chemistry until relieved.
- 2.2 Account and report for all Chemistry personnel on-site during a Site Assembly. The accountability should be reported to Security at ext. 5050 within 20 minutes and should include name, location, and number of people accounted for including names of any personnel presently not accounted for.
- 2.3 Upon implementation of the Site Emergency Response, report to the Operational Support Center (OSC) and provide immediate support to the Operations Shift Manager.

NOTE: Appropriate procedures are located in the OSC in the file cabinet labeled Chemistry procedures.

Enclosure 6.3
Responsibilities of
Emergency Response Organization

CSM 5.1
Page 2 of 4

- 2.4 Inform OSC Coordinator of any Chemistry Emergency Response Activities prior to the activation of OSC.
- 2.5 **IF** radioactive releases are in progress, classify the release for the OSC/TSC.
- Releases \leq 10 EC are within normal limits.
 - Releases $>$ 10 EC are above normal limits.
- 2.6 No persons will need to be called out. One (1) Chemistry Manager/Alternate will always be on duty and will respond when their emergency response pager is automatically actuated. Five (5) technicians/specialists and two (2) area Staff support persons and one (1) Team Leader will be called out by the automated "Community Alert Network System".
- 2.7 In the event the Community Alert Network System fails or is out-of-service, Call Outs for the five technicians/specialists may be requested. Persons have the responsibility to respond to a call out (Management Procedure "Overtime, Call-Outs and 16-Hour Provision").
- Fitness for duty must be determined by asking the questions listed in Enclosure 6.4.
 - Two Staff persons from the Duty list should be paged a second time through the Switchboard Operator to please report to the OSC.

3. Responsibilities of the Chemistry Staff Support

- 3.1 Keep Chemistry personnel informed of current status of the emergency situation and recovery effort.
- 3.2 Implement control measures to operate the laboratory during emergency conditions.
- 3.3 Use Enclosures 6.5 and 6.6 as needed to plan sampling, analysis, and/or chemical addition activities.
- 3.4 Conduct pre-job briefings to:
- 3.4.1 Ensure employees are sufficiently familiar with the task to efficiently perform it under the anticipated conditions.
 - 3.4.2 Ensure materials, parts, tools, and equipment necessary to perform the task are proper for the job, are readily available, have electric or pneumatic power sources available, and are familiar to workers.

Enclosure 6.3
Responsibilities of
Emergency Response Organization

CSM 5.1
Page 3 of 4

- 3.4.3 Ensure workers assigned to the task have sufficient remaining exposure to contribute significantly to its completion and necessary requests for dose extensions are submitted in a timely manner and with proper justification.
- 3.4.4 Coordinate work activities with those of other work groups to achieve maximum efficiency in the task as a whole and to minimize the potential for unnecessary exposure due to poor communications or lack of proper planning/scheduling.

4. Responsibilities of Chemistry Technicians

- 4.1 Follow applicable emergency procedures unless directed to do otherwise by the Chemistry Manager.
- 4.2 Comply with requirements and special instructions of the applicable Radiation Work Permit (RWP), warning sign or barrier concerning radiation/contamination control unless directed to do otherwise by Radiation Protection or Chemistry Manager.
- 4.3 Know location of radiation sources and their dose rates at the task location or accesses. Utilize Low Exposure Waiting Areas where applicable. This information is to be provided by Radiation Protection personnel.
- 4.4 Ensure you are sufficiently familiar with the task to efficiently perform it under the anticipated conditions. Pre-job briefings should be conducted to ensure your complete understanding of the job. (Repeat any instructions given.)
- 4.5 Ensure you have sufficient remaining exposure to contribute significantly to the completion of the assigned task.

5. Training for Emergency Response Organization

NOTE: Emergency Response Training Module (OC-1818) was replaced with UALIIB (Radiation Worker Training).

5.1 Chemistry Manager / Team Leader

- Initial Chemistry Emergency Response Training (OC3704)
- Participate in at least one drill / two years (HS0537)
- Initial Training - OSC Facility Specific (OC7099)
- Chemistry Specific Emergency Plan / Response Yearly Update (OCC043)

5.2 Staff

- Initial Chemistry Emergency Response Training (OC3704)
- Participate in at least one drill / two years (HS0537)
- Initial Training - OSC Facility Specific (OC7099)
- Chemistry Specific Emergency Plan / Response Yearly Update (OCC043)

5.3 Technicians

- Initial Chemistry Emergency Response Training (OC 3704)
- Initial Training - OSC Facility Specific (OC 7099)
- Chemistry Specific Emergency Plan / Response Yearly Update (OCC043)

Enclosure 6.4
Fitness for Duty Questions for Call Outs

CSM 5.1
Page 1 of 1

1. Employees who acknowledge consumption of alcohol within 5 hours must be evaluated by supervision upon reporting to work. Evaluation may be by observation or breathalyzer.
2. **IF** the answer to the first question is no, the other questions should **NOT** be asked.
3. These questions apply to anyone being called out to work in the Protected Area of the plant, regardless of position or whether his/her name appears on a "duty list". Documentation of the phone call is **NOT** required by the Fitness for Duty "rule". However, if the call out results in a questionable situation, you may want this information documented.

The following questions MUST be asked to determine Fitness for Duty:

1. *Have you consumed alcohol in the last 5 hours?*
2. *What did you have?*
3. *How much did you have?*
4. *Can you perform your job unimpaired?*
5. *Can you drive?*

**Enclosure 6.5
Post Accident Sampling
and Analysis Checklist**

CSM 5.1
Page 1 of 4

NOTE: Do NOT use this Enclosure for documentation.

Date: _____ Time: _____ Unit: _____

_____ Sample requested by TSC.

Sample from:

Normal	PALSS	Appendix R
RCS - Pri. Sample Hood _____	RCS "J-Leg" _____	RCS "J-Leg" _____
RCS - Wst. Sample Hood _____	HPI Letdown _____	
LPI - Wst. Sample Hood _____	LPI Pump Disch. _____	

_____ Determine analysis / analyses to be performed and list below:

_____ Initiate OSC Task Work Sheet.

**Enclosure 6.5
Post Accident Sampling
and Analysis Checklist**

CSM 5.1
Page 2 of 4

Procedures / Lab Methods to be used:

<u> </u>	CP/1/A/2002/001	Unit One Primary Sampling System
<u> </u>	CP/2/A/2002/001	Unit Two Primary Sampling System
<u> </u>	CP/3/A/2002/001	Unit Three Primary Sampling System
<u> </u>	CP/1/A/2002/004 C	Operating Procedure for the Post Accident Liquid Sampling (PALS) System
<u> </u>	CP/2/A/2002/004 C	Operating Procedure for the Post Accident Liquid Sampling (PALS) System
<u> </u>	CP/3/A/2002/004 C	Operating Procedure for the Post Accident Liquid Sampling (PALS) System
<u> </u>	CP/0/A/2002/004 E	Reactor Coolant Sampling during an Appendix "R" Accident
<u> </u>	LM-O-P003 A	Determination of Boron Using the Mettler DL40GP
<u> </u>	LM-O-P008	The Determination of Hydrogen in Gas Samples using the Carle Gas Chromatograph
<u> </u>	LM-O-G912	pH Analysis by Accumet Model 25 pH/Ion Meter
<u> </u>	LM-O-P914	Ion Analysis - DX 500 IC
<u> </u>	LM-O-P919	Boron Analysis by Mettler DL-58 Titration
<u> </u>	LM-O-G004	Determination of Gamma Isotopic Activity
<u> </u>	CSM 5.2	Post Accident Procedure Use Guidelines

 Obtain applicable RIA readings from the Data Acquisition System or Control Room Liason:

<u>RIA</u>	<u>Reading</u>	<u>RIA</u>	<u>Reading</u>
RIA-4	_____mR/hr	RIA-32	_____CPM
RIA-8	_____mR/hr	RIA-57	_____R/hr
RIA-10	_____mR/hr	RIA-58	_____R/hr
RIA-13	_____mR/hr		

Enclosure 6.5
Post Accident Sampling
and Analysis Checklist

CSM 5.1
Page 3 of 4

SYSTEM SAMPLING:

- _____ Notify Operations Liaison an RP of support needs.
- _____ Determine number of Chemistry personnel required for sampling and analysis:
 Sampling: _____ Analysis: _____
- _____ Ensure assigned personnel have sufficient remaining exposure to complete assigned tasks by obtaining Dose Extensions as required.
- _____ Determine sample transporter to be used and its location.
- _____ Conduct planning session with Chemistry, RP, and Operations personnel involved in sampling to identify / define specific roles and responsibilities:
 - _____ A. Designate Chemistry personnel to perform sampling.
 - _____ B. Designate Chemistry personnel to support sampling at the RCZ / control point.
 - _____ C. Identify Chemistry and RP personnel assigned to perform analysis.
 - _____ D. Determine required respiratory equipment and protective clothing.
 - _____ E. Determine required equipment to support sampling (eg; radios, sample bottles, flashlights, etc.).
 - _____ F. Establish Low Dose Waiting Areas / control points.
 - _____ G. Determine stay-time(s) at PALS Panels.
 - _____ H. Determine "best" route for sample transport.
- _____ Obtain equipment required to support sampling.
- _____ Obtain keys required for sampling (located in the Chemistry OSC Emergency Procedures Cabinet).
- _____ Establish and maintain stay-time log at the RCZ / control point.

Enclosure 6.5
Post Accident Sampling
and Analysis Checklist

CSM 5.1
Page 4 of 4

ANALYSIS:

- _____ Determine additional RP support required during analysis.
- _____ Determine need to prepare back-up lab for analysis (RW Facility Lab).
- _____ Obtain and label carboys for storing / handling liquid waste.
- _____ Obtain lead shielding and prepare Chemistry Lab for analysis.
- _____ Ensure analytical instruments are standardized prior to use.
- _____ Ensure sufficient quantities of reagents are available; prepare as needed.
- _____ Conduct planning session with Chemistry and RP personnel involved in analysis to identify / define specific roles and responsibilities:
 - _____ A. Designate Chemistry personnel required to perform specific analyses.
 - _____ B. Determine respiratory equipment and protective clothing requirements.
 - _____ C. Use Breathing Air Cylinders and set-up Air Line Header for Lab if respiratory equipment is required.

**Enclosure 6.6
Post Accident Chemical Addition Checklist**

CSM 5.1
Page 1 of 2

NOTE: Do NOT use this Enclosure for documentation.

This is a time-critical task. Caustic addition must be initiated within 30 minutes of recirc mode operation.

Date: _____ Time: _____ Unit: _____

_____ Caustic addition requested.

_____ Initiate OSC Task Work Sheet (when appropriate)

Procedures / Lab Methods to be used:

_____	CP/1&2/A/2002/005	Post Accident Caustic Injection into the Low Pressure Injection System
_____	CP/3/A/2002/005	Post Accident Caustic Injection into the Low Pressure Injection System
_____	CP/0/B/2001/008	Chemical Safety Equipment & Spill Control Response
_____	CSM 5.2	Post Accident Procedure Use Guidelines

_____ Verify LPI System is in service and taking suction from the Reactor Building Emergency Sump.

_____ Obtain the following applicable RIA readings from the Data Acquisition or the Control Room. Refer to Enclosure 6.2 of CSM 5.2 for RIA information.

<u>RIA</u>	<u>Reading</u>	<u>RIA</u>	<u>Reading</u>
RIA-12	_____ mR/hr	1RIA-32-12	_____ CPM
3RIA-19	_____ mR/hr	3RIA-32-3	_____ CPM
1RIA-32-3	_____ CPM	3RIA-32-5	_____ CPM
1RIA-32-10	_____ CPM	RIA-57	_____ CPM
1RIA-32-11	_____ CPM	RIA-58	_____ CPM

_____ Notify RP, Operations Liaison, and OSC Coordinator of support needs.

_____ Determine number of Chemistry personnel required for addition:
required _____ (minimum of two)

Enclosure 6.6
Post Accident Chemical Addition Checklist

CSM 5.1
Page 2 of 2

- _____ Ensure assigned personnel have sufficient remaining exposure to complete assigned tasks.
Obtain Dose Extensions as required.

- _____ Time permitting, conduct planning session with Chemistry, RP, Operations, and
OSC personnel involved in addition to identify/define specific roles and
responsibilities:
 - _____ A. Designate Chemistry personnel to perform addition.
 - _____ B. Designate additional OSC personnel to transport caustic.
 - _____ C. Designate Chemistry or OSC personnel to support addition at the
RCZ/control point.
 - _____ D. Determine required respiratory equipment, protective clothing,
and any additional RP requirements.
 - _____ E. Determine required equipment to support addition (eg; radios,
chemical resistant suits, flash lights, etc.).
 - _____ F. Establish Low Dose Waiting Areas/control points (as required).
 - _____ G. Determine stay time(s) at caustic addition area (as required).
 - _____ H. Identify potential safety hazards to team members (eg; heat stress,
caustic spill control, caustic hazards, etc.).

- _____ Obtain equipment required to support addition.

- _____ Establish and maintain stay time log at the RCZ/control point (as required).

INFORMATION ONLY

Oconee Nuclear Station
Maintenance Directive 9.1
Approved *M. J. [Signature]*
Original Date 4/24/84
Revised Date 2/28/00
Prepared By Alan Greene
EP Review *M. J. [Signature]*
EP Review Date 2/28/2000

EMERGENCY PREPAREDNESS PLAN ACTIVATION

1.0 Purpose

The purpose of this directive is to provide maintenance coordination and interface with the Oconee Nuclear Site (ONS) Emergency Plan, and should be reviewed by Emergency Planning prior to approval by the responsible group.

2.0 Responsibility

Responsibilities of Maintenance personnel are described in the body of this directive.

UPON REVISION AND APPROVAL, A COPY OF THIS DIRECTIVE MUST BE FORWARDED TO EMERGENCY PLANNING WITHIN 3 WORKING DAYS.

3.0 Implementation

This directive explains the duties of various Maintenance personnel whenever the Emergency Plan is activated.

NOTE: Following are the primary and alternate locations of the Operational Support Center (OSC) and Technical Support Center (TSC).

OSC: Primary - OSC Room behind Unit 3 Control Room
Alternate- Room 316A, Oconee Office Building

TSC: Primary - TSC Room behind Unit 1 and 2 Control Room
Alternate- Room 316 in the Oconee Office Building

3.1 Normal Working Hours

3.1.1 Upon site assembly alarm, all Maintenance Group personnel will:

- a. Maintenance SPOC Personnel (teams and supervisors) report immediately to the Operational Support Center. Supervisors and team swipe badges and report accountability to their Maintenance Manager.
- b. All other Maintenance Personnel shall swipe badges and report immediately to their assembly area for accountability. Personnel should remain in their assembly areas until notified to set up TSC/OSC or secure from site assembly.

Maintenance personnel inside the protected area and not physically close to their reporting work area will go to the nearest telephone and call their supervisor immediately for accountability and swipe badges within 30 minutes. These individuals should either return to their assembly area or remain close to a phone or as instructed by their supervision. If outside the protected area call only as there are no card readers outside the protected area.

- c. Maintenance Supervisors will account for their on site personnel, whether accounted for or missing, and give accountability report to their Manager within eight (8) minutes after the site assembly alarm.
- d. Maintenance Managers will give their accountability reports to the Maintenance Superintendent's Administrative Specialist within twelve (12) minutes after site assembly begins.
- e. The Superintendent's Administrative Specialist will give accountability reports to the Security Shift Lieutenant within twenty (20) minutes after the site assembly alarm.

3.1.2 Activation of the Maintenance Emergency Response Organization:

NOTE: Site assembly will not always precede the activation of the OSC/TSC. Also, the OSC/TSC is not always activated after site assembly.

Upon announcement over the P.A. system to set up the Technical Support Center (TSC) and the Operational Support Center (OSC) the following Maintenance Personnel should respond as indicated below:

MAINTENANCE MANAGER

- a. Reports to the OSC.
- b. Keeps the OSC Coordinator up-to-date as to the activities of the Maintenance Group.
- c. Maintenance Manager in the OSC will secure additional manager support from I&E/Mechanical if conditions warrant.

MAINTENANCE SHIFT (12 hour) PERSONNEL

- a. I&E SPOC Team Supervisor
 - 1. Reports with team to the OSC.
Use RP/0/B/1000/25 to establish OSC)
 - 2. Swipe badges and report accountability to appropriate Manager.
 - 3. Sets up and checks out communication equipment (if announcement is made to set up TSC/OSC).
 - 4. Follows instructions for response from the Maintenance Manager.
- b. Mechanical Maintenance SPOC Team Supervisor
 - 1. Reports with team to the OSC.
 - 2. Mechanical Maintenance SPOC Supervisor and team swipe badges report accountability to appropriate Manager.
 - 3. Follows instructions for response from the Maintenance Manager.

3.1.3 Evacuation of Maintenance Personnel

Reference: N.S.D. 114 - Site Assembly/Site Evacuation

NOTE: Site Assembly will always precede a Station Evacuation.

3.1.3.1 The Offsite Communicator will initiate an evacuation with a PA announcement identifying (a) the applicable evacuation plan in effect see (NSD 114), (b) the Decontamination Center/Post Evacuation Assembly Location to be utilized, (c) and the use of PROFS (if applicable).

3.1.3.2 Personnel being evacuated should follow evacuation instructions and report to the identified locations. Further instructions will be provided by maintenance management.

3.1.3.3 Once the announcement to evacuate has been made, the Maintenance Manager(s) will determine the essential Maintenance personnel to retain on site. Non-essential personnel who are retained to assist in the recovery must receive approval from the Station Manager or his designee.

NOTE: All personnel designated as "essential" must appear on the Emergency Response Organization (ERO) List. Classifications/Definitions for E-1, 2, 3 denoted on site evacuation plans.

NOTE: All personnel designated as essential must meet respiratory requirements if an airborne condition exists. It will be the responsibility of Maintenance Management to ensure that the requirement is met.

- 3.1.3.4 When the determination of essential personnel is complete it will be provided to the Evacuation Coordinators for the Maintenance group. The Evacuation Coordinators are assigned as follows (reference Attachment #2):
- a. Maintenance Team (I&E) - One individual from Attachment #2.
 - b. Maintenance Team (Mechanical) - One individual from Attachment #2.
- 3.1.3.5 The Evacuation Coordinator for each group will ensure that assigned personnel are informed of their designation as being either essential or non-essential. All personnel designated as essential will remain on site in the event of a Station Evacuation. All personnel designated as non-essential will be directed to follow all evacuation instructions if a Station Evacuation is announced.
- 3.1.3.6 Maintenance Evacuation Coordinators will communicate specific work schedule instructions as required.
- 3.1.3.7 After receiving the information detailed in 3.1.3.2 all on-site non-essential Maintenance personnel will evacuate the site following the given evacuation instructions.
- 3.1.3.8 All on-site essential Maintenance personnel will be directed by the OSC in any further activities after receiving the information detailed in 3.1.3.2.
- 3.1.3.9 All off-site Maintenance personnel will be contacted by Maintenance Supervision with specific work schedule instructions.

3.2 Backshift, Holidays, Weekends

3.2.1 MAINTENANCE SHIFT PERSONNEL

a. I&E SPOC Team Supervisor

1. Reports with team to the OSC at Site Assembly Alarm or when announcement is made to set up OSC/TSC.
(Use RP/0/B/1000/25 to establish OSC)
2. I&E SPOC Supervisor and team swipes badges and reports accountability to Security Shift Lieutenant.
3. Sets up and checks out communication equipment.
(If announcement is made to set up TSC/OSC).
4. I&E SPOC Supervisor contacts Operations Shift Supervisor to make him aware when the OSC is established (I&E, MM, Chemistry, RP).
5. Determines from the Operations Shift Supervisor the emergency situation and responds as directed by Operations Shift Supervisor.
6. Serves as OSC Coordinator until relieved by Work Control.

b. Mechanical Maintenance SPOC Team Supervisor

1. Reports with team to the OSC at Site Assembly Alarm or when announcement is made to set up OSC/TSC.
2. Acts as OSC Coordinator if I&E SPOC Supervisor is not available and serves as OSC Coordinator until relieved by Work Control.
(Use RP/0/B/1000/25 to establish the OSC)
3. Swipe badges and reports accountability of Maintenance Technicians and Materials personnel) to Security Shift Lieutenant.
4. Follows instructions for response from the OSC Coordinator.

c. Maintenance Manager

1. Maintenance Manager will report to the OSC within 75 minutes of acknowledging call from the Community Alert Network. Maintenance Manager will take turnover from the SPOC supervisors and direct maintenance activities.
2. Maintenance Manager will callout additional manager support from I&E/Mechanical if conditions warrant.

3.2.2 Evacuation of Maintenance Personnel

- 3.2.2.1 Maintenance personnel on site will be identified essential or non-essential and evacuated per instructions from the OSC/TSC. The Maintenance Manager and/or SPOC supervisors will identify maintenance personnel as being essential or non-essential.

4.0 Attachments

- Attachment #1 - ESS and Tech Support/ Site Sponsor Contact list
- Attachment #2 - Maintenance Evacuation Coordinator List
- Attachment #3 - Fitness For Duty Information

ATTACHMENT #1

ESS ELECTRICAL CONTACT LIST

Breakers, Bus, Switchyards, Switchgear, Transformers, Generators, Excitation
Systems and Doble Teams

Resources

ESS Duty Pager 382-1125

Victor Sheets 382-3157 M-Thurs. Beeper 778-5976

Technical Support and Site Sponsors

Alan Greene ext. 3099 M-Thurs. Beeper 778-6173**

Gary "Radar" Edens ext. 3022 M-Thurs. Beeper 778-4341 **

** Contact Switchboard after normal hours.

ATTACHMENT #2

MAINTENANCE EVACUATION COORDINATOR LIST

<u>I&E Evacuation Coordinator:</u>	<u>Phone Extension</u>	<u>Beeper Number</u>
<u>PRIMARY:</u> - Terry Smith	Ext. 3672	778-6560
1st Alternate - Sammy Oates	Ext. 3404	778-5309
2nd Alternate - Richard Ledford	Ext. 3166	778-8802
 <u>Mechanical Evacuation Coordinator:</u>		
<u>PRIMARY:</u> - Dan Winchester	Ext. 3161	777-4382
1st Alternate - Donnie Shirley	Ext. 4260	778-6361
2nd Alternate - Jim Weir	Ext. 3256	778-2373

ATTACHMENT #3
FITNESS FOR DUTY INFORMATION

PERSONS AUTHORIZED TO CALL EMPLOYEES OUT MUST ASK THE FOLLOWING QUESTIONS:

1. Have you consumed alcohol in the last five (5) hours?*
2. What did you have?
3. How much did you have?
4. Can you perform your job unimpaired?
5. Can you drive?

* Employees who acknowledge consumption of alcohol within five (5) hours must be evaluated by supervision upon reporting to work. Evaluation may be by observation or breathalyzer.

If the answer to the first questions is "no", the other questions should not be asked.

These questions apply to ANYONE being called out to work in the protected area of a nuclear station regardless of position or whether his/her name appears on the "duty list".

Documentation of the phone call is not required per the Fitness-for-Duty "rule". However, if the call-out results in a questionable situation, you may want this information documented.

INFORMATION ONLY

Safety Services Emergency Response Procedure 2.1

Approval Tom Kelly

Date _____

Revised Date 3/14/00

EP Review Ray Waterman

OCONEE NUCLEAR SITE

SAFETY SERVICES

EMERGENCY RESPONSE PROCEDURE

1.0 Purpose

The purpose of this procedure is to provide coordination and interface with the ONS Emergency Plan, Safety Assurance Manual, RP/0/B/1000/16 (Medical Response) and applicable sections of the DPC Safety and Industrial Hygiene Compliance Manual. It is used to delineate the role of Safety in support of these plans. Upon revision, a control copy of this procedure must be forwarded to Emergency Planning within 3 working days of its approval.

2.0 References

- ONS Emergency Plan
- Safety Assurance Manual
- RP/0/B/1000/16, Medical Response
- Safety and Industrial Hygiene Compliance Manual
- DPC Safe Work Practices Manual
- NSD 114

3.0 Applicability

This procedure applies to the ONS Safety Team.

4.0 Description

This procedure describes the actions to be taken by the personnel of the Safety Section in response to certain emergency conditions including: Site Emergency Plan implementation (site assembly, TSC/OSC activation), fires, medical emergencies, chemical spills, asbestos releases, etc.

5.0 Procedure

5.1

Unusual Event

5.1.1

The Safety Assurance Manager or designee will notify the Safety Manager or Safety duty person of the event and the circumstances.

5.1.2

The Safety Manager or designee will inform the Safety staff and determine appropriate response.

5.2

Site Assembly/Alert, Site Area Emergency, General Emergency (Actuation of Emergency Response Organization)

5.2.1

Normal Duty Hours

- (A) All Safety personnel shall assemble in the Safety Office area. If unable to assemble within **10** minutes, attempt to contact the Safety Office by telephone or radio and report location and status. The alternate assembly location for the Safety personnel shall be the Safety Assurance Area.
- (B) Accountability of all Safety personnel shall be made within **15** minutes to the designated site assembly contact at extension 4065 (Sheila Smith). This call must be made within the designated time frame by the senior person at the assembly point and should include the names of any personnel who have not reported.
- (C) One Safety Team member (duty person) shall report to the OSC (see 5.2.3). Other personnel shall return to work, remain at their assembly point, or may be instructed to evacuate the site. Consideration should be given for establishing 24 hour OSC coverage.
- (D) If inside the Protected Area, swipe a card/badge reader. These are located at various areas throughout the plant.

5.2.2

Back Shift, holidays, weekends

- (A) If on site, report accountability directly to the Security Shift Supervisor at extension 5050. Report to the OSC (See 5.2.3).

- (B) The Safety Duty Person is notified by the pager system and responds to the OSC within 90 minutes.
- (C) If inside the Protected Area, swipe a card/badge reader. These are located at various areas throughout the plant.

5.2.3

Duties of Safety Personnel in the OSC.

- (A) Enter the OSC through the appropriate door, after frisking.
- (B) Upon arrival report to the OSC Coordinator, Ops Liaison, and Maintenance Manager. This is to alert them to your presence.
- (C) Remain aware of plant emergency action level(s) and general radiological conditions.
- (D) The OSC Safety member will provide safety/IH coverage, as needed, for recovery efforts including:
 - non radiological respirator clearance
 - confined space entry
 - work area monitoring after fire, chemical release, asbestos release, etc.
 - heat stress precautions/evaluations
 - chemical hazard information
 - personnel monitoring
 - prejob briefings

5.3

Medical Emergencies

5.3.1

The MERT responds to all medical emergencies per site procedure RP/0/B/1000/16, Medical Response.

5.3.2

Safety shall respond to the scene, if qualified, or provide support functions to MERT Command.

5.3.3

Safety Team Member shall make appropriate notifications per RP/0/B/1000/16 and Safety and IH Compliance Manual, Processes and Interpretations.

5.4

Fire Brigade Response

5.4.1

The ONS Fire Brigade responds to reported fires per the ONS Fire Plan.

5.4.2

Safety personnel will respond as FB Members, if qualified, or provide support functions upon FB Command requests.

NOTE: All personnel operating within the hazard area shall use appropriate protective equipment.

5.5

Hazardous Materials Emergencies

5.5.1

Response to releases of hazardous substances are handled in accordance with RP/0/B/1000/17.

5.5.2

If requested, Safety personnel will respond to the scene with appropriate monitoring equipment. For spill recovery efforts appropriate Safety personnel will provide technical information, personal protection recommendations and other needed assistance. All other Safety personnel should resume normal duties.

5.6

Asbestos Fiber Release Episodes

5.6.1

Safety personnel will respond to fiber release episodes with appropriate monitoring equipment. Technical information, personal protection recommendation and other assistance will be provided, as needed.