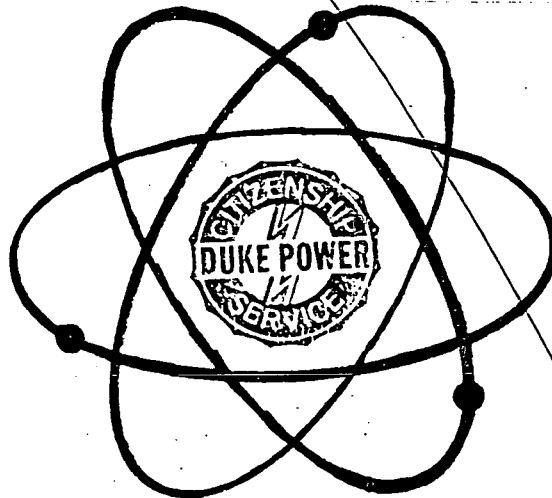


DUKE POWER COMPANY

OCONEE NUCLEAR STATION

EMERGENCY PLAN IMPLEMENTING PROCEDURES



APPROVED:

M. S. Tuckman
M. S. Tuckman, Station Manager

11/21/85
Date Approved

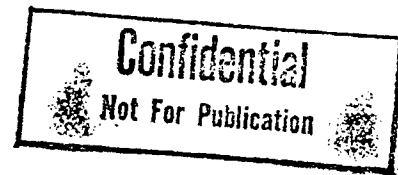
11/21/85
Effective Date

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EMERGENCY TELEPHONE NUMBERS

This enclosure provides a listing of telephone numbers for various personnel and agencies that may have a part in dealing with an emergency situation or providing other assistance as needed at Oconee Nuclear Station.

September 30, 1985

Revision 85-3

EMERGENCY TELEPHONE NUMBERS

This directory provides a listing of telephone numbers for various personnel and agencies that may have a part in dealing with an emergency situation or providing other assistance as needed at Oconee Nuclear Station.

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DUKE POWER COMPANY
OCONEE NUCLEAR STATION

NUMBER CODE FOR IDENTIFYING PERSONNEL/ACTIVITIES TO BE NOTIFIED

CODE

1. NUCLEAR REGULATORY COMMISSION by Red Phone within one hour.

See Section 14 for additional alternate numbers

2. UNIT COORDINATOR/OPERATIONS DUTY ENGINEER who will notify:

A. Superintendent of Operations

J. N. Pope, Office Ext. 1210

Home 882-3866

B. Station Manager/Emergency Coordinator (or alternate as listed in number 8)

M. S. Tuckman, Office Ext. 1211

Home (Pager 830) 882-8522

C. Compliance Engineer (Unusual Event Only) Ext. 1229

After Hours (Pager 807) Duty Roster

D. Nuclear Production Duty Engineer 704-373-5491

3. SOUTH CAROLINA WARNING POINT

Bureau of Radiological Health

Normal workdays (0800-1700) 758-5548

*Holidays, weekends, backshift 758-5531

*Alternate number (S.C. Emergency Preparedness Agency) . . 758-2826

*Note: Both after-hour numbers are answering services.

AFTER OCTOBER 29, 1985

South Carolina Highway Department *41
(See Page 8 for Selective Signaling Instructions)

Alternate number should Selective Signaling be out of service 758-2815

Alternate number (S.C. Emergency Preparedness Agency) 758-2826

4. COUNTY EMERGENCY PREPAREDNESS AGENCIES (*41 - Selective Signaling)

Oconee County Emergency Preparedness Duke Ringdown
(Eff. October 29, 1985 Selective Signaling 417

Alternate Number - 24 hour, Pager 251. 638-3097
Alternate Number - 24 hour, Pager 251. 638-3678

Pickens County Emergency Preparedness Duke Ringdown
(Eff. October 29, 1985) Selective Signaling 419

Alternate Number - (0830-1700) 878-7808
Alternate Number - 24 hour, Pager 77 878-2421

5. COUNTY SHERIFF'S DEPARTMENTS

Oconee County (24 hours) Duke Ringdown
(Eff. October 29, 1985) Selective Signaling 416

Alternate Number 683-3678

Pickens County (24 hours) Duke Ringdown
(Eff. Oct. 29, 1985) Selective Signaling 410

Alternate Number 878-2421
Alternate Number 878-1666
Alternate Number 878-3500

6. MEDICAL ASSISTANCE

Oconee Memorial Hospital Ambulance Service 882-4611

Oconee Memorial Hospital Switchboard/Supervisor or Nursing 882-3351

Additional Medical assistance may be provided through the
following institutions:

Greenville Memorial Hospital (Charge Nurse) 242-7139

Pickens County Ambulance Service 868-2373

Cannon Memorial Hospital/Supervisor of Nursing 878-4791
Alternate Number 859-0014

Easley Baptist Hospital/Supervisor of Nursing 859-6365

7. FIRE ASSISTANCE

Oconee County Rural Fire Protection Association 638-5846

Woods or Forest Fire (Oconee County, Oakway Tower) 972-3600

Woods or Forest Fire (Pickens County, Woodall Mt. Tower) 868-9056

8. TECHNICAL SUPPORT CENTER ACTIVATION (* Station Manager or Alternate)

If the Station Manager cannot be reached, go to the next Superintendent down the list until one is contacted . Alternates for Superintendents are listed for information only.

* Station Manager

M. S. Tuckman, Office	Ext. 1211
Home	882-8522
Pager	830

* Superintendent of Technical Services

T. S. Barr, Office	Ext. 1213
Home	261-8368

Alternates for Superintendent of Technical Services

R. A. Knoerr, Office	Ext. 1461
Home	882-6428

J. J. Sevic, Office	Ext. 1220
Home	882-1588

B. G. Davenport, Office	Ext. 1409
Home	226-9773

* Superintendent of Maintenance

T. B. Owen, Office	Ext. 1227
Home	882-1499

Alternates for Superintendent of Maintenance

W. W. Foster, Office	Ext. 1238
Home	882-7151

W. E. Martin, Office	Ext. 1216
Home	224-0513

D. E. Havice, Office	Ext. 1219
Home	878-4940

D. M. Thompson, Office	Ext. 1223
Home	261-8884

* Superintendent of Operations

J. N. Pope, Office Ext. 1210
Home 882-3866

Alternates for Superintendent of Operations

H. R. Lowery, Office Ext. 1277
Home 868-2551

G. A. Ridgeway, Office Ext. 1486
Home 847-9709

J. T. Campbell, Office Ext. 1487
Home 847-7953

N. F. Edwards, Office Ext. 1217
Home 638-6939

* Operations Duty Engineer Duty Roster

Superintendent of Integrated Scheduling
(Operational Support Center Coordinator)

L. V. Wilkie, Office Ext. 1804
Home 638-6250

Alternate for Superintendent of Integrated Scheduling

G. E. Rothenberger, Office Ext. 1463
Home 882-7054

Jeff S. Forbes, Office Ext. 1221
Home 868-2197

B. V. Earnhardt, Office Ext. 1188
Home 944-0681

Superintendent of Station Services

J. T. McIntosh, Office Ext. 1212
Home 654-6293

Alternate for Superintendent of Station Services

D. G. Austin, Office Ext. 1240
Home 878-2331

D. B. DuBose, Office Ext. 1218
Home 882-5115

T. K. McQuarrie, Office Ext. 1482
Home 638-2644

CRISIS MANAGEMENT CENTER

Recovery Managers

G. E. Vaughn, Office	80-2-2542
Home	(704)394-1092
M. D. McIntosh, Office	80-2-5941
Home	(704)377-0837
Lake	(704)483-3417
J. W. Hampton, Office.	80-3-831-2300
Home	(803)366-5300
T. L. McConnell, Office	80-3-875-4212
Home	(704)483-3881

9. WATER DEPARTMENTS

Should releases of radioactive effluent into Lake Keowee or Lake Hartwell potentially effect municipal water intakes or exceed technical specifications. Contact the appropriate authorities as indicated below:

Lake Keowee

Seneca, H. J. Balding, Office	882-8359
Home	882-1005

Lake Hartwell

City of Clemson

Mayor of Clemson, Office	654-2636
Home	654-3382

(If the mayor cannot be reached, call one of the following)

Clemson Administrator's Office	654-2636
Home	654-6263

Clemson Filter Plant (0700-1700)	654-1550
--	----------

Clemson University

President's Office	656-3413
Home	656-4611

Security - Police (24 hours)	656-2222
(If the President cannot be reached, call Clemson University Physical Plant (0800-1630)).	656-2186

<u>Anderson Water Works</u> (24 Hr. Number)	226-9676
---	----------

10. LAW ENFORCEMENT SUPPORT AGENCIES (24-hour numbers)

S. C. Highway Patrol (Greenville, S.C.) 235-7471
S. C. Enforcement Division (Columbia, S.C.) 758-6000
FBI (Columbia, S.C.) 254-3011

11. BOMB DISPOSAL

Explosives Ordinance Disposal Detachment Control (24-hour) 751-5126
(Fort Jackson, Columbia, S.C.)

12. RADIATION AND CONTAMINATION

REACTS, Department of Energy (Oak Ridge, Tennessee) . . . 615-482-2441
(24 hr. number - after 1700 ask for Pager number) . . . 241
DOE Emergency Radiological Monitoring Team (Aiken, S.C.) . 725-3333
(24 hrs.)

13. INGESTION PATHWAY

State of N.C. Warning Point

Primary - North Carolina Highway Patrol 919-733-3861
Alternate - N.C. Division of Emergency Management 919-733-3867

State of Georgia Warning Point

Primary - Georgia Emergency Prep. Agency 404-656-5500
Alternate - Georgia Dept. of Natural Resources 404-656-4300

14. NUCLEAR REGULATORY COMMISSION

NRC Operations Center (via Bethesda Central Office) . . . 301-951-0550
NRC Operations Center (via Silver Spring Central Office) . 301-427-4056
US NRC, Region II 404-221-4503
US NRC, Region II (Operations Center). 404-221-5238
US NRC, Oconee Resident Inspectors 882-5363
Ext. 1108
Jack Bryant (Home) 882-4527
Kent Sasser (Home) 882-1458

15. BUS TRANSPORTATION

Anderson Retail Office (24 hour number)	224-6363
(Contact John Holland, Pete Busby)	Ext. 291

16. NATIONAL WEATHER SERVICE - METEOROLOGICAL BACK-UP SOURCE

Greenville-Spartanburg Weather Service (24 hour) .	877-6998
--	----------

17. FEDERAL AERONAUTICS AGENCY

PRIVATE AIRCRAFT

Flight Standards District Office (0800-1700). . . .	765-5931
---	----------

Flight Service Station (After hours, weekends, holidays) .	879-2807
--	----------

MILITARY AIRCRAFT

Air Space Mgr. (Shaw AF Base)	668-3250
---	----------

Alternate	668-3083
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NOTE: EFFECTIVE OCTOBER 29, 1985

OPERATION OF THE SELECTIVE SIGNALING SYSTEM (SS)
FOR OCONEE NUCLEAR STATION

TO OPERATE THE SYSTEM:

1. Pick up the receiver - you will not hear a dial tone.
2. Dial the number for the party you wish to speak to.
If you desire more than one party, dial each individual number to tie them in.

GROUP CALL: 41*

The purpose of the Group Call is to reach all three required agencies for notification of an emergency at the station. The Group Call will do the following:

NORMAL WORKING DAY: Will reach the following agencies:
(0830-1700)

1. Oconee County LEC
2. Oconee County EPD
3. Pickens County LEC
4. Pickens County EPD
5. SC Warning Point (SC Highway Dept.)

BACKSHIFT, HOLIDAYS, WEEKENDS:

1. Oconee County LEC
2. Pickens County LEC
3. SC Warning Point (SC Highway Dept.)

CANCEL FUNCTION: Depress 41#

PROBLEM REPORTING: Contact Communications - Pine Knoll

80-3-234-1172

INDIVIDUAL LISTING NUMBERS

- | | | |
|-----|--------------------------------------|------|
| 1. | Oconee 1, 2 Control Room | 411 |
| 2. | Oconee 3 Control Room | 412 |
| 3. | Oconee TSC | 415 |
| 4. | Training Center - Recovery Manager | 413 |
| 5. | Training Center - Offsite Rad Coord. | 414 |
| 6. | Oconee County - EPD | 417 |
| 7. | Oconee County - LEC | 416 |
| 8. | Pickens County - EPD | 419. |
| 9. | Pickens County - LEC | 410 |
| 10. | State FEOC - Clemson Armory | 418 |
| 11. | WFBC To activate 42* | 420 |
| | To deactivate | 42# |
| 12. | State Warning Point - Columbia | 516 |

OCONEE NUCLEAR STATION EMERGENCY RADIO

The call letters WQC699 identify the Emergency Radio frequency. The following is a listing of radio locations, unit call letters, and identifiers. Use identifiers to begin a transmission and the call letters to close out the radio transmission. (For example: Oconee Nuclear Station Control Room to Pickens County Law Enforcement Center. Close out with WQC699 off.)

ONS Base Station Remotes

	<u>Location</u>	<u>Unit Call Letters</u>	<u>Identifier</u>
1.	Unit 1&2 Control Room	WQC699	Oconee Control Room
2.	Crisis Management Center	WQC699	Oconee CMC
3.	Technical Support Center	WQC699	Oconee TSC

Coded Squelch Radios

	<u>Location</u>	<u>Encode</u>	<u>Unit Call Letters</u>	<u>Identifier</u>
4.	Pickens LEC	35	KNBZ-965	Pickens LEC
	Pickens EOC	31	KNBE-487	Pickens EOC
	Pickens EPD	31	KNBE-480	Pickens EPD
5.	Oconee LEC	32	KNBE-488	Oconee LEC
6.	State FEOC - (Clemson)	34	KA-82139	State FEOC

ALL ABOVE RADIOS MAY BE ACTIVATED BY ENCODING NO. 30

Field Monitoring Teams

	<u>Location</u>	<u>Unit Call Letters</u>	<u>Identifier</u>
8.	Field Monitor Coordinator	KA82139	Leader
9.	Field Monitor Team	KA82139	Alpha
10.	Field Monitor Team	KA82139	Bravo
11.	Field Monitor Team	KA82139	Charlie
12.	Field Monitor Team	KA82139	Delta
13.	Field Monitor Team	KA82139	Echo
14.	Field Monitor Team	KA82139	Foxtrot

TO COMMUNICATE BETWEEN BASE STATION REMOTES (1, 2, 3), THE INTERCOM MUST BE USED! The following procedure must be used:

1. Push INTERCOM button and hold
2. Push MIKE button and hold
3. Send message (example, CMC to TSC)
4. Release both buttons to receive a response.

OCONEE NUCLEAR STATION
CRISIS COMMUNICATIONS DIRECTORY

The crisis directory is intended for use should the Oconee Emergency Plan require implementation. Both station and corporate level telephone numbers are provided. The station's emergency organization will operate from the Technical Support Center near the Units 1 and 2 Control Room. The corporate emergency organization will operate from the Crisis Management Center located in the Visitors Center and Oconee Training Center.

EMERGENCY FACILITY LOCATIONS

Technical Support Center - Control Rooms 1 and 2

Operational Support Center - Control Room 3

Crisis Management Center - Oconee Training Center

Alternate Location: Liberty Retail Office

Crisis News Center - Keowee-Toxaway Visitors Center

Alternate Location: Liberty Retail Office

OCONEE NUCLEAR STATION

TELEPHONE DIRECTORY

Seneca Lines	882-5363
(803)	882-5368
	882-5369
	882-5370
	882-5371
Easley Lines	859-0108
(803)	859-0113
	859-0116
Anderson Line	224-8376
(803)	
Six Mile Line	868-2717
(803)	
Dial Code	80 + 2 (Charlotte General Office)
(Micro-Wave)	80 + 3 + 831 (Catawba)
	80 + 3 + 875 (McGuire)
	0 Attendant (To access Bell Line)
	9 Seneca
	60 Easley
	61 Anderson
	63 Six Mile

OCONEE NUCLEAR STATION
CRISIS PHONE DIRECTORY
TECHNICAL SUPPORT CENTER

<u>POSITION/NAME</u>	<u>Telephone Number</u>	
	<u>Outside Line</u>	<u>882-5363 Station Number</u>
<u>EMERGENCY COORDINATION</u>		
Emergency Coordinator	882-7076	1211
Offsite Communicator	Ring-down	1244
(After October 29, 1985) Selective Signaling	415	
<u>Superintendent of Operations</u>		1210
Unit 1 Control Room.		1261, 1335
Unit 2 Control Room.		1321, 1209
Unit 3 Control Room.		1278, 1363
Shift Supervisor (Unit 1 & 2)		1271
(Unit 3)		1392
<u>Superintendent of Technical Services</u>		1213
Data Transmissions Coordinator		1409
Data Release (Unit 1 & 2).		1669, 1670
(Unit 3).		1669, 1837
Compliance		1229
<u>Offsite Dose Assessment</u>		
Dose Assessment Coordinator		1138
Data Line (HP) Model A		1538
Field Monitoring Coordinator		1103
Emergency Count Room (Visitors' Center) .		1763, 1764
Health Physics Status Assistant	HP Intercom	
CMC Dedicated Line		1207
<u>Superintendent of Maintenance</u>		1227
<u>Superintendent of Station Services</u>		1212
Clerical Support		1233
Telecopier		1869
Medical Response		1111
NRC Resident Inspector		1108

	<u>Telephone Number</u>
<u>Outside</u> <u>Line</u>	<u>882-5363</u> <u>Station</u> <u>Number</u>
<u>OPERATIONAL SUPPORT CENTER</u>	
(Support group consists of Health Physics, Chemistry, Maintenance, Safety, Operations)	
Operational Support Center Coordinator	1804
Mechanical Maintenance Engineer	1223
Mechanical Maintenance Supervisor	1113
I & E Engineer	1219
I & E Supervisor	1189
Transmissions	1139
Health Physics Support	1190
Station Health Physicist.	1234
Dose Control	1178
S & C Coordinator	1519
Support Function Coordinator.	1179
Chemistry Support	
Station Chemist	1220
Chemistry Supervisor	1775
Chemistry Technicians	1365
Medical Support	1365
OSC Communicator	1387
Telecopier	1387
OSC Status Clerk	1387
Operations Liason	1214
Unit #3 Operations Offices	1277 1172
Nuclear Equipment Operators (Unit 1 & 2 Emergencies)	1333
Nuclear Equipment Operators (Unit 3 Emergencies)	1388

OCONEE NUCLEAR STATION
CRISIS PHONE DIRECTORY
CRISIS MANAGEMENT CENTER

<u>POSITION/NAME</u>	<u>PRIVATE LINE</u>	<u>ONS SWITCHBOARD</u>
<u>RECOVERY MANAGER</u>		
State of S.C. (FEOC Line)	654-9367 or 654-9363	1713
(Duke Line)	882-9801	
<u>SCHEDULING/PLANNING</u>		
		1711
		1712
<u>NUCLEAR TECHNICAL SERVICES</u> 882-8148		
		1701
		1702
		1703
		1704
S.C. Bureau of Radiological Health (Duke Line)	882-9598	
(FEOC Line)	654-9371	
<u>OFFSITE RADIOLOGICAL MANAGER</u>		
		1705
		1706
<u>NUCLEAR ENGINEERING</u> 882-8650		
		1714
		1715
		1716
		1717
<u>DESIGN AND CONSTRUCTION SUPPORT.</u> 882-8650		
		1726
		1727
		1728
<u>ADMINISTRATION AND LOGISTICS</u> 882-9028		
		1707
		1708
		1709
		1710
<u>DATA COORDINATION</u>		
<u>TELECOPIER</u>		1718
.		1719
.		1700
<u>ADVISORY SUPPORT</u>		
<u>NUCLEAR REGULATORY COMMISSION</u>		
		1725
<u>BABCOCK & WILCOX (NSSS SUPPLIER)</u>		
		1714
		1715

OCONEE NUCLEAR STATION
CRISIS PHONE DIRECTORY
GENERAL OFFICE SUPPORT CENTER

SENIOR COMPANY OFFICER

(Contact with the Governor)

W. H. Owen (Primary) 704-373-4120

A. C. Thies (Alternate) 704-373-4249

WACHOVIA CENTER

RECOVERY MANAGER (Room 1010) (Speaker Phone) 704-373-7951
(Dedicated line to State Director) 704-373-5743

NRC 704-373-5270

SCHEDULING/PLANNING (Room 1010) 704-373-5731
704-373-7949

TECHNICAL SERVICES (Room 2390) 704-373-7790
704-373-3008

OFFSITE RADIOLOGICAL MANAGER (Room 1222) . . . 704-373-3141
704-373-7578
704-373-6150

NUCLEAR ENGINEERING STAFF (Room 1704) 704-373-5177
704-373-5235
704-373-5236

ADMINISTRATION AND LOGISTICS (Room 0925) 704-373-3121
704-373-3122
704-373-3123

NUCLEAR REGULATORY COMMISSION (Room 1488) 704-373-2689
704-373-7405
704-373-7406

ELECTRIC CENTER

DESIGN AND CONSTRUCTION SUPPORT (Room 32, 3rd Floor) 704-373-4662
704-373-5304
704-373-5305

CHARLOTTE SUPPLY BUILDING

CRISIS NEWS GROUP - DUKE (3rd Floor) 704-373-2328
704-373-5584
704-373-2812
704-373-5054
704-373-8323
704-373-8138

S.C. PUBLIC INFORMATION OFFICERS (Room 215)	704-372-5266
	704-372-9818*
	704-372-9824
	704-372-0970
	704-372-5299
	704-372-0515
	704-372-0525
	704-372-7130
NRC NEWS STAFF (Room 215)	704-372-9054
	704-372-9055
	704-372-8080
<u>FEMA PUBLIC INFORMATION OFFICES</u> (Room 215)	704-372-0520

*Dedicated line for State Center

OCONEE NUCLEAR STATION
CRISIS PHONE DIRECTORY
BACKUP CRISIS MANAGEMENT CENTER
LIBERTY RETAIL OFFICE, LIBERTY, S.C.

	<u>AREA CODE - 803</u> <u>Telephone Number</u>
<u>RECOVERY MANAGER</u>	843-2751
<u>SCHEDULING/PLANNING</u>	843-2752
<u>PUBLIC INFORMATION OFFICERS*</u>	843-2753
State of South Carolina	843-2754
Oconee County	843-2755
Pickens County	
<u>DESIGN AND CONSTRUCTION</u>	843-2701
	843-2702
<u>NUCLEAR ENGINEERING</u>	843-2703
	843-2704
<u>OFFSITE RADIOLOGICAL MANAGER</u>	843-2705
	843-2761
<u>ADMINISTRATION AND LOGISTICS</u>	843-2762
	843-2763
<u>NUCLEAR TECHNICAL SERVICES</u>	843-2764
	843-2765
<u>GOVERNMENT AGENCIES*</u>	843-6935
NRC	843-9014
State of South Carolina	
Oconee County	
Pickens County	

*NOTE: Call any one of the numbers listed to reach the desired representative.

OCONEE NUCLEAR STATION
CRISIS PHONE DIRECTORY
CRISIS NEWS CENTER
KEOWEE-TOXAWAY VISITORS' CENTER

<u>Position/Name</u>	<u>Private Line</u>	<u>Telephone Number</u> 882-5363 ONS <u>Switchboard</u>
<u>CRISIS NEWS DIRECTOR</u>	882-0601	1430
Mary Cartwright	882-5620	1431
		1720
		1721
		1722
		1723
		1724
<u>COMMERCIAL NEWS MEDIA</u>	882-6514	
(Active Numbers)	882-6515	
For drill purposes only	882-6519	
	882-6520	
	882-6522	
<u>COMMERCIAL NEWS MEDIA</u>	882-6529	
(Inactive Numbers)	882-6530	
Activated only during an	882-6533	
actual emergency	882-6535	
	882-6536	
	882-6538	
	882-6540	
	882-6541	
	882-6543	
	882-6544	
<u>NRC/STATE/COUNTY PUBLIC INFORMATION OFFICERS (PIO'S)</u>		
NRC	882-8094*	
Oconee County	882-4505*	
Pickens County	882-6744*	
	882-5537*	
State of S.C. (FECO Line)	654-9363	
(Duke Line)	882-6746	

*Note: NRC, Oconee County or Pickens County may be reached on any one of these phones.

EMERGENCY OPERATION CENTER

Pickens County

Primary Number 878-7808

EXECUTIVE GROUP*

Emergency Preparedness Director 878-7527
County Administrator 878-7838
County Council

OPERATIONS GROUP*

Law Enforcement 878-7494
Emergency Medical Service
Rescue 878-2577
Mental Health
Medical Service
Fire 878-7409
Public Works

ASSESSMENT*

Red Cross 855-1020
Emergency Welfare Service
Transportation 868-9207
Salvation Army
Supply and Procurement 878-7499
Damage Assessment
Public Information 878-7541
RADEF

COMMUNICATIONS 878-7808

PUBLIC INFORMATION OFFICER

CRISIS NEWS CENTER-ONS*

State of South Carolina 882-8094
Oconee County 882-4505
Pickens County 882-5537
NRC 882-6744

CRISIS NEWS CENTER-LIBERTY RETAIL OFFICE*

State of South Carolina 843-2753
Oconee County 843-2754
Pickens County 843-2755
NRC

*Call any one of the listed numbers to reach group desired.

EMERGENCY OPERATION CENTER

Oconee County

Primary Number (24-hour) 638-3097

OPERATIONS*

Fire Protection 638-2633

Police 638-2864
638-3002

Public Roads

Emergency Medical Services

Rescue Squads

ASSESSMENT*

Emergency Welfare Services 638-2177
638-2482

Radiological Defense

Damage Assessment

EXECUTIVE GROUP*

Supervisor/Chairman County Council 638-2540

EOC Director

Financial Officer

FNF Representative

PUBLIC INFORMATION OFFICER

CRISIS NEWS CENTER-ONS

State of South Carolina 882-8094
Oconee County 882-4505
Pickens County 882-5537
NRC 882-6744

CRISIS NEWS CENTER LIBERTY RETAIL OFFICE

State of South Carolina 843-2753
Oconee County 843-2754
Pickens County 843-2755
NRC

*Call any one of the listed numbers to reach group desired.

INFORMATION ONLY
DUKE POWER COMPANY
PROCEDURE PROCESS RECORD

CONTROL COPY

PREPARATION(2) STATION Oconee(3) PROCEDURE TITLE Emergency Classification(4) PREPARED BY Colman L. Jennings DATE 11/19/85(5) REVIEWED BY R L Sweigart DATE 11/19/85Cross-Disciplinary Review By _____ N/R RLS

(6) TEMPORARY APPROVAL (If Necessary)

By _____ (SRO) Date _____

By _____ Date _____

(7) APPROVED BY J A Bar DATE 11/20/85

(8) MISCELLANEOUS

Reviewed/Approved By _____ Date _____

Reviewed/Approved By _____ Date _____

(9) COMMENTS (For procedure reissue indicate whether additional changes, other than previously approved changes, are included.
Attach additional pages, if necessary.) ☐ ADDITIONAL CHANGES INCLUDED.

COMPLETION

(10) COMPARED WITH CONTROL COPY _____ DATE _____

(11) DATE(S) PERFORMED _____

(12) PROCEDURE COMPLETION VERIFICATION

- ☐ Yes ☐ N/A Check lists and/or blanks properly initialed, signed, dated or filled in N/A or N/R, as appropriate?
- ☐ Yes ☐ N/A Listed enclosures attached?
- ☐ Yes ☐ N/A Data sheets attached, completed, dated and signed?
- ☐ Yes ☐ N/A Charts, graphs, etc. attached and properly dated, identified and marked?
- ☐ Yes ☐ N/A Acceptance criteria met?

VERIFIED BY _____ DATE _____

(13) PROCEDURE COMPLETION APPROVED _____ DATE _____

(14) REMARKS (Attach additional pages, if necessary.)

DUKE POWER COMPANY
OCONEE NUCLEAR STATION
CLASSIFICATION OF EMERGENCY

1.0 Symptoms

1.1 Notification of Unusual Event

- 1.1.1 Events are in progress or have occurred which indicate a potential degradation of the level of safety of the plant.
- 1.1.2 No releases of radioactive material requiring offsite response or monitoring are expected unless further degradation of safety occurs.

1.2 Alert

- 1.2.1 Events are in progress or have occurred which involve an actual or potential substantial degradation of the level of safety of the plant.
- 1.2.2 Loss of one fission product barrier.
- 1.2.3 Any releases are expected to be limited to small fractions of the EPA Protection Action Guideline exposure levels.

1.3 Site Area Emergency

- 1.3.1 Events are in process or have occurred which involve actual or likely major failures of plant functions needed for protection of the public.
- 1.3.2 Loss of two fission product barriers.
- 1.3.3 Any releases are not expected to exceed EPA Protective Action Guideline exposure levels except near the site boundary.

1.4 General Emergency

- 1.4.1 Events are in process or have occurred which involve actual or imminent substantial core degradation or melting with potential for loss of containment integrity.
- 1.4.2 Loss of two fission product barriers and failure or imminent failure of the third barrier.
- 1.4.3 Releases can be reasonably expected to exceed EPA Protective Action Guideline exposure levels offsite for more than the immediate site area.

2.0 Immediate Actions

- 2.1 Compare actual plant conditions to the Emergency Action Level(s) listed in Enclosure 4.1 then declare the appropriate Emergency Class as indicated.
- 2.2 Initiate the Emergency Response Procedure (RP) applicable to the Emergency Class as follows:

Notification of Unusual Event	RP/0/B/1000/02
Alert	RP/0/B/1000/03
Site Area Emergency	RP/0/B/1000/04
General Emergency	RP/0/B/1000/05

3.0 Subsequent Actions

- 3.1 To escalate, de-escalate or close out the Emergency, consult the procedure indicated by the action level.

4.0 Enclosures

4.1 Emergency Action Level(s) for Emergency Classes

<u>Event No.</u>	<u>Page(s)</u>
4.1.1 Primary Coolant Leak	1 & 2
4.1.2 Fuel Damage	3
4.1.3 Steam System Failure	4
4.1.4 High Radiation/Radiological Effluents	5
4.1.5 Loss of Shutdown Function	7
4.1.6 Loss of Power	8
4.1.7 Fires and Security Actions	9
4.1.8 Spent Fuel Damage	10
4.1.9 Natural Disasters and Other Hazards	11
4.1.10 Other Abnormal Plant Conditions	12

ENCLOSURE 4.1.1
PRIMARY COOLANT LEAK

RP/0/B/1000/01

Page 1

UNUSUAL EVENT	ALERT	SITE AREA EMERGENCY	GENERAL EMERGENCY
<p>1. REACTOR SHUTDOWN REQUIRED BY RCS LEAKAGE TS 3.1.6 (ONE OF THE FOLLOWING)</p> <ul style="list-style-type: none"> • Primary leakage (unidentified) greater than 1 GPM evaluated as unsafe. • Total primary coolant leakage rate (identified) exceeds 10 GPM • Any leakage exists through RCS strength boundary (except S/G tubes) • OTSG tube leakage (Unit 1-.3 GPM Unit 2&3 - 1 GPM) <p>2. FAILURE OF A PRESSURIZER PORV TO CLOSE FOLLOWING REDUCTION OF APPLICABLE PRESSURE</p> <ul style="list-style-type: none"> • Acoustical monitor indication <p>WITH</p> <ul style="list-style-type: none"> • PZR level increasing with decreasing RCS pressure <p>AND</p> <ul style="list-style-type: none"> • QT temp and pressure alarms 	<p>1. PRIMARY COOLANT LEAK RATE GREATER THAN 50 GPM</p> <ul style="list-style-type: none"> • Mismatch between total makeup and total letdown (letdown plus controlled leakage) greater than 50 gpm with PZR not increasing. <p>2. RAPID GROSS FAILURE OF ONE OTSG TUBE WITH LOSS OF OFF-SITE POWER</p> <p>*NOTE: Leak greater than 10 GPM but less than 200 GPM</p> <ul style="list-style-type: none"> • RIA 40 ALERT alarm • RIA 16/17 HIGH alarm <p>AND</p> <ul style="list-style-type: none"> • RCS leak rate calculation <p>AND</p> <ul style="list-style-type: none"> • LDST level decreasing AND • Undervoltage - underfrequency on MFB 1 and MFB 2 <p>3. RAPID FAILURE OF STEAM GENERATOR TUBES.</p> <p>*NOTE: Leak greater than 50 GPM but less than makeup pump capacity.</p> <ul style="list-style-type: none"> • RIA 40 ALERT alarm • RIA 16/17 HIGH alarm <p>AND</p> <ul style="list-style-type: none"> • Rapidly decreasing PZR level AND • Rapid depressurization of RCS 	<p>1. KNOWN LOCA GREATER THAN MAKEUP PUMP CAPACITY</p> <p>PRIMARY LEAK</p> <ul style="list-style-type: none"> • HIGH RB pressure, HIGH RB sump, RIA 4 HIGH alarm, OR • Decrease in RCS pressure AND • Loss of subcooling margin OR • Full HPI and PZR level decreasing <p>P/S LEAK</p> <ul style="list-style-type: none"> • Rx Trip on LOW RCS PRESSURE AND • RCS PRESSURE decreasing uncontrollably with T_{avg} constant AND • RIA 40 ALERT Alarm • RIA 16/17 HIGH alarm AND • No significant increase in RB pressure and sump level <p>2. RAPID FAILURE OF STEAM GENERATOR TUBE LEAK (GREATER THAN 200 GPM) WITH LOSS OF OFFSITE POWER</p> <ul style="list-style-type: none"> • SAE #1 EALs for P/S leak AND • Undervoltage - Underfrequency alarms in the 230 KV switchyard. 	<p>1. SMALL AND LARGE LOCAS WITH FAILURE OF ECCS - LEADS TO CORE MELT.</p> <ul style="list-style-type: none"> • LOCA EALs-SAE #1 or SAE #2 <p>AND</p> <ul style="list-style-type: none"> • HPI system failure AND • LPI system failure <p>2. SMALL LOCA AND INITIALLY SUCCESSFUL ECCS WITH FAILURE OF RB HEAT REMOVAL SYSTEMS OVER SEVERAL HOURS LEADS TO CORE MELT AND FAILURE OF CONTAINMENT</p> <ul style="list-style-type: none"> • LOCA EALs in SAE #1 AND • RB temperature rising AND • RB spray system and cooling units fail to function.
<p>INITIAL NOTIFICATION REQUIREMENTS</p> <p>SEE EMERGENCY TELEPHONE DIRECTORY</p>	<p>NOTIFY 1,2,3,4</p>	<p>NOTIFY 1,2,3,4</p>	<p>NOTIFY 1,2,3,4</p>

ENCLOSURE 4.1.1
PRIMARY COOLANT LEAK

RP/0/B/1000/01

PAGE 2

UNUSUAL EVENT

ALERT

SITE AREA EMERGENCY

GENERAL EMERGENCY

4. STEAM LINE BREAK WITH GREATER
THAN 10 BUT LESS THAN 50 GPM
P/S LEAK RATE

P/S LEAK

- RIA 40 ALERT alarm
- RIA 16/17 HIGH alarm AND
- LDST level decreasing

WITH
EITHER

STEAM LINE BREAK INSIDE RB

- Unexpected increase in Rx
power AND
- Rapid decrease in T_{avg} , PZR
level, RCS pressure, Steam
pressure AND
- Increased RB pressure and
temperature

OR

STEAM LINE BREAK OUTSIDE RB

- Unexpected increase in Rx
power AND
- Rapid decrease in T_{avg} , PZR
level, RCS pressure, Steam
pressure AND
- Increased PR pressure and
temperature if steam line
break inside PR.

3. STEAM LINE BREAK WITH GREATER
THAN 50 GPM P/S LEAKAGE AND
INDICATION OF FUEL DAMAGE

- Rx trip on Low RCS pressure AND
- RCS pressure and T_{avg} decreasing
uncontrollably AND
- RIA 40 ALERT alarm
- RIA 16/17 HIGH alarm AND
- Chemistry sample analysis indi-
cates fuel damage - I-131 con-
centration greater than 70 $\mu\text{Ci/ml}$.

INITIAL NOTIFICATION
REQUIREMENTS; SEE EMERGENCY
TELEPHONE DIRECTORY

NOTIFY 1,2,3,4

NOTIFY 1,2,3,4

NOTIFY 1,2,3,4

NOTIFY 1,2,3,4

ENCLOSURE 4.1.2
FUEL DAMAGE

RP/0/B/1000/01

PAGE 3

UNUSUAL EVENT	ALERT	SITE AREA EMERGENCY	GENERAL EMERGENCY
<p>1. FUEL DAMAGE INDICATION</p> <p><u>HIGH ACTIVITY SAMPLE RESULTS</u></p> <ul style="list-style-type: none"> • Total activity of RCS due to half lives longer than 30 min exceeds 224 / E $\mu\text{Ci/ml}$ when the Rx is critical <p><u>OR</u></p> <ul style="list-style-type: none"> • I-131 concentration in the secondary side of the steam generator exceeds 1.4 $\mu\text{Ci/ml}$ <p><u>TOTAL FAILED FUEL EXCEEDS 1%</u></p> <ul style="list-style-type: none"> • I-131 concentration in the RCS is between 70 $\mu\text{Ci/ml}$ and 350 $\mu\text{Ci/ml}$ <p>2. ABNORMAL COOLANT TEMPERATURE AND/OR PRESSURE OR ABNORMAL FUEL TEMPERATURE OUTSIDE TS LIMITS</p> <ul style="list-style-type: none"> • An event has occurred which requires operation of the TSOR (Thermal Shock Operating Range). <p><u>OR</u></p> <ul style="list-style-type: none"> • Exceeding NDT limit <p><u>OR</u></p> <ul style="list-style-type: none"> • Shift Supervisor's judgement. 	<p>1. SEVERE LOSS OF FUEL CLADDING:</p> <p>*NOTE: Mechanical clad failure or flow-induced failure.</p> <ul style="list-style-type: none"> • RCS sample - 350 $\mu\text{Ci/ml}$ to 1770 $\mu\text{Ci/ml}$ - I-131 concentration <p><u>OR</u></p> <ul style="list-style-type: none"> • RCS sample shows an increase of 70 $\mu\text{Ci/ml}$ in a 30 minute period of time. <p><u>OR</u></p> <ul style="list-style-type: none"> • 5% total failed fuel rate 	<p>1. DEGRADED CORE WITH POSSIBLE LOSS OF COOLABLE GEOMETRY</p> <p><u>FLOW INDUCED - MECHANICAL</u></p> <ul style="list-style-type: none"> • RCS sample results indicate GAP activity <u>WITH</u> • I-131 concentration greater than 1770 $\mu\text{Ci/ml}$ <p><u>FUEL OVER-TEMPERATURE-</u></p> <ul style="list-style-type: none"> • Incore thermocouple readings greater than 700°F <u>AND</u> • Excess H² in RB or RCS sample <u>AND</u> • RCS sample results indicate I-131 concentration greater than 1300 $\mu\text{Ci/ml}$ <p><u>FUEL MELT CONDITIONS</u></p> <ul style="list-style-type: none"> • Incore thermocouple readings are above 2300°F <u>AND</u> • RCS sample results indicate I-131 concentration is greater than 1180 $\mu\text{Ci/ml}$. 	<p>1. LOSS OF 2 OF 3 FISSION PRODUCT PRODUCT BARRIERS WITH A POTENTIAL FOR LOSS OF 3RD BARRIER:</p> <p>Any one of the following are indications of the specific barrier lost:</p> <p><u>CLADDING FAILURE</u></p> <ul style="list-style-type: none"> • RCS sample results indicate GAP activity. <p><u>WITH</u></p> <ul style="list-style-type: none"> • I-131 concentration greater than 1180 $\mu\text{Ci/ml}$. <p><u>LOSS OF CONTAINMENT</u></p> <ul style="list-style-type: none"> • RB penetrations are not valved off or closed. • Steamline break upstream from MSSV and MSSV malfunction. • Steamline break or stop valve failure with S/G tube leak. • RB pressure increases and approaches 59 psig <u>WITH</u> loss of RB spray <u>OR</u> cooling units <p><u>LOSS OF PRIMARY COOLANT</u></p> <ul style="list-style-type: none"> • HIGH RB pressure • HIGH RB sump level • Loss of subcooling margin • RIA 40 ALERT alarm • RIA 16/17 HIGH alarm • RIA 4 HIGH alarm • RCS pressure decreasing uncontrollably with T_{avg} constant. • Pressurizer level decreasing

INITIAL NOTIFIATION REQUIREMENTS; SEE EMERGENCY TELEPHONE DIRECTORY

NOTIFY 1,2,3,4

NOTIFY 1,2,3,4

MPTOFU 1,2,3,4

NOTIFY 1,2,3,4

ENCLOSURE
STEAM SYSTEM FAILURE

RP/0/B/1000/01

PAGE 4

UNUSUAL EVENT	ALERT	SITE AREA EMERGENCY	GENERAL EMERGENCY
<p>1. RAPID DEPRESSURIZATION OF SECONDARY SIDE. (ANY ONE OF THE FOLLOWING)</p> <ul style="list-style-type: none"> • Observation/indication of steam line break which causes a rapid pressure decrease below relief valve and/or bypass valve setpoints <p><u>OR</u></p> <ul style="list-style-type: none"> • Excessive FDW flow to one or both OTSG <u>WITH</u> • Rapidly increasing level <p><u>OR</u></p> <ul style="list-style-type: none"> • Rapidly decreasing level 	<p>1. STEAMLINE BREAK WITH GREATER THAN 10 BUT LESS THAN 50 GPM P/S LEAK RATE.</p> <p><u>P/S LEAK</u></p> <ul style="list-style-type: none"> • RIA 40 ALERT alarm • RIA 16/17 HIGH alarm <u>AND</u> • LDST level decreasing <p>WITH EITHER</p> <p><u>STEAMLINE BREAK INSIDE RB</u></p> <ul style="list-style-type: none"> • Unexpected increase in Rx power <u>AND</u> • Rapid decrease in T_{avg}, PZR level, RCS pressure, Steam pressure <u>AND</u> • Increased RB pressure and temperature <p><u>OR</u></p> <p><u>STEAMLINE BREAK OUTSIDE RB</u></p> <ul style="list-style-type: none"> • Unexpected increase in Rx power <u>AND</u> • Rapid decrease in T_{avg}, PZR level, RCS pressure, Steam pressure <u>AND</u> • Increased PR pressure and temperature if steam line break inside PR. 	<p>1. STEAMLINE BREAK WITH GREATER THAN 50 GPM P/S LEAKAGE AND INDICATION OF FUEL DAMAGE.</p> <ul style="list-style-type: none"> • Rx trip on LOW RCS pressure or HIGH power <u>AND</u> • RCS pressure and T_{avg} decreasing uncontrollably <u>AND</u> • RIA 40 ALERT alarm • RIA 16/17 HIGH alarm <u>AND</u> • RCS sample results indicate fuel damage - I-131 concentration greater than 70 µCi/ml 	

INITIAL NOTIFICATION REQUIREMENTS: SEE EMERGENCY TELEPHONE DIRECTORY

NOTIFY 1,2,3,4

NOTIFY 1,2,3,4

NOTIFY 1,2,3,4

NOTIFY 1,2,3,4

ENCLOSURE 4.1.4
HIGH RADIATION/RADIOLOGICAL EFFLUENTS

RP/0/B/1000/01

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UNUSUAL EVENT	ALERT	SITE AREA EMERGENCY	GENERAL EMERGENCY
<p>1. RADIOLOGICAL EFFLUENT TS LIMITS EXCEEDED</p> <hr/> <p>*NOTE: TS for ONS gaseous release Shared 3-Unit System</p> <p><u>GASEOUS EFFLUENT</u></p> <ul style="list-style-type: none"> RIA-45 in valid alarm mode for more than 1 hour <u>AND</u> RIA-46 in valid alarm mode <p style="text-align: center;"><u>AND</u></p> <ul style="list-style-type: none"> Release rate calculations using vent sample analysis and flow rate data are in excess of TS limits per HP/0/B/1009/15. <p><u>LIQUID EFFLUENT</u></p> <ul style="list-style-type: none"> RIA-33/34 alarm setpoint established in discharge permit exceeded <u>AND</u> Flow not terminated <u>AND</u> Samples at restricted area boundary exceed limits of TS 3.9. 	<p>1. HIGH RADIATION LEVEL OR HIGH AIRBORNE CONTAMINATION:</p> <hr/> <ul style="list-style-type: none"> Step increase by a factor of 1000 times normal setpoint of RIA-32, 40, 35, 31, 41, 51, 53. <p>2. RADIOLOGICAL EFFLUENTS EXCEEDING 10 TIMES TS</p> <hr/> <p><u>GASEOUS EFFLUENTS</u></p> <ul style="list-style-type: none"> RIA-46 in valid alarm mode verified by RIA-45 <p style="text-align: center;"><u>AND</u></p> <ul style="list-style-type: none"> 10 x Release rate calculations using vent sample analysis and flow rate data are in excess of limits established by HP/0/B/1009/15. <p><u>LIQUID EFFLUENTS</u></p> <ul style="list-style-type: none"> 10 x RIA-33/34 alarm setpoint established in discharge permit <u>AND</u> Isolation valve fails to close and flow is not terminated <u>AND</u> Samples at restricted area boundary exceed 10 x limits of TS 3.9. 	<p>1. ACCIDENTAL RELEASE OF GASES AT THE SITE BOUNDARY UNDER METEOROLOGICAL CONDITIONS EXISTING AT THE TIME OF RELEASE.</p> <hr/> <p style="text-align: center;">UNIT 1 & 2</p> <ul style="list-style-type: none"> RIA 45/46 in valid alarm mode <p style="text-align: center;"><u>AND</u></p> <ul style="list-style-type: none"> RIA 56 HIGH alarm 10 mR/hr for 30 min. <p style="text-align: center;">UNIT 3</p> <ul style="list-style-type: none"> RIA 45 valid alarm mode <p style="text-align: center;"><u>AND</u></p> <ul style="list-style-type: none"> RIA 46 reading greater than 80 cpm for 30 minutes <p style="text-align: center;"><u>WITH</u></p> <ul style="list-style-type: none"> Dose calculations verifying dose rates at the site boundary greater than or equal to: <p style="text-align: center;">50 mR WB for 30 minutes</p> <p style="text-align: center;"><u>OR</u></p> <p style="text-align: center;">500 mR WB for 2 minutes</p>	<p>1. ACCIDENTAL RELEASE UNDER ACTUAL METEOROLOGICAL CONDITIONS AT SITE BOUNDARY:</p> <hr/> <p style="text-align: center;">UNIT 1 & 2</p> <ul style="list-style-type: none"> RIA 45/46 in valid alarm mode <p style="text-align: center;"><u>AND</u></p> <ul style="list-style-type: none"> RIA 56 ALERT alarm 2000 mR/hr <p style="text-align: center;">UNIT 3</p> <ul style="list-style-type: none"> RIA 45 valid alarm mode <p style="text-align: center;"><u>AND</u></p> <ul style="list-style-type: none"> RIA 46 reading 16,000 cpm <p style="text-align: center;"><u>WITH</u></p> <ul style="list-style-type: none"> Dose calculations verifying <p style="text-align: center;">1 R/hr WB</p> <p style="text-align: center;"><u>OR</u></p> <p style="text-align: center;">5 R/hr Thyroid</p>

INITIAL NOTIFICATION REQUIREMENTS; SEE EMERGENCY TELEPHONE DIRECTORY

NOTIFY 1,2,3,4

NOTIFY 1,2,3,4

NOTIFY 1,2,3,4

NOTIFY 1,2,3,4

ENCLOSURE 4.1.4
HIGH RADIATION/RADIOLOGICAL EFFLUENTS

RP/0/B/1000/01

PAGE 6

UNUSUAL EVENT

ALERT

SITE AREA EMERGENCY

GENERAL EMERGENCY

2. RADIATION LEVEL IN CONTAINMENT WITH
LEAK RATE APPROPRIATE FOR EXISTING
RB PRESSURE.

• RIA 57 or 58 HIGH alarm AND

• Dose rate inside RB coupled with
RB leak rate results in calculated
dose rate at site boundary greater
than 50 mR/hr WB for 30 minutes or
500 mR/hr WB for 2 minutes.

OR

• Radiation Monitoring teams measure
I-131 equivalent greater than:

250 mR/hr (9×10^{-8} μ Ci/ml) for
30 min.

OR

2500 mR/hr (9×10^{-7} μ Ci/ml) for
2 min. at the site boundary.

2. RADIATION LEVEL IN RB WITH
LEAK RATE APPROPRIATE FOR
EXISTING RB PRESSURE.

• RIA 57 or 58 ALERT alarm

AND

• Dose Projection equals

1 R/hr thyroid

OR

5 R/hr thyroid

AND

• Radiation Monitoring teams
verify readings offsite
past the Site Boundary.

INITIAL NOTIFICATION REQUIREMENTS; SEE EMERGENCY TELEPHONE DIRECTORY

NOTIFY 1,2,3,4

NOTIFY 1,2,3,4

NOTIFY 1,2,3,4

NOTIFY 1,2,3,4

ENCLOSURE 4.1.5
LOSS OF SHUTDOWN FUNCTIONS

RP/0/B/1000/01

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UNUSUAL EVENT

ALERT

SITE AREA EMERGENCY

GENERAL EMERGENCY

1. LOSS OF FUNCTIONS NEEDED
TO MAINTAIN PLANT COLD
SHUTDOWN:

- LPI system not functional

AND

- Inability to sustain either
natural or forced circulation.

2. FAILURE OF THE RPS TO INITIATE
AND COMPLETE A SCRAM WHICH
BRINGS THE RX SUBCRITICAL

- Rx remains critical after trip
AND
- Rods remain out.

1. LOSS OF FUNCTIONS NEEDED
FOR PLANT HOT SHUTDOWN:

- No HPI flow

AND

- No FDW flow and no EFDW flow

2. TRANSIENT REQUIRING OPERATION OF SD
SYSTEMS WITH FAILURE TO SCRAM.

ASSUMPTION: Continued power
generation and no core damage
immediately evident.

- 2 or more RPS channels trip AND
- Control rods do not drop into core
AND
- RCS sample results indicate I-131
concentration less than 70 μ Ci/ml.

1. TRANSIENT REQUIRING RX TRIP
WITH FAILURE TO SCRAM. ADDI-
TIONAL FAILURE OF CORE COOLING
AND ECCS WOULD LEAD TO CORE
MELT:

- RCS pressure greater than
2500 psig

AND

- RB pressure rapidly increasing

AND

- Rx remains critical

2. TRANSIENT INITIATED BY LOSS OF
FDW AND CONDENSATE SYSTEMS
FOLLOWED BY FAILURE OF EFDW FOR
EXTENDED PERIOD. CORE MELT
POSSIBLE IN SEVERAL HOURS.

- Loss of main condenser

AND

- No FDW OR EFDW flow

AND

- No HPI/LPI flow

INITIAL NOTIFICATION REQUIREMENTS; SEE EMERGENCY TELEPHONE DIRECTORY

NOTIFY 1,2,3,4

NOTIFY 1,2,3,4

NOTIFY 1,2,3,4

NOTIFY 1,2,3,4

ENCLOSURE 4.1.
LOSS OF POWER

RP/0/B/1000/01

PAGE 8

UNUSUAL EVENT	ALERT	SITE AREA EMERGENCY	GENERAL EMERGENCY
<p><u>LOSS OF OFFSITE POWER OR LOSS OF ONSITE AC POWER CAPABILITY</u></p> <ul style="list-style-type: none"> • Switchyard isolation <u>OR</u> • Underfrequency-undervoltage on MFB #1 or #2 <u>AND</u> • Keowee emergency start with transfer of auxiliaries to STBY buses. 	<p><u>1. LOSS OF OFFSITE POWER AND LOSS OF ALL ONSITE AC POWER</u></p> <p>*NOTE: Alert declared as soon as power outage occurs.</p> <ul style="list-style-type: none"> • Load rejection and Rx trip <u>AND</u> • SY isolation on undervoltage underfrequency <u>AND</u> • Loss of voltage on MFB 1 & 2 <u>AND</u> • Keowee emergency start with transfer of auxiliaries to STBY buses. <p><u>2. LOSS OF ALL ONSITE DC POWER</u></p> <p>*NOTE: Alert declared as soon as a loss of DC power occurs.</p> <ul style="list-style-type: none"> • Low voltage on all DC buses <u>OR</u> • DC buses unavailable to be closed. <p><u>3. RAPID GROSS FAILURE OF ONE OTSG TUBE WITH LOSS OF OFF-SITE POWER.</u></p> <p>*NOTE: Leak greater than 10 GPM but less than 200 GPM.</p> <ul style="list-style-type: none"> • RIA 40 ALERT alarm • RIA 16/17 HIGH alarm <u>AND</u> • LDST level decreasing <u>AND</u> • RCS leak rate calculation <u>AND</u> • Undervoltage - underfrequency on MFB 1 and MFB 2 	<p><u>1. LOSS OF OFFSITE POWER AND LOSS OF ONSITE AC POWER FOR MORE THAN 15 MINUTES</u></p> <ul style="list-style-type: none"> • Undervoltage on MFB 1 & 2 <u>AND</u> • Keowee Hydro fails to start either manual or automatic <p><u>2. LOSS OF ALL VITAL ONSITE DC POWER FOR MORE THAN 15 MINUTES.</u></p> <ul style="list-style-type: none"> • DC bus undervoltage alarms (all buses) <u>AND</u> • DC alarm on EPSL. <p><u>3. RAPID FAILURE OF STEAM GENERATOR TUBE LEAK (GREATER THAN 200 GPM) WITH LOSS OF OFFSITE POWER.</u></p> <ul style="list-style-type: none"> • Rx trip on LOW RCS PRESSURE <u>AND</u> • RCS PRESSURE decreasing uncontrollably with T_{avg} constant <u>AND</u> • RIA 40 ALERT alarm • RIA 16/17 HIGH alarm <u>AND</u> • No significant increase in RB pressure and sump level <u>AND</u> • Undervoltage-underfrequency alarms in the 230 KV switchyard. 	<p><u>1. FAILURE OF OFFSITE AND ONSITE POWER ALONG WITH TOTAL LOSS OF EFDW MAKE-UP CAPABILITY FOR SEVERAL HOURS.</u></p> <ul style="list-style-type: none"> • Undervoltage on MFB 1 & 2 alarms for greater than 2 hours <u>AND</u> • Keowee Hydro fails to start (either manual or automatic) <u>AND</u> • EFDW pumps fail to start. <p><u>2. SMALL AND LARGE LOCAS WITH FAILURE OF ECCS - LEADS TO CORE MELT.</u></p> <ul style="list-style-type: none"> • LOCA EALS-SAE #1 or SAE #2 <u>AND</u> • HPI system failure <u>AND</u> • LPI system failure

INITIAL NOTIFICATION
REQUIREMENTS; SEE EMERGENCY
TELEPHONE DIRECTORY

NOTIFY 1,2,3,4

NOTIFY 1,2,3,4

NOTIFY 1,2,3,4

NOTIFY 1,2,3,4

ENCLOSURE 4.1.7
FIRES AND SECURITY ACTIONS

RP/0/B/1000/01

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UNUSUAL EVENT	ALERT	SITE AREA EMERGENCY	GENERAL EMERGENCY
<p>1. FIRE WITHIN THE PLANT LASTING MORE THAN 10 MINUTES.</p> <hr/> <p>NOTE: Within the plant means: Aux Bldg, TB, RB, Keowee Hydro</p> <ul style="list-style-type: none"> • Efforts to extinguish a fire within the plant lasts longer than 10 minutes. <p>2. SECURITY THREAT OR ATTEMPTED ENTRY OR ATTEMPTED SABOTAGE. (NOTE*)</p> <hr/> <p>One of the following:</p> <ul style="list-style-type: none"> • Bomb Threat/Extortion • Discovery of bomb within the site boundary • Civil disturbance (hostile) • Intrusion/Attempted Intrusion (Protected area) • Hostage situation <p>NOTE*: RP/0/B/1000/07 shall be used in conjunction with all security-related emergency classifications.</p>	<p>1. FIRE POTENTIALLY AFFECTING SAFETY SYSTEMS.</p> <hr/> <ul style="list-style-type: none"> • Fire alarm in vital areas and visual observation of fires affecting safety related systems <u>AND</u> • Shift Supervisor's judgement <p>2. ONGOING SECURITY COMPROMISE (NOTE*)</p> <hr/> <p>One of the following:</p> <ul style="list-style-type: none"> • Adversaries commandeer an area of the plant but not control over the SD capability. • Discovery of breached barrier caused by intrusion or sabotage in the vital area. • Discovery of bomb in the protected area. • Adversaries commandeer the CAS <u>OR</u> SAS Security area. 	<p>1. FIRE COMPROMISING THE FUNCTIONS OF SAFETY SYSTEMS.</p> <hr/> <ul style="list-style-type: none"> • Observation of a fire causing the loss of redundant safety system trains or functions. <p>2. IMMINENT LOSS OF PHYSICAL CONTROL OF THE PLANT (NOTE*)</p> <hr/> <p>One of the following:</p> <ul style="list-style-type: none"> • Physical attack resulting in imminent occupancy of the CR, AUX SD panels or other vital areas as determined by the Emergency Coordinator. • Discovery of bomb in the vital area. • Adversaries commandeer the CAS <u>AND</u> SAS Security areas. 	<p>1. ANY MAJOR INTERNAL OR EXTERNAL EVENTS WHICH COULD CAUSE MASSIVE COMMON DAMAGE TO PLANT.</p> <hr/> <ul style="list-style-type: none"> • Visual observation of fires <u>AND</u> • Shift Supervisor's judgement <p>2. LOSS OF PHYSICAL CONTROL OF THE PLANT (NOTE*)</p> <hr/> <ul style="list-style-type: none"> • Physical attack resulting in unauthorized personnel occupying the CR or any other vital areas as determined by the Emergency Coordinator.

INITIAL NOTIFICATION REQUIREMENTS; SEE EMERGENCY TELEPHONE DIRECTORY

NOTIFY 1,2,3,4

NOTIFY 1,2,3,4

NOTIFY 1,2,3,4

NOTIFY 1,2,3,4

ENCLOSURE 4.1
SPENT FUEL DAMAGE

RP/0/B/1000/01

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UNUSUAL EVENT

ALERT

SITE AREA EMERGENCY

GENERAL EMERGENCY

1. FUEL DAMAGE ACCIDENT WITH
RELEASE OF RADIOACTIVITY TO:

CONTAINMENT

- RIA 2,3,4, valid ALERT alarm

AND

- RB Equipment Hatch open

FUEL-HANDLING BUILDING

- RIA 6 ALERT alarm AND
- RIA 41 HIGH alarm AND
- RIA 46 in valid alarm mode
verified by RIA 45

AND

- Release rate calculations
using vent sample analysis
and flow rate data are in
excess of limits established
by RP/0/B/1009/15.

1. MAJOR DAMAGE TO SPENT FUEL:
DAMAGE MECHANISM IS:

- Large object damages fuel OR

- Water loss below fuel level

IN

CONTAINMENT

- RIA 2,3,4, 49 HIGH alarm with
- RIA 57/58 HIGH alarm AND
- Dose rate inside RB coupled with
RB leak rate results in calculated
dose rate at Site boundary greater
than:

50 mR/hr WB for 30 minutes

OR

500 mR/hr WB for 2 minutes

FUEL HANDLING BUILDING

- RIA 6 HIGH alarm OR
- RIA 41 ALERT alarm AND
- RIA 45 in valid alarm mode

AND

- RIA 46 reading greater than 80 cpm
for 30 minutes

WITH

- Dose calculations verifying dose
rates at the site boundary
greater than or equal to:

50 mR/hr WB for 30 minutes

500 mR/hr WB for 2 minutes

INITIAL NOTIFICATION REQUIREMENTS; SEE EMERGENCY
TELEPHONE DIRECTORY

NOTIFY 1,2,3,4

NOTIFY 1,2,3,4

NOTIFY 1,2,3,4

NOTIFY 1,2,3,4

ENCLOSURE 4.1.9
NATURAL DISASTERS AND OTHER HAZARDS

RP/0/B/1000/01

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UNUSUAL EVENT	ALERT	SITE AREA EMERGENCY	GENERAL EMERGENCY
1. EARTHQUAKE FELT IN PLANT OR DETECTED	1. DBE \geq .05g	PLANT NOT IN COLD SHUTDOWN:	1. ANY MAJOR INTERNAL OR EXTERNAL EVENTS (i.e., FIRES, EARTHQUAKES SUBSTANTIALLY BEYOND DESIGN LEVELS) WHICH COULD CAUSE MASSIVE COMMON DAMAGE TO PLANT SYSTEMS.
2. LAKE LEVEL (Keowee)	2. TORNADO STRIKING FACILITY	1. MHE $>$.10g (Class 1 structure founded on bedrock)	
• low $<$ 775 ft.	3. AIRCRAFT CRASH ON FACILITY	MHE $>$.15 g (structures founded on overburden)	
3. ANY TORNADO WITHIN THE SITE BOUNDARY.	4. MISSILE IMPACT ON FACILITY	2. DAMAGE FROM TORNADO, MISSILE OR EXPLOSION, AIRCRAFT CRASH CAUSING INABILITY TO ESTABLISH HOT SHUTDOWN:	
4. AIRCRAFT CRASH ONSITE OR UNUSUAL AIRCRAFT ACTIVITY OVER SITE.	5. EXPLOSION DAMAGE TO FACILITY AFFECTING PLANT OPERATION	• No HPI injection	
5. EXPLOSION WITHIN THE SITE BOUNDARY.	6. UNCONTROLLED ENTRY OF TOXIC OR FLAMMABLE GAS INTO FACILITY AFFECTING SAFE OPERATION OF PLANT	<u>AND</u>	
6. TOXIC OR FLAMMABLE GAS RELEASE WITHIN THE SITE BOUNDARY	7. TURBINE ROTATING COMPONENT FAILURE CAUSING PENETRATION OF TURBINE CASING.	• No FDW flow and no EDFW flow	
7. TURBINE ROTATING COMPONENT FAILURE CAUSING RAPID PLANT SD.		3. ENTRY OF CONTROLLED TOXIC OR FLAMMABLE GASES INTO CR, CABLE SPREADING ROOMS, RB, SWITCHGEAR ROOM, AUX. SD PANELS AFFECTING SAFE OPERATION OF PLANT.	

INITIAL NOTIFICATION REQUIREMENTS; SEE EMERGENCY TELEPHONE DIRECTORY

NOTIFY 1,2,3,4

NOTIFY 1,2,3,4

NOTIFY 1,2,3,4

NOTIFY 1,2,3,4

ENCLOSURE 4.1.10
OTHER ABNORMAL PLANT CONDITIONS

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UNUSUAL EVENT	ALERT	SITE AREA EMERGENCY	GENERAL EMERGENCY
<p>1. ECCS INITIATED:</p> <hr/> <ul style="list-style-type: none"> • 1 or more ES channels actuated <u>WITH</u> • Flow indicated in A or B injection header (LPI or HPI) on valid RCS LOW pressure <p><u>OR</u></p> <ul style="list-style-type: none"> • Valid RB HIGH pressure signal. <p>2. LOSS OF CONTAINMENT INTEGRITY REQUIRING SD BY TS.</p> <hr/> <ul style="list-style-type: none"> • Limits as established in TS 3.6 exceeded. <p>3. LOSS OF ES FEATURE OR FIRE PROTECTION SYSTEM FUNCTION REQUIRING SD BY TS.</p> <hr/> <p>EX: Malfunction, Personnel Error, Procedural Inadequacy.</p> <ul style="list-style-type: none"> • ES System found inoperable (TS 3.3) <p><u>OR</u></p> <ul style="list-style-type: none"> • Fire suppression water system found inoperable (include Keowee Hydro) TS 3.17 	<p>1. OTHER PLANT CONDITIONS THAT WARRANT PRECAUTIONARY ACTIVATION OF THE TSC AND PLACING THE CMC AND OTHER KEY PERSONNEL ON STANDBY.</p> <hr/> <ul style="list-style-type: none"> • Emergency Coordinator judgement 	<p>1. OTHER PLANT CONDITIONS EXIST THAT WARRANT ACTIVATION OF THE TSC AND CMC.</p> <hr/> <ul style="list-style-type: none"> • Emergency Coordinator judgement 	<p>1. OTHER PLANT CONDITIONS EXIST FROM WHATEVER SOURCE THAT MAKE RELEASE OF LARGE AMOUNTS OF RADIOACTIVITY IN A SHORT TIME PERIOD POSSIBLE</p> <hr/> <ul style="list-style-type: none"> • Any core melt situation

INITIAL NOTIFICATION REQUIREMENTS; SEE EMERGENCY TELEPHONE DIRECTORY

NOTIFY 1,2,3,4

NOTIFY 1,2,3,4

NOTIFY 1,2,3,4

NOTIFY 1,2,3,4

ENCLOSURE 4.1.10
OTHER ABNORMAL PLANT CONDITIONS

UNUSUAL EVENT

ALERT

SITE AREA EMERGENCY

GENERAL EMERGENCY

4. TREATMENT OF PERSONNEL AT OFFSITE
HOSPITAL

Any one of the following:

- Decontamination efforts fail to reduce external contamination below 150 cpm

AND

Health Physics determines that radiological controls are required for offsite medical treatment.

- Internal contamination requiring medical assessment/treatment
- Irradiation requiring medical treatment/assessment.

5. SIGNIFICANT LOSS OF ASSESSMENT
OR COMMUNICATION CAPABILITY

- Loss of sub-cooling margin per TS 3.1.12 requiring shutdown.
- Loss of ONS communications capability to all offsite agencies.
- Most or all alarms lost in CR for more than 15 minutes.

INITIAL NOTIFICATION REQUIREMENTS; SEE EMERGENCY TELEPHONE DIRECTORY

NOTIFY 1,2,3,4

NOTIFY 1,2,3,4

NOTIFY 1,2,3,4

NOTIFY 1,2,3,4

CONTROL COPY

Form SPD-1002-1

DUKE POWER COMPANY
PROCEDURE PREPARATION
PROCESS RECORD

(1) ID No: RP/O/B/1000/09
Change(s) 0 to
0 Incorporated

- (2) STATION: OCONEE
- (3) PROCEDURE TITLE: PROCEDURE FOR SITE ASSEMBLY

(4) PREPARED BY: Boleman G Jennings DATE: 4/22/85

(5) REVIEWED BY: R.T.B. DATE: 4/23/85

Cross-Disciplinary Review By: RL Swingert N/R: 4-29-85

- (6) TEMPORARY APPROVAL (IF NECESSARY):

By: _____ (SRO) Date: _____

By: _____ Date: _____

(7) APPROVED BY: J. B. Ban Date: 4/30/85

- (8) MISCELLANEOUS:

Reviewed/Approved By: _____ Date: _____

Reviewed/Approved By: _____ Date: _____

DUKE POWER COMPANY
OCONEE NUCLEAR STATION
PROCEDURE FOR SITE ASSEMBLY

1.0 SYMPTOMS

- 1.1 A test of response time and procedures employed in completing an accounting of onsite personnel.
- 1.2 A station incident occurs and:
 - 1.2.1 The Technical Support Center is required to be established.
 - 1.2.2 Portions of the protected area may require evacuation or a station evacuation may be required.

2.0 IMMEDIATE ACTIONS

- 2.1 Action Plan for Emergency Coordinator (Enclosure 4.1)
- 2.2 Action Plan for Security Shift Lieutenant (Enclosure 4.2)
- 2.3 Personnel Assembly Signal (warble sound) is made over the Public Address System from Control Room 1&2.
- 2.4 Announcements are made over the Public Address System. (See Enclosure 4.3)
- 2.5 The alarm and announcements shall be continued for a duration long enough to ensure all onsite personnel are aware of the Site Assembly and are responding. (At least 6 alarms and announcements over a 15 min. period).

3.0 SUBSEQUENT ACTIONS

- 3.1 Action Plan for Onsite Personnel (Enclosure 4.4)
- 3.2 When personnel accountability has been completed following a Site Assembly, one of the following will occur.
 - 3.2.1 If the requirement for an assembly no longer exists, a request to return to normal duties will be given.

- 3.2.2 Plant conditions may require evacuation of the station. Consult procedure RP/0/B/1000/10.

4.0 ENCLOSURES

- 4.1 Action Plan (Emergency Coordinator)
- 4.2 Action Plan for Security Shift Lieutenant
- 4.3 Public Address Announcements
- 4.4 Action Plan for Onsite Personnel
- 4.5 Site Assembly Locations

DUKE POWER COMPANY
OCONEE NUCLEAR STATION

ACTION PLAN (EMERGENCY COORDINATOR)

- _____ 4.1.1 Alert Security Shift Lieutenant that a Site Assembly will be initiated.
- _____ 4.1.2 Direct necessary actions to account for any missing personnel.
 - 4.1.2.1 MERT Team will be utilized for this purpose.
- _____ 4.1.3 Examine the radiation/contamination levels established in RP/0/B/1000/10 to determine the classes of personnel that may need to be evacuated.
- _____ 4.1.4 If the requirements for an assembly no longer exist, return the station to normal duties.

DUKE POWER COMPANY
OCONEE NUCLEAR STATION

ACTION PLAN FOR SECURITY SHIFT LIEUTENANT

- _____ 4.2.1 Contact Visitors Center, Keowee Hydro and Technical Training Center to make them aware of Site Assembly.
- _____ 4.2.2 Initiate a patrol of the general station areas within station boundaries, both inside and outside of the restricted area, to assure that personnel in remote and noise restrictive areas are aware of the Site Assembly requirement.
- _____ 4.2.3 Restrict traffic in and out of the station gates during Site Assembly.

NOTE: SHOULD SITE ASSEMBLY BE INITIATED DURING HIGH TRAFFIC INGRESS AND EGRESS, TRAFFIC FLOW WILL NOT BE RESTRICTED.

- _____ 4.2.4 Receive Accountability reports from all groups. Make interim call to Emergency Coordinator to make him aware of the Site Assembly Status.
- _____ 4.2.5 Report accountability to the Emergency Coordinator within 30 minutes of the time the assembly was initiated. Report the name(s) of any missing person(s).

NOTE*: Numbers are not important. Report names of all unaccounted personnel.

- _____ 4.2.6 Coordinate a search and rescue effort if directed.
 - 4.2.6.1 Utilize the MERT Team for this purpose.
- _____ 4.2.7 Contact Visitors Center, Keowee Hydro and Technical Training Center to make them aware of Site Assembly completion.
- _____ 4.2.8 Coordinate evacuation if so instructed.

DUKE POWER COMPANY
OCONEE NUCLEAR STATION

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

ANNOUNCEMENT #1

"THIS IS A SITE ASSEMBLY. THIS IS A SITE ASSEMBLY."
ALL VISITORS ARE TO REPORT TO THE RECEPTIONIST LOBBY.
ALL PERMANENTLY BADGED PERSONNEL SHALL REPORT TO THE
AREA DESIGNATED ON THE BACK OF YOUR SECURITY BADGE.
ALL OTHER PERSONNEL NOT PRESENTLY WEARING SECURITY
BADGES SHALL REPORT TO YOUR SUPERVISOR.

NOTE: IF ANY PARTICULAR AREA OF THE PLANT IS FOUND TO BE
RADIOLOGICALLY UNSAFE DURING AN EMERGENCY, AND A SITE
ASSEMBLY IS HELD, WARNINGS SHOULD BE SOUNDED THROUGH
THE PUBLIC ADDRESS SYSTEM ADVISING THE "SAFE" CORRIDORS
TO USE.

ANNOUNCEMENT #2

NOTE: MAKE THIS ANNOUNCEMENT IF THE TECHNICAL SUPPORT CENTER
AND OPERATIONAL SUPPORT CENTERS ARE TO BE ACTIVATED.

"ACTIVATE THE TECHNICAL SUPPORT CENTER.
ACTIVATE THE OPERATIONAL SUPPORT CENTER."

DUKE POWER COMPANY
OCONEE NUCLEAR STATION

ACTION PLAN FOR ONSITE PERSONNEL IN RESPONDING TO A SITE ASSEMBLY ALARM.

- 4.4.1 Each person (except those noted in 4.4.2) shall assemble with their supervisor. Assembly points for personnel onsite at Oconee Nuclear Station are identified in Enclosure 4.5. Additionally, these locations are on the back of the security badge for those personnel inside security.
- 4.4.2 Persons working in Radiation Control Areas in protective clothing should leave their work areas and go to the appropriate change room. In the change room, they should contact the appropriate persons as designated by 4.4.3 for personnel accountability reporting. Judgement should be used concerning the advisability of changing clothes and reporting to normal assembly areas.

NOTE: IN CASE OF A REACTOR BUILDING EVACUATION ALARM, THE REPORTING REQUIREMENTS IN 4.4.3 APPLY.

4.4.3 0800-1630 (Monday-Friday normal working hours)

Each supervisor shall be responsible for accounting for all personnel reporting to him. EACH REPORTING SUPERVISOR IS TO REPORT NAME, CREW/UNIT/SECTION AND THE NAME(S) OF ANY UNACCOUNTED PERSON(S). Station Superintendents and the Supervisors of various organizations working at Oconee (SSD, Transmissions, QA, Visitors Center, Keowee-Hydro, SMS, and B&W) shall make an accountability report to the SECURITY SHIFT LIEUTENANT for their areas of accountability.

NOTE: COMPLETION OF STATION ACCOUNTABILITY SHALL BE MADE WITHIN 30 MINUTES. SUPERVISORS SHOULD REPORT THEIR ACCOUNTABILITY WITHIN 8 TO 10 MINUTES. SUPERINTENDENTS SHALL REPORT FOR THEIR GROUP AND GIVE THE NAMES OF ANY PERSONS NOT ACCOUNTED FOR WITHIN 20 MINUTES.

After hours, weekends, holidays

Each supervisor shall be responsible for accounting for all personnel reporting to him. EACH REPORTING SUPERVISOR IS TO REPORT NAME, CREW/UNIT/SECTION AND THE NAME(S) OF ANY UNACCOUNTED PERSON(S). Supervisors shall report accountability to the SECURITY SHIFT LIEUTENANT.

DUKE POWER COMPANY
OCONEE NUCLEAR STATION
SITE ASSEMBLY LOCATIONS

DUKE OCONEE NUCLEAR STATION PERSONNEL

<u>Section</u>	<u>Assembly Point</u>
Manager's Group:	
Station Manager/Superintendents: and Assigned Clerks	Respective Offices
Station Services:	
Administrative Services Training/Safety Contract Services	Administrative Offices Training Office Contract Services' Office
Maintenance:	
I&E Engineers I&E Shifts A,B,C,D,E (On-Duty) I&E Supervisors & Technicians Mech. Maintenance Shifts A,B,C,D,E (On-Duty) Mechanical Maintenance Supervisors & Technicians Mechanical Maintenance Engineers Planning & Scheduling Materials Maintenance Mgt. Support E.T.Q.S.	I&E Engineers' Offices Operational Support C I&E Shops Turbine Buil Operational Support Cent. Maintenance Shop Mechanical Maintenance Engineers' Offices Planning & Scheduling Offices Materials Offices Maintenance Mgt. Support Offices ETQS Trailer
Operations: All	Control Rooms/Operating Engineers' Offices
Integrated Scheduling: All	Integrated Scheduling Offices

Technical Services:

Projects

Projects Offices

Performance (All)

Performance Engineer's
Office

Health Physics:

Projects and Training

Station Health
Physicist's Office

Support Functions

Station Health
Physicist's Office

Surveillance and Control

Station Health
Physicist's Office
Operational Support
Center

HP Shift Personnel (A,B,C,D,E)
(On-Duty)

Chemistry:

Staff Chemists
Radwaste

Station Chemist's Office
Radwaste Coordinator's
Office

Power Chemistry
Chemistry Shift Personnel
(On-Duty A,B,C,D,E)
Environmental Chemistry
Radwaste Startup Team

Station Chemist's Office
Operational Support
Center
Environmental Offices
Radwaste Startup Office

Compliance

Compliance Engineer's
Office

Quality Assurance: All

Quality Assurance Office

Training Services: All Personnel
at Training Center

Oconee Training Center

Oconee Safety Review Group: All

Compliance Office

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

Section

Assembly Point

Station Services:

Administration Offices

Operations:

Operating Engineers'
Offices

Chemistry:

Station Chemist's Office

Health Physics:

Station Health Physicist'
Office

SMS:	SMS Offices
Station Support Division:	SSD Offices
Keowee:	Keowee Hydro Station
Visitors' Center:	Visitor Center Office
Quality Assurance:	QA Offices

DUKE NON-OCONEE NUCLEAR STATION PERSONNEL

<u>Section</u>	<u>Assembly Point</u>
Design Engineering:	Projects Office
Maintenance:	Service Building Mezzanine (I&E, Mechanical Maintenance or Planning & Scheduling Offices)
Sub. Station Maintenance	Sub. Station Maintenance Office

NON-DUKE OCONEE NUCLEAR STATION PERSONNEL

K-Mac:	Those Inside Security	Canteen South End, Turbine Building
	Those Outside Security	Administration Bldg. Canteen
Babcock & Wilcox:	All	Resident Engineer's Office
Globe Security:		Personnel Access Portal
Health Physics Vendors		Station Health Physicist's Office
Chem-Nuclear:		Radwaste Coordinator's Office
NRC: All		Compliance Office
Wometco: All		Administration Building Canteen

VISITORS

Inside Security with Escort	Receptionist Lobby
Outside Security	Receptionist Lobby

OTHER PERSONNEL OUTSIDE PROTECTED AREA

All personnel not identified above will report to the Receptionist Lobby.