

CRISIS MANAGEMENT PLAN

IMPLEMENTING PLANS

5.3.6 - Health Physics/Radwaste Support Group

Rev. 3  
Revision Number

April 30, 1982  
Date

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I. SCOPE

The Health Physics/Radwaste Group is responsible for providing support to the Recovery Manager in matters relating to onsite Health Physics, Radwaste, and Chemistry.

The main objective of the Health Physics/Radwaste Group during the initial phase of an incident (first few days) are to:

1. Retain and/or return radioactive liquids and gases involved in the incident to the containment building.
2. Take advantage of the radioactive decay process.
3. Keep contaminated surfaces wet.
4. Review all outside recommendations to protect plant from outside interference.

## II. FUNCTIONAL RESPONSIBILITY

The Health Physics Radwaste Group organization is displayed in Tables 1, 2, and 3. Table 4 lists the home and office telephone numbers for the group.

### A. Health Physics/Radwaste Manager

Reports to: Recovery Manager

Supervises: Health Physics, Chemistry, and Radwaste Staffs

#### Basic Function:

Coordinates the Health Physics, Chemistry and Radwaste activities in support of the recovery systems.

#### Primary Responsibilities:

1. Direct the activities of the Health Physics, Chemistry, and Radwaste Staffs in the development and implementation of plans and procedures to minimize radiation exposure and off-site releases.
2. Assure the Health Physics, Chemistry, and Radwaste Staffs are adequately staffed and equipped to respond in timely fashion.
3. Assure that Health Physics, Chemistry, and Radwaste specialists are available on a pre-planned basis for assisting the Station Technical Support personnel as required.
4. Approve schedules and priorities for tasks assigned to the Health Physics/Radwaste Group.
5. Coordinate plans and schedules of tasks with appropriate managers of the recovery organization.
6. Provide information and recommendations to the Recovery Manager concerning future operations that could affect the plant or the environment.

#### Principal Working Relationships:

1. Nuclear Station Manager regarding dose control measures and implementation of plans to obtain samples and process liquid, gaseous and solid wastes, and to obtain data on plant waste systems status.

2. Technical Support Manager concerning review and approval of proposed modifications to procedures, systems, and equipment.
3. Design and Construction Support Manager concerning implementation of proposed modifications to systems and equipment.
4. Off-Site Radiological Coordinator concerning off-site sampling programs, dose assessments, and radiation protection programs.
5. Scheduling/Planning Manager regarding planned and scheduled activities of the Health Physics/Radwaste Group.

B. Resources Coordinator

Reports to: Health Physics/Radwaste Manager

Basic Function:

To assist the Health Physics/Radwaste Manager in all areas of responsibility and assure that Health Physics, Chemistry, and Radwaste activities are adequately staffed and equipped to respond in a timely fashion.

Primary Responsibilities:

1. Assist the Health Physics/Radwaste Manager in the direction and scheduling of Health Physics, Radwaste, and Chemistry activities in support of recovery operations.
2. Obtain personnel and equipment as needed to assure an adequate and timely response to Health Physics, Radwaste, and Chemistry activities.

Primary Working Relationships:

1. Health Physics/Radwaste Manager, Health Physics Coordinator, Radwaste Coordinator, and Chemistry Coordinator regarding personnel, equipment and supplies necessary to support recovery operations.
2. Administration and Logistics Manager regarding personnel, equipment, and supplies procurement and storage until needed.
3. Scheduling/Planning Manager regarding the implementation of Health Physics, Radwaste, and Chemistry activities.

C. Health Physics Coordinator

Reports to: Health Physics/Radwaste Manager

Supervises: Health Physics Staff Personnel

Basic Functions:

Directs the Health Physics Staff in providing technical support and assistance to the Station Health Physicist concerning radiation protection aspects of the recovery operation.

Primary Responsibilities:

1. Participates as a member of the Health Physics/Radwaste Manager support group and directs the Health Physics staff in support of the recovery operations.
2. Develop and assist in the implementation of radiation exposure control (ALARA) measures and procedures, and in the planning, scheduling, mock-up training, and performance of jobs involving personnel exposure to radiation and contamination.
3. Assist in the implementation of Health Physics related design requirements for waste system processing and design modification activities; and develop decontamination plans for affected plant areas.
4. Assist in the design, construction, and use of special contamination containment enclosures, temporary ventilation systems, temporary shielding, remote handling equipment, special tools, special means of communication, and other facilities to maintain personnel exposure to radiation and contamination ALARA.
5. Provide technical support for resolution of technical problems related to the Health Physics aspects of the recovery operation.
6. Complements station dosimetry services by providing all personnel other than station personnel with required dosimetry, conducting body burden analysis, issuing TLD badges, obtaining and maintaining required NRC and corporate personnel exposure records, and submitting personnel dosage reports through appropriate channels to the NRC and individual workers.
7. Prepare and present special Health Physics training directly related to recovery activities involving Health Physics consideration, assures that routine radiation protection training, and respiratory protective equipment training and fitting is accomplished.

8. Select and coordinate the procurement of additional or special Health Physics instruments, supplies, and manpower to support the recovery operations and for long term basis; direct instrument control services such as instrument calibration, repair, etc.
9. Maintain Health Physics related computer programs (exposure control, exposure record keeping, respiratory qualification and training, body burden analysis, etc.) and provide required reports to support the recovery operation.

Principal Work Relationships:

1. Station Health Physicist regarding radiation protection support and dose management.
2. Conceptual design group regarding shielding or equipment to be used in modifications.
3. Radwaste Coordinator regarding liquid, gaseous, and solid waste system processing, and decontamination plans.
4. Scheduling/Planning Manager regarding planned and scheduled activities involving personnel exposures to radiation and/or contamination.

D. Radwaste Coordinator

Reports to: Health Physics/Radwaste Manager

Supervises: Radwaste Staff Personnel

Basic Function:

Responsible for the development of plans and procedures to quantitate source term for potential effluent releases; for minimizing off-site effluent releases by developing plans and procedures to control liquid, gaseous, and solid waste processing; and for defining design requirements for any modifications or additional equipment necessary to facilitate waste processing in support of the recovery operation.

Primary Responsibilities:

1. Participate as a member of the Health Physics/Radwaste Manager's support group and direct the radwaste staff in support of radwaste recovery operations.
2. Develop and assist with the implementation of plans and procedures for monitoring and quantitating off-site releases.

3. Develop and assist with the implementation of plans and procedures for processing liquid wastes to minimize off-site releases.
4. Develop and assist with the implementation of plans and procedures for storage and filtration of gaseous wastes to minimize off-site releases.
5. Develop and assist with the implementation of plans and procedures for solidification of liquid and slurry wastes and for solid waste disposal.
6. Recommend equipment and vendors for use in radiation monitoring and waste processing activities.
7. Provide manpower to receive and ship radioactive materials at the station.

Principal Working Relationships:

1. Off-site Radiological Coordinator and Station Health Physicist regarding the magnitude of off-site releases and affects of waste processing of off-site releases.
2. Technical Support Coordinator regarding technical and licensing feasibility of processing plants.
3. Station Radwaste Coordinator and Chemistry Coordinator regarding the feasibility of processing plans, status of radwaste processing including radwaste volumes.
4. Vendors regarding radwaste processing equipment and services and radiation monitors.
5. Scheduling/Planning Manager regarding any modifications to radwaste and radiation monitoring systems.
6. Health Physics Coordinator regarding specialized procedures or equipment to be used to reduce radiation exposures to personnel during radwaste sampling and processing.
7. Station Health Physicist regarding off-site shipments of radioactive wastes.

E. Chemistry Coordinator

Reports to: Health Physics/Radwaste Manager

Supervises: Chemistry Staff Personnel



#### Basic Function:

Responsible for the development of plans and procedures to determine the extent of core damage that has occurred; to evaluate the types and quantities of fission products released to the containment in the liquid and gas phase; to determine the chemistry (dissolved gases, boron, and pH) of reactor coolant; to determine the containment hydrogen levels; and to reduce airborne radioactive iodine levels by chemical treatment.

#### Primary Responsibilities:

1. Participate as a member of the Health Physics/Radwaste Manager's support group and direct the chemistry staff in support of radwaste recovery operations.
2. Develop and assist with the implementation of plans and procedures for determining the extent of core damage.
3. Develop and assist with the implementation of plans and procedures to collect and analyze reactor coolant and reactor building sump samples.
4. Develop and assist with the implementation of plans and procedures to evaluate the results of analyses of reactor coolant and containment atmosphere samples for fission products, dissolved gas, boron, pH, and hydrogen content.
5. Develop and assist with the implementation of plans and procedures to reduce airborne radioactive iodine by chemical treatment.

#### Principal Working Relationships:

1. Station Chemist and Technical Support Manager regarding the extent of core damage.
2. Station Chemist and Radwaste Coordinator regarding collection and analysis of liquid samples.
3. Radwaste Coordinator and Station Health Physicist regarding collection and analysis of air samples.
4. Radwaste Coordinator regarding the feasibility of processing plans, status of radwaste processing including radwaste volumes.
5. Design and Construction Support personnel and Technical Support personnel regarding any modifications necessary to collect or analyze chemistry samples.

6. Station Operations Superintendent regarding chemistry and radio chemistry problems affecting operations.
7. Health Physics Coordinator regarding specialized procedures or equipment to be used to reduce radiation exposures of personnel collecting and analyzing reactor coolant and containment atmosphere samples.
8. Station Chemist and Health Physics Coordinator regarding chemicals and procedures to reduce airborne radioactive iodine levels.



### III. GROUP ACTIVATION PROCEDURE

- A. Health Physics/Radwaste Manager - Notification of an emergency or accident situation initiating the implementation of the overall Crisis Management Plan will be by the Manager of the Recovery Operation or by his designee.
- B. Health Physics/Radwaste Group - Notification of an emergency or accident situation initiating the implementation of the Health Physics/Radwaste Group Plan will be by the Manager of the Health Physics/Radwaste Group and/or his designee(s). Members of this group and their office and home phone numbers are included as part of this plan in Table 4.
- C. Upon Notification of an emergency or accident situation and the Recovery Manager decides to activate the near-site CMC at Oconee or McGuire Nuclear Station or the backup CMC at Oconee Nuclear Station, W. A. Haller, R. H. Charest, R. T. Simril, J. P. Biggerstaff, J. G. Weinbaum, R. C. Futrell and J. I. Wyant shall proceed to the specified site. All other personnel shall report to Wachovia Center WC-2390. B. E. Davis will assume the responsibilities of the HP/Radwaste Group Manager until the nearsite or backup CMC is activated. If the General Office staging area is initially activated, all personnel shall report to WC-2390 except for W. A. Haller and R. T. Simril who will report to the Recovery Manager in WC-1680.
- D. The Station Health Physicist is the person designated for Health Physics/Radwaste Group personnel to obtain information about the incident (sequence of events, present status, apparent causes, etc.)
- E. The "call tree" for use in initiating the Health Physical Radwaste Group Plan is described in Table 5. The Health Physics/Radwaste Manager contacted by the Recovery Manager or his designee will call the primary coordinator in each area and the alternate manager. The primary coordinators will contact their alternates. If the Health Physics/Radwaste Manager is unable to reach a primary coordinator he will contact all of the alternates in that area.

#### IV. FACILITIES, EQUIPMENT, AND RESOURCES

- A. Facilities - The Health Physics/Radwaste Manager is located in the Crisis Management Center (location as specified by the Recovery Manager upon initial notification). This center is the headquarters of the Recovery Manager and his staff and from here all emergency and recovery activities will originate. For initial General Office staging, the CMC will be in WC-1680. The near-site and backup CMC for Oconee Nuclear Station are the Oconee Training Center and Liberty Retail Office, respectively. The near-site CMC location for McGuire Nuclear Station is at the Technical Training Center and the backup location is in the General Offices in Charlotte. The Health Physics/Radwaste Technical Personnel will operate out of Wachovia Center 2390.

#### B. Equipment and Resources

##### 1. Communication

- a. Crisis Management Center - redundant two-way communications with the Emergency Operation Center, the Control Room, other appropriate off-site agencies and telephone.
- b. Alternate Crisis Management Center - Has some communications capability as described for Crisis Management Center.
- c. Support Group Personnel at Site - Telephone connections with Crisis Management Center and Alternate Crisis Management Center, and with the station.
- d. Personnel at General Office - Telephone, public or private.

##### 2. Technical and Professional Personnel

##### a. Health Physics

(1) Coordinator - 1

(2) ALARA Planning/Engineering - 8

For HP Organization:

- (a) D. T. Parsons
- (b) 1 Vendor supplied engineer/professional

For Oconee:

- (a) D. Davidson
- (b) H. Smith
- (c) W. Stengel
- (d) J. Ferguson
- (e) R. Cole
- (f) 2 Vendor supplied engineer/professionals

For McGuire: (a) J. Ferguson  
(b) D. Davidson  
(c) H. Smith  
(d) R. Cole  
(e) G. Rawn  
(f) 2 Vendor supplies engineers/  
professionals

(3) Dosimetry Service - 9

- (a) 1 Technician Ocone or McGuire supplied
- (b) 3 Clerks Ocone or McGuire supplied
- (c) 2 Clerks Vendor supplied

(4) Training and Respiratory Fitting - 3

- (a) 3 Technicians Ocone or McGuire supplied

(5) Instrument Calibration (long term) - 2

- (a) 2 Technicians Ocone or McGuire supplied.

b. Radwaste

(1) Coordinator - 1

(2) Planning/Engineering - 3

For Ocone (a) D. L. Vaught  
(b) M. G. Case  
(c) T. Hartman

For McGuire (a) D. L. Vaught  
(b) P. Farrish  
(c) B. Wood

(3) Offsite Releases - 2

- (a) J. M. Stewart
- (b) K. Jones

(4) Vendor Interfaces - 1

- (a) Vendor Representative

(5) Shipping/Receiving - 4

- (a) M. G. Kriss
- (b) C. F. Lan
- (c) 2 Technicians Ocone or McGuire supplied

c. Chemistry

(1) Coordinator - 1

(2) Sample Collection - 10

(a) 10 Technicians Ocone or McGuire supplied

(b) 6 alternates: J. A. Mathews  
P. W. Downing  
J. B. Wilson  
W. M. Funderburke  
W. C. Orth  
S. Biswas

(3) Data Evaluation - 3

(a) W. R. McCollum  
(b) W. H. Rasin  
(c) 1 Westinghouse representative for McGuire  
(d) 1 B&W representative for Ocone

(4) Special Projects - 5

(a) W. M. Funderburke  
(b) W. C. Orth  
(c) J. A. Mathews  
(d) P. W. Downing  
(e) S. Biswas

3. Equipment and Supplies

- a. Computer input/output capability including dedicated phone lines
- b. Calculators - batteries, chargers
- c. Stationery Supplies
- d. Recorders - extra tapes, batteries, chargers
- e. Floor plans of station - projected radiation levels  
electrical outlets  
breathing air header outlets  
instrument air header outlets  
demineralized water outlets  
sampling locations  
radiation monitor location  
high radiation area doors
- f. Flow Diagrams of Processing Capabilities including storage capacity

- g. System Descriptions for waste and ventilation systems
  - h. Technical Specifications and 10CFR, 49CFR, State Reg.
  - i. Elevator Capacities and Floor Loading
  - j. Station Organization Charts - names and phone numbers
  - k. Emergency mobile counting capabilities
  - l. Lists of vendor/utility contacts for services, equipment and supplies
4. HP/Radwaste Emergency Kits

HP/Radwaste Emergency Kits are located in Room 2306 of Wachovia Center. Should the near-site CMC be activated, these kits will be delivered to the CMC by the Administration and Logistics Group. Contact personnel will be W. T. Merritt and C. F. Lan in HP/Radwaste and S. M. Kessler in Administration and Logistics.

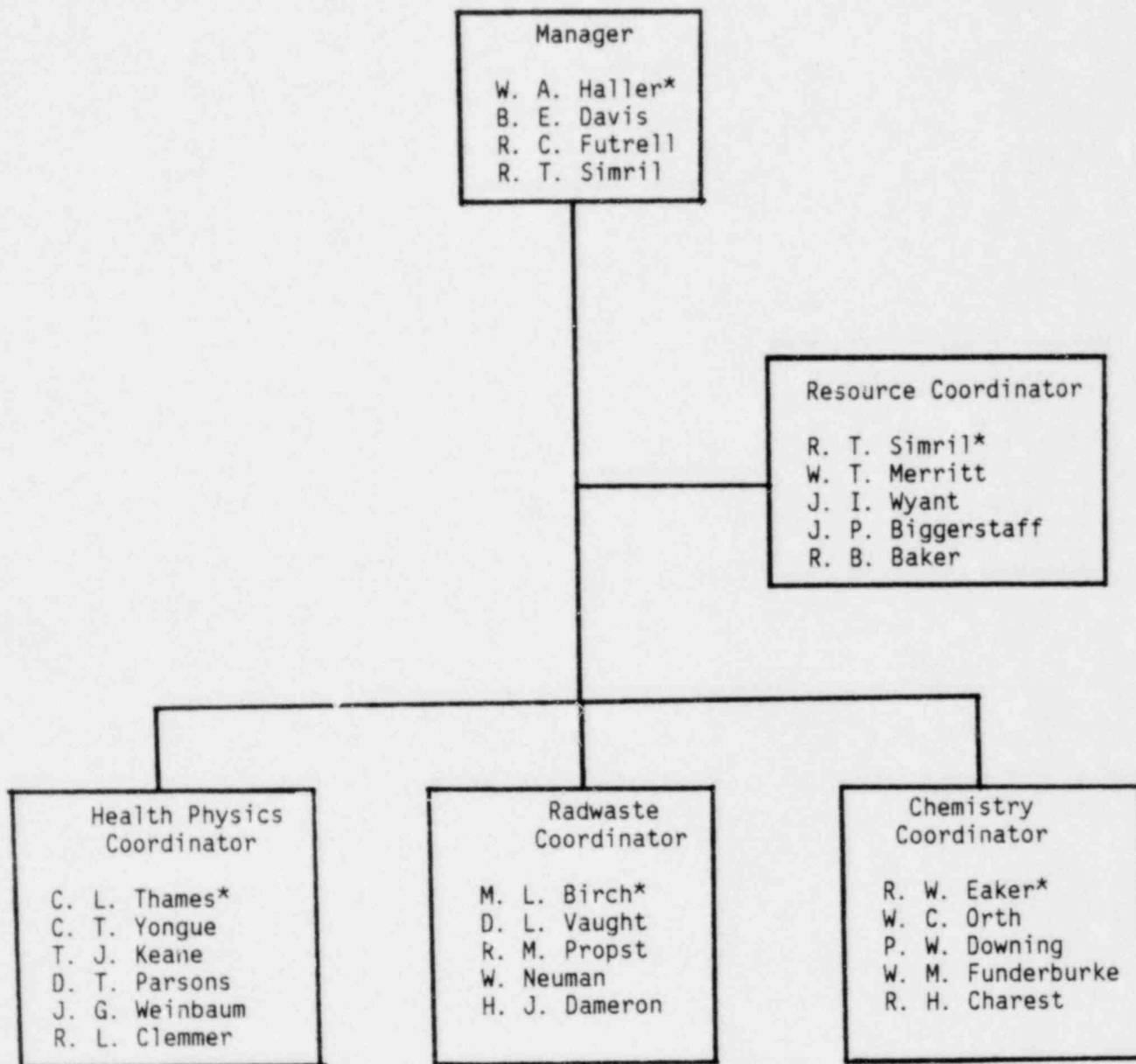
V. LONG RANGE RECOVERY FUNCTIONS

As described in Table M-1 of the Crisis Management Plan, the Health Physics/Radwaste group plays a vital role in recovery from a major incident.

The group responsibilities during recovery be will in:

- a. Direct chemistry and radiochemistry support
- b. Coordinate sample analysis
- c. Implement radiological work control checklists
- d. Assure regulatory compliance in radwaste storage
- e. Radwaste reduction
- f. Maintaining budgetary control in these areas.

TABLE 1  
HEALTH PHYSICS/RADWASTE  
ORGANIZATION



\*Primary

TABLE 2

HEALTH PHYSICS COORDINATOR/STATION HEALTH PHYSICS ORGANIZATIONS

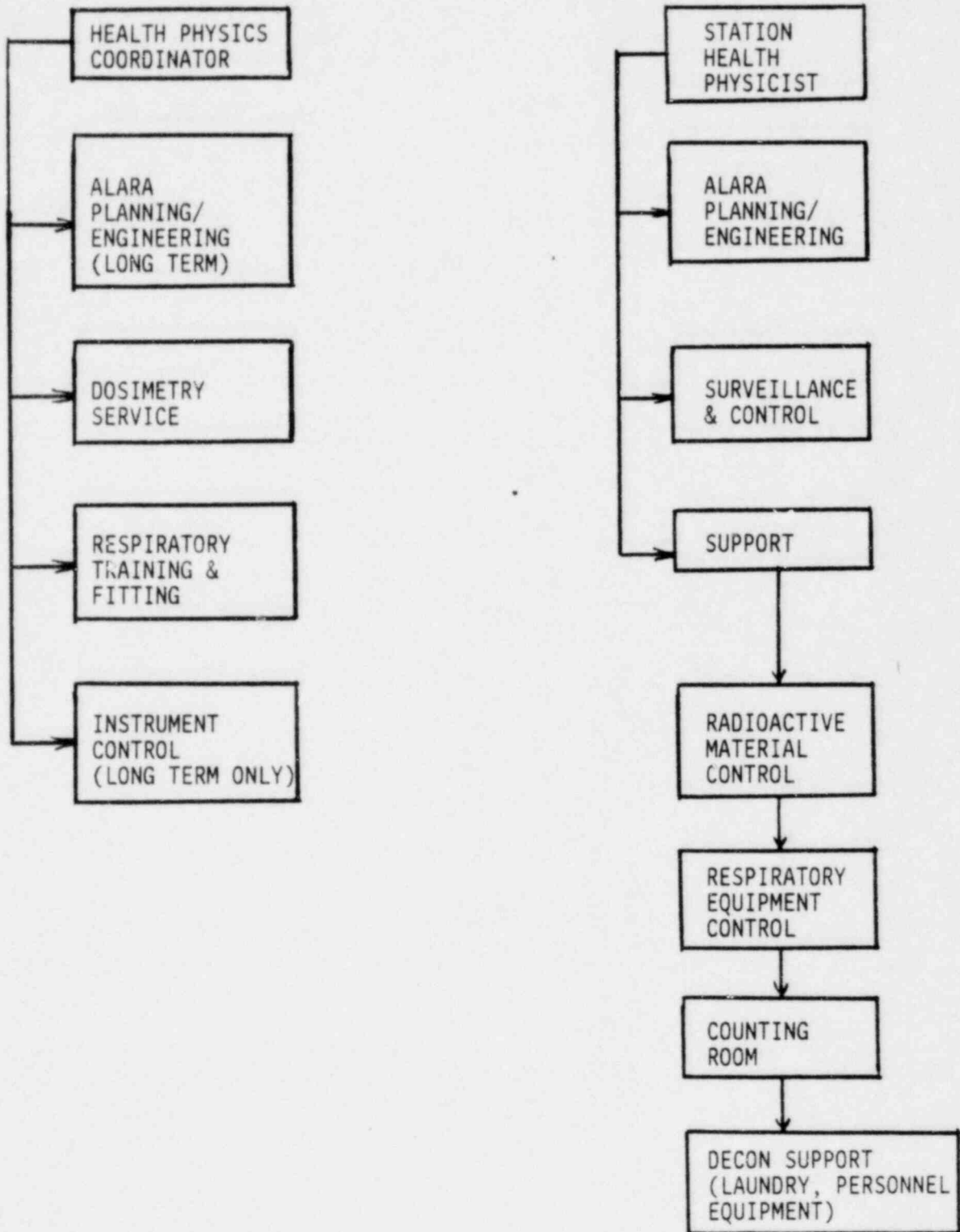




TABLE 3

RADWASTE COORDINATOR/STATION HEALTH PHYSICS AND  
CHEMISTRY ORGANIZATION INTERFACE

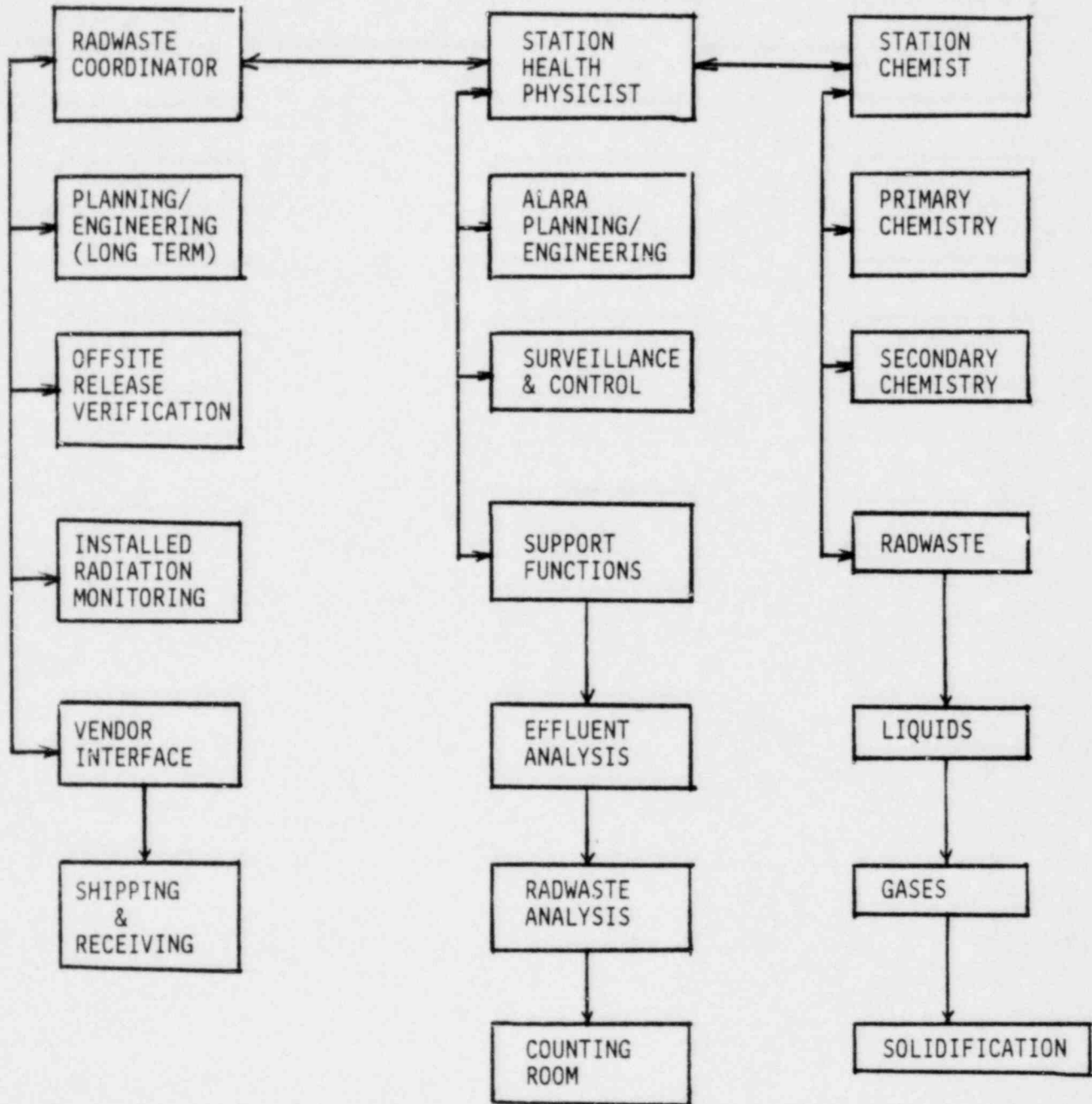


TABLE 4

HEALTH PHYSICS/RADWASTE GROUP PERSONNEL

<u>Position</u>	<u>Name</u>	<u>Business Phone</u>	<u>Home Phone</u>
Manager	W. A. Haller	704/373-8506	
	R. T. Simril	704/373-7606	
	B. E. Davis	704/373-8195	
	R. C. Futrell	704/373-8485	
Resource Coordinator	R. T. Simril	704/373-7606	
	W. T. Merritt	704/373-4121	
	J. I. Wyant	704/373-6120	
	J. P. Biggerstaff	704/875-1971	
	R. B. Baker	704/373-5259	
Health Physics Coordinator	C. L. Thames	704/373-8865	
	C. T. Yongue	803/822-5363	
	T. J. Keane	704/875-1357	
	D. T. Parsons	704/373-8245	
	J. G. Weinbaum	704/373-8897	
	R. L. Clemmer	803/324-3128 ext. 2387	
Radwaste Coordinator	M. L. Birch	704/373-4504	
	D. L. Vaught	704/373-5495	
	R. M. Propst	704/875-1357	
	W. Neuman	110/1181	
	H. J. Dameron	704/373-7717	
Chemistry Coordinator	R. W. Eaker	704/373-8356	
	W. C. Orth	704/875-1971	

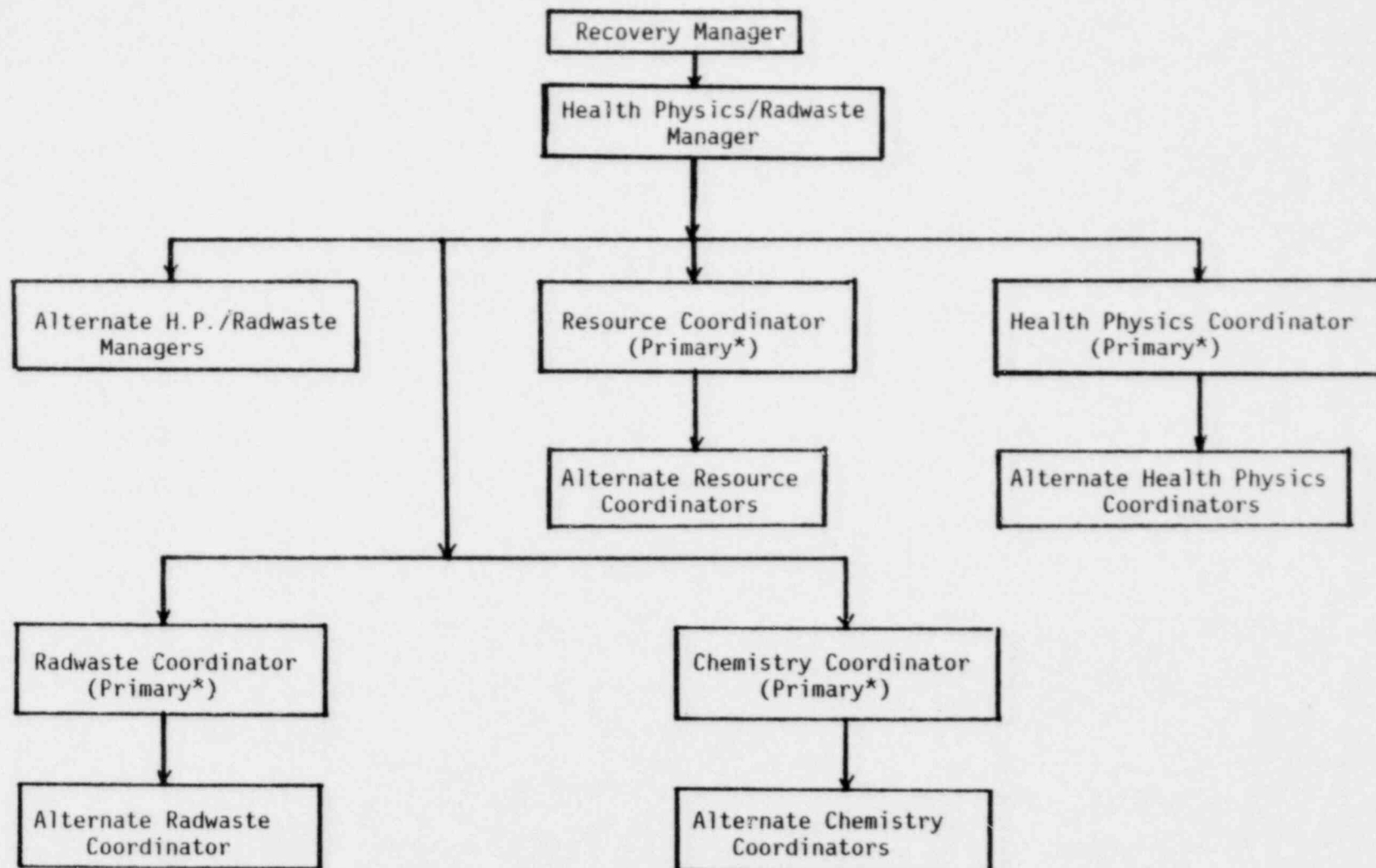
TABLE 4 (cont'd)

HEALTH PHYSICS/RADWASTE GROUP PERSONNEL

<u>Position</u>	<u>Name</u>	<u>Business Phone</u>	<u>Home Phone</u>
Chemistry Coordinator	P. W. Downing	704/373-8779	
	W. M. Funderburke	704/373-7060	
	R. H. Charest	704/373-7073	

\*Unlisted

TABLE 5



\*The Health Physics/Radwaste Manager will attempt to contact the primary Coordinators, who will then contact the alternates for their position. If the primary coordinators cannot be reached, the Health Physics/Radwaste Manager will contact all of the alternates in that area.

TABLE 6

HEALTH PHYSICS/RADWASTE GROUP PHONES

Room 2390	7790 5444	(Speaker Phone)
Room 1680	7951 7949 5731 5743	
Technical & Training Center (McGuire)	501 502 503 504	(Speaker Phone)
Oconee Training Center	1501 1502 1503 1504	

Duke Power Company

Crisis Mangement Organization

For

Nuclear Stations

5.3.1

Recovery Manager & Immediate Staff Group Plan

2/25/81; Rev. 1 11/15/81; Rev. 2 4/30/81

Recovery Manager and Immediate Staff Group Plan

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I. SCOPE

The Recovery Manager and Immediate Staff are responsible for the overall management and recovery of nuclear station(s) emergency situations requiring activation of the Crisis Management Plan.



II. RECOVERY MANAGER AND IMMEDIATE STAFF ORGANIZATION

Recovery Manager

H. B. Tucker - Primary  
Wm. O. Parker, Jr. - Alternate  
R. M. Koehler - Alternate

Corporate Emergency  
Coordinator  
R. M. Glover

Administrative Asst.  
B. T. Faulkenberry

Administrative Asst.  
Margaret Gilbert

Senior Company Officer

A. C. Thies - Primary  
W. H. Owen - Alternate

### III. FUNCTIONAL RESPONSIBILITIES

#### A. Recovery Manager

Reports to: Vice President - Steam Production Department  
Sr. Vice President - Production and Transmission

Supervises: Immediate Staff and All Functional Managers

Basic Function: Supervises the overall management and recovery of nuclear station emergency situations requiring activation of the Crisis Management Plan.

#### Primary Responsibilities:

1. Establish a direct line of communications with the Station Manager/Emergency Coordinator to be able to provide input and assistance to the station.
2. To direct the functional area managers in necessary tasks to be performed for resolution of the situation.
3. To provide a Duke Power Company management link for coordination with the NRC and other federal agencies.
4. To provide a means for management review and approval of recommended actions to resolve emergency situations.
5. To make recommendations to offsite agencies for public protective actions.

#### Principal Working Relationships:

1. Station Manager for status updates, system operation, and other necessary information.
2. Function Managers for distribution of work tasks.
3. NRC and other federal agencies for consultation and recommendations.
4. State and local officials for making public protective action recommendations.

#### B. Corporate Emergency Response Coordinator

Reports to: Recovery Manager

Supervises:

Basic Functions: Advise the Recovery Manager on the Crisis Management Plan and Station Emergency Plan relationship to the emergency situation.

Primary Responsibilities:

1. Assist the Recovery Manager in classification of emergency conditions, recommendations to offsite authorities, and in consultations with NRC and other federal agencies.
2. Participates as a member of the Recovery Manager's Advisory Support Group.

Principal Working Relationships:

1. Recovery Manager for Emergency Plan considerations
  2. Functional Managers/Administrative Assistant for work tasks
  3. NRC for Emergency Plan considerations
- C. Recovery Manager's Administrative Assistant

Reports to: Recovery Manager

Supervises:

Basic Function: To assist the Recovery Manager in assignment and distribution of work tasks, followup on specific projects, in other requests as they arise; and to maintain the official CMC log book of decisions, activities, and operations.

Primary Responsibilities:

1. To assist the Recovery Manager in resolution of nuclear facility emergencies requiring activation of the Crisis Management Plan.

Principal Working Relationships:

1. Recovery Manager for work tasks
  2. Functional Manager/Emergency Coordinator for resolution of tasks
- D. Senior Company Officer

Reports to: Duke Power Company President, Board of Directors

Supervises: N/A

Basic Function: This position serves as the senior management contact with the Crisis Management Organization and as the focal point for questions from the Governors of North and South Carolina, other senior level management, and the Board of Directors.

Primary Responsibilities:

1. This position will make an initial "courtesy call" to the Governors of North and South Carolina, making himself/herself available for followup calls on an as-needed, informal basis. The Governor will be kept up-to-date on the specifics of the situation by his/her staff.

North Carolina Governor's office 919/733-5811

South Carolina Governor's office 803/758-3208

2. This position will serve as the focal point for questions from other senior level management.
3. This position will serve as the focal point for questions from the Board of Directors.
4. This position receives information on the status of the plant from the scheduling coordinator of the Scheduling/Planning Group.

Scheduling Coordinator Can Be Reached At:

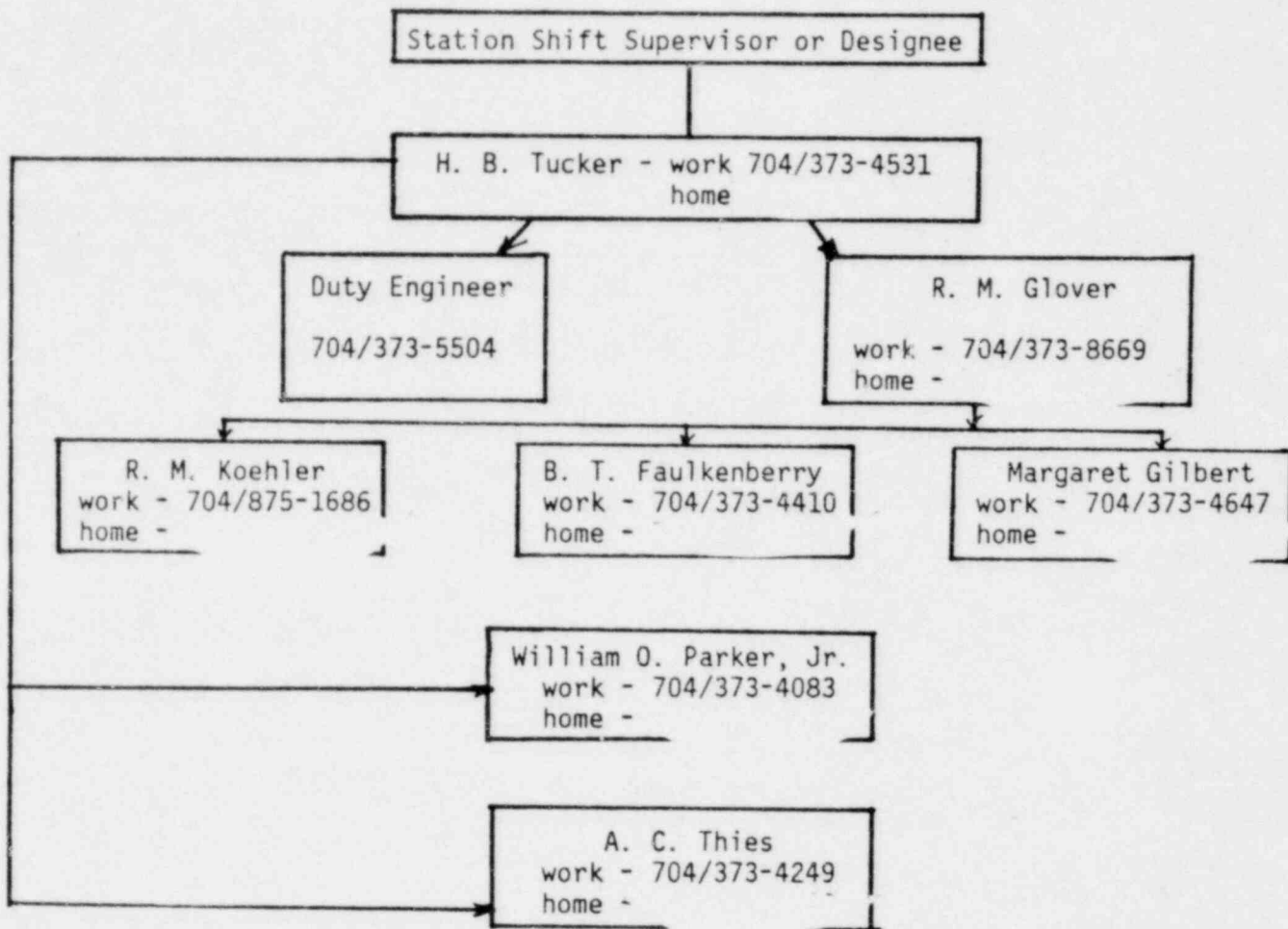
704/373-7949 (G.O. - WC 1680) Prior to CMC Activation

803/882-9801 or 110-1711 Oconee CMC

373/7750 or 875-1686 ext. 511 McGuire CMC

5. This position will receive initial notification from the Recovery Manager as shown in Part IV of this plan.

IV. NOTIFICATION PROCEDURE - CALL LIST



DUKE POWER COMPANY  
CRISIS MANAGEMENT ORGANIZATION  
FOR  
NUCLEAR STATIONS

DESIGN & CONSTRUCTION SUPPORT GROUP PLAN

OCONEE NUCLEAR STATION

MCGUIRE NUCLEAR STATION



APPROVED: DESIGN & CONSTRUCTION SUPPORT GROUP MANAGER

Original Issue	- 7/17/80
Revision 1	- 10/27/80
Revision 2	- 1/27/81
Revision 3	- 2/11/81
Revision 4	- 7/16/81
Revision 5	- 11/10/81
Revision 6	- 3/4/82

# DESIGN AND CONSTRUCTION SUPPORT GROUP

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E. Director of Quality Assurance	
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6.

DESIGN & CONSTRUCTION SUPPORT GROUP  
DISTRIBUTION LIST - CRISIS MANAGEMENT PLAN

COPY NUMBER

INDIVIDUAL

19

J. L. Elliott

20

S. K. Blackley

21

A. R. Hollins

22

S. B. Hager

23

C. J. Wylie

24

G. D. Rowland

77

L. C. Dail

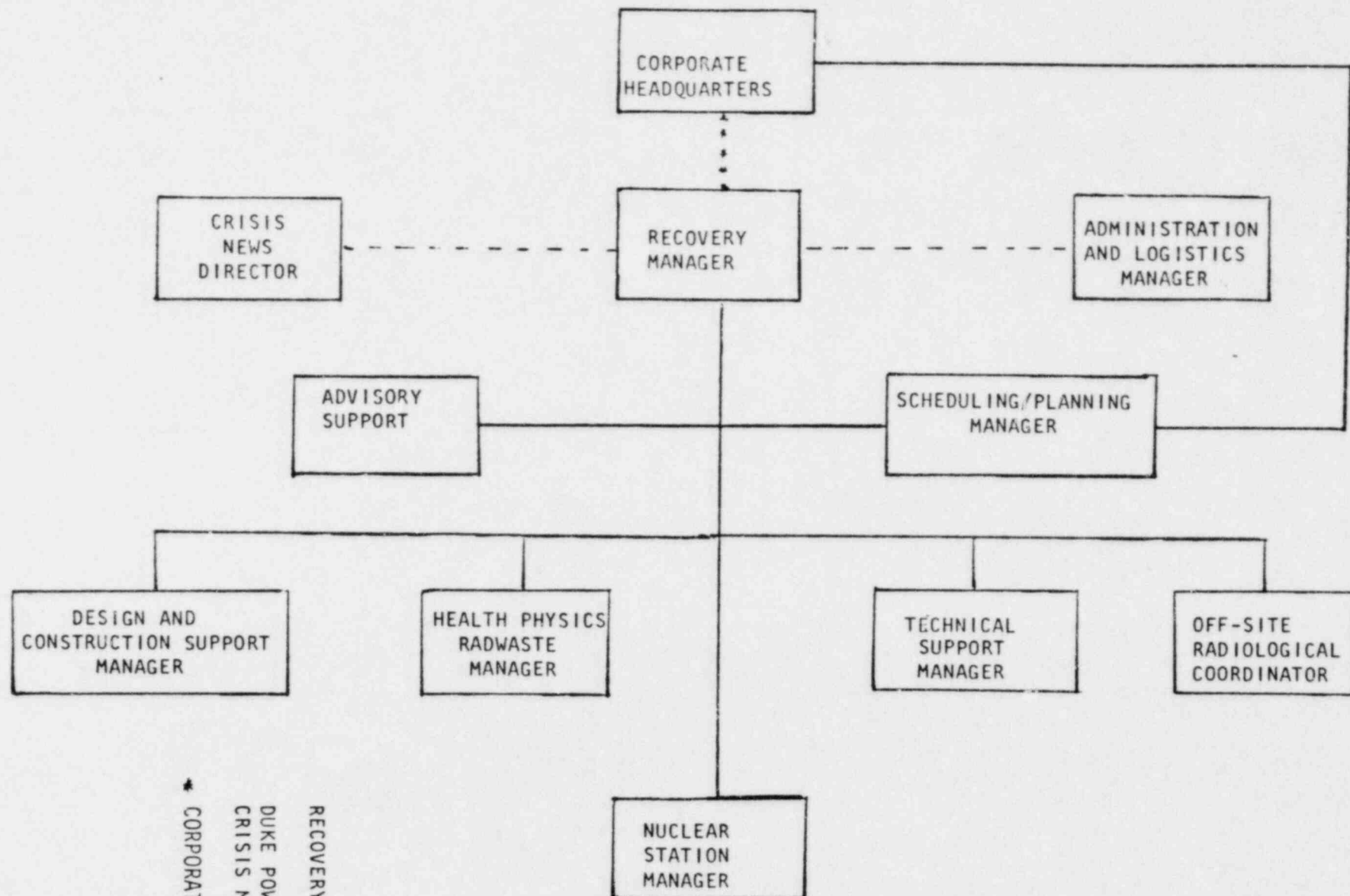
81

C. D. Jennings

82

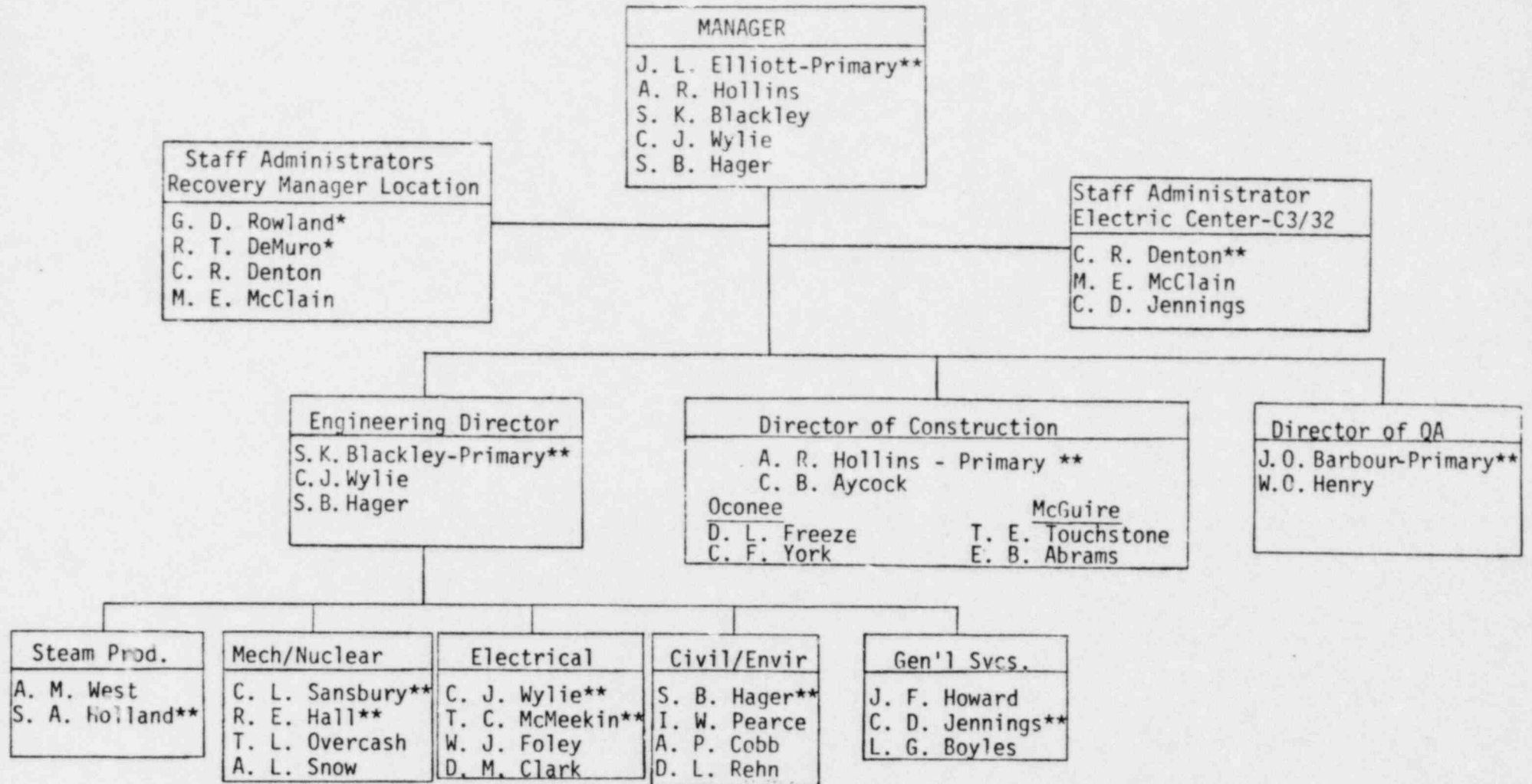
C. D. Jennings





RECOVERY MANAGER AND STAFF  
DUKE POWER COMPANY  
CRISIS MANAGEMENT PLAN  
\* CORPORATE POLICY INPUT

# DESIGN & CONSTRUCTION SUPPORT GROUP



\* Report to location designated by Recovery Manager at time of notification (see page 11 - Emergency Facilities)

\*\* Report to Electric Center Conference Room C3/32 after notification.

NOTE: No person will serve as primary in two places.

II.

A. Additional Support Personnel

1. Engineering Personnel

<u>Name</u>	<u>Area of Expertise</u>	<u>Office #</u>	<u>Home #</u>
J R Hendricks	Fire Prot & Architecture	373-8442	
H D Brandes	Fire Protection	373-6191	
W H Scheffler	Piping & Stress Analysis	373-4538	
R M Sandifer	Instrumentation	373-4830	
E C Fiss	Nuclear Consultant	373-4785	
W H Rasin	Nuclear	373-5830	
J E Thomas	Inst & Control Equipment	373-4612	
D W Murdock	Inst & Control Systems	373-4033	
H L Davenport	Process Computers & Security	373-8164	
R H Waltman	Electrical Design	373-4709	
C E Kneeburg	Electrical Design	373-8207	
D G Owen	Electrical Station Support	373-4901	
G M Bostian	Electrical Station Support	373-4394	
S H Derrick	Document Retention	373-8014	

Other engineering and technical support personnel are available as needed in the General Office area and at each construction site.

2. Construction Personnel

The Construction Department Manager, Employee Resources and Development, maintains a directory of key Construction Department supervisors who have skills that might be required during an emergency at an operating nuclear plant. During a developing or short duration emergency, the directory will be used by the Administrative and Logistics Group to contact needed employees as directed by the Design and Construction Manager or his designee. In a longer term recovery situation, the Construction Department Manager, Employee Resources

### III. Functional Responsibilities

#### A. Design and Construction Manager

Reports to: Recovery Manager

Supervises: Design and Construction Staff

Basic Functions: Coordinates the design and construction activities of Design Engineering, NSS Suppliers, Construction forces, and outside vendors.

Primary Responsibilities:

1. Direct the activities of Design Engineering, Construction forces, Quality Assurance, and outside vendors on plant modifications.
2. Assure the design and construction activities are adequately staffed and equipped to respond in timely fashion.
3. Determine application of Corporate Quality Assurance Program. Recovery Manager or Station Manager approval is required for deviations from present practices.
4. Assure that engineering and technical specialists are available on a pre-planned basis for assisting the Technical Support, Station, Health Physics/Radwaste and Recovery Managers as required.
5. Participates as a member of the Recovery Manager's Advisory Support Group.

Principal Working Relationships:

1. Station Manager for plans on modifications to systems and equipment in plant.
2. Technical Support Manager for joint review of proposed modifications to systems and equipment in the plant.
3. Health Physics/Radwaste Manager for modifications to systems and equipment and support of activities in the waste management area.
4. Scheduling and Planning Manager for status of activities in the Design and Construction area.

#### B. Staff Administrators

Report to: Design and Construction Manager

Basic Functions: To assist the Design and Construction Manager in all areas of his responsibility and perform other tasks that the Manager may direct to meet requirements of the recovery operation.

The Staff Administrator reporting to Electric Center Conference Room C3/32 after notification is responsible for moving the VAX computer terminal from David Nabow Library (EC-0230) to room C3/32. He is also responsible for setting the terminal up and operating it during the emergency or drill to receive plant data sheets.

Steam Production Liaison

Reports to: Engineering Director

Basic Functions: Provide Steam Production input to the design response in an emergency situation.

Primary Responsibilities:

1. Provide operational, functional, and maintenance engineering expertise, as required to Engineering Director and other members of the Group.
2. Coordinate Steam Production reviews on proposed designs and modifications originating from the Design and Construction Support Group.

Manager, Mechanical/Nuclear Division

Reports to: Engineering Director

Basic Functions: Provides the mechanical and nuclear design response to meet the requirements of the recovery operation.

Manager, Electrical Division

Reports to: Engineering Director

Basic Functions: Provides the electrical design response to meet the requirements of the recovery operation.

Manager, Civil/Environmental Division

Reports to: Engineering Director

Basic Functions: Provides the civil/environmental design response to meet the requirements of the recovery operation.

Manager, General Services Division

Reports to: Engineering Director

Basic Functions: Provides Document Retrieval Assistance for the Recovery Operation. Responsible for taking a copy of the full Crisis Management Plan to EC3/32 after notification. Maintains a separate copy of the full Crisis Management Plan at EC3-02 for checkout by members of the Design and Construction Support Group. Maintains roadblock passes for use by any members of Design and Construction Support Group sent to Ocone for an emergency or drill.

Primary Responsibilities:

1. Direct and control Quality Assurance Staff on all administrative and technical matters.
2. Assure the quality assurance activity is adequately staffed and equipped to provide timely support.
3. Direct and coordinate the implementation of the quality assurance program for approved construction operational tasks or other engineering and design tasks as appropriate and required.

Principal Working Relationships:

1. Director of Construction and Engineering Director regarding the interfacing of construction and design activities with quality assurance activities.

Role of Quality Assurance:

The role of the Quality Assurance Department in an emergency situation in support of operational activities will remain under the jurisdiction of J. R. Wells/J. O. Barbour/Senior Quality Assurance Engineer and will not change substantially from normal practices. However, suspension of some operational quality assurance measures, as well as some design and construction quality assurance measures could be required due to time constraints. The Design and Construction Manager will determine application of Corporate Quality Assurance Program and apply as appropriate. Recovery Manager or Station Manager approval is required for deviations from present practices.

IV. Notification Procedure

Upon notification and initiation of the Crisis Management Plan, members of the Design and Construction Support Group are to report to either the Recovery Manager's designated location or Electric Center Conf Rm C3/32 as directed.

Design and Construction Support Group personnel who report to the designated location, if they are the first to arrive, will assume the role of organizing the designated location for the Recovery Manager. The first member to arrive will continue to serve in this role until such time as the Recovery Manager, an alternate, or the Scheduling/Planning Manager or his alternate arrives to assume the lead responsibilities. Initial actions to be completed and documented are as listed on the Activation Checklist (see page 15). This Checklist is to be started by the first member of the Crisis Management

6.



2. Backup Crisis Management Center
  - a. McGuire - Wachovia Center Room #1680
  - b. Oconee - Liberty Retail Office, Liberty SC (pages 22 & 23)
3. General Office Staging Area (McGuire and Oconee)  
Wachovia Center Room #1680

B. General Office Groups

General Office Headquarters will be maintained by the Design and Construction Support Group, Technical Support Group, HP/Radwaste Support Group, and Administration and Logistics Support Group.

<u>Group</u>	<u>GO Location</u>	<u>Phone</u>
Design & Construction	EC3/32	704-373-4662 704-373-5304 704-373-5305
Technical Support	WC 1760	704-373-5177 704-373-5235 704-373-5236
HP/Radwaste	WC 2390	704-373-7790
Administration & Logistics	WC-1514	704-373-6271 704-373-7405 704-373-7406

6.

These headquarters will direct the General Office response activities of their respective groups. The Technical Support Group is responsible for getting up-to-date plant status data to the Design and Construction and HP/Radwaste Support Groups.

C. Additional Support Personnel

Temporary quarters for the additional support personnel will be established as necessary at time of emergency in a near site "trailer city". Space for 25-30 trailers and mess facilities are provided; power and telephone services will be provided at the discretion and direction of Administration and Logistics Manager. "Trailer City" locations are as follows:

Oconee: Keowee Construction Yard, about 1600 feet east of the 525 switchyard

McGuire: Parking lot area at Training and Technology Center, if needed.

VI. Emergency Equipment

Plant data is transmitted to various support groups by means of the VAX computer system during emergencies and drills. Technical Support Center personnel are responsible for releasing plant data on a timely basis. The Design and Construction Support Group VAX terminal is normally located in the David Nabow Library (EC-0230). During emergencies and drills this terminal will be relocated to C3/32 and operated by the C3/32 Staff Administrator.

6.

VII. Additional Support Needed From Other Groups

The following is a list of support activities that would be required from other groups in addition to the support that would normally be expected from the other Groups. (Reference Part III of Plan for identification of responsibilities and key interfaces.)

A. Administration and Logistics Group

1. Secretarial, clerical personnel and assistance for typing, filing, reproduction, etc.
2. Communications equipment for members of Group. Each construction foreman would need capability to communicate with Construction or Engineering Directors and General Superintendent while performing repair work inside the plant.
3. Field-purchasing and delivery of required construction materials including materials control and contract negotiation/administration.
4. Transportation and delivery of required "Special Requirements" and other Support personnel as identified by Group Manager or Directors.
5. Maps of the appropriate areas for each Group member.
6. Set up and furnish required drafting areas and office spaces as determined by Manager and Staff Administrator.
7. Funds to cover out-of-pocket expenses incurred by Group members.
8. Provide necessary training of other personnel as required.

B. Scheduling/Planning Group

Assemble the schedules and status reports for the Recovery Manager.

C. Technical Support Group

Review proposed modifications to station equipment and system.  
Provide NSSS interface.

D. Health Physics/Radwaste Group

Review proposed modifications to related equipment.

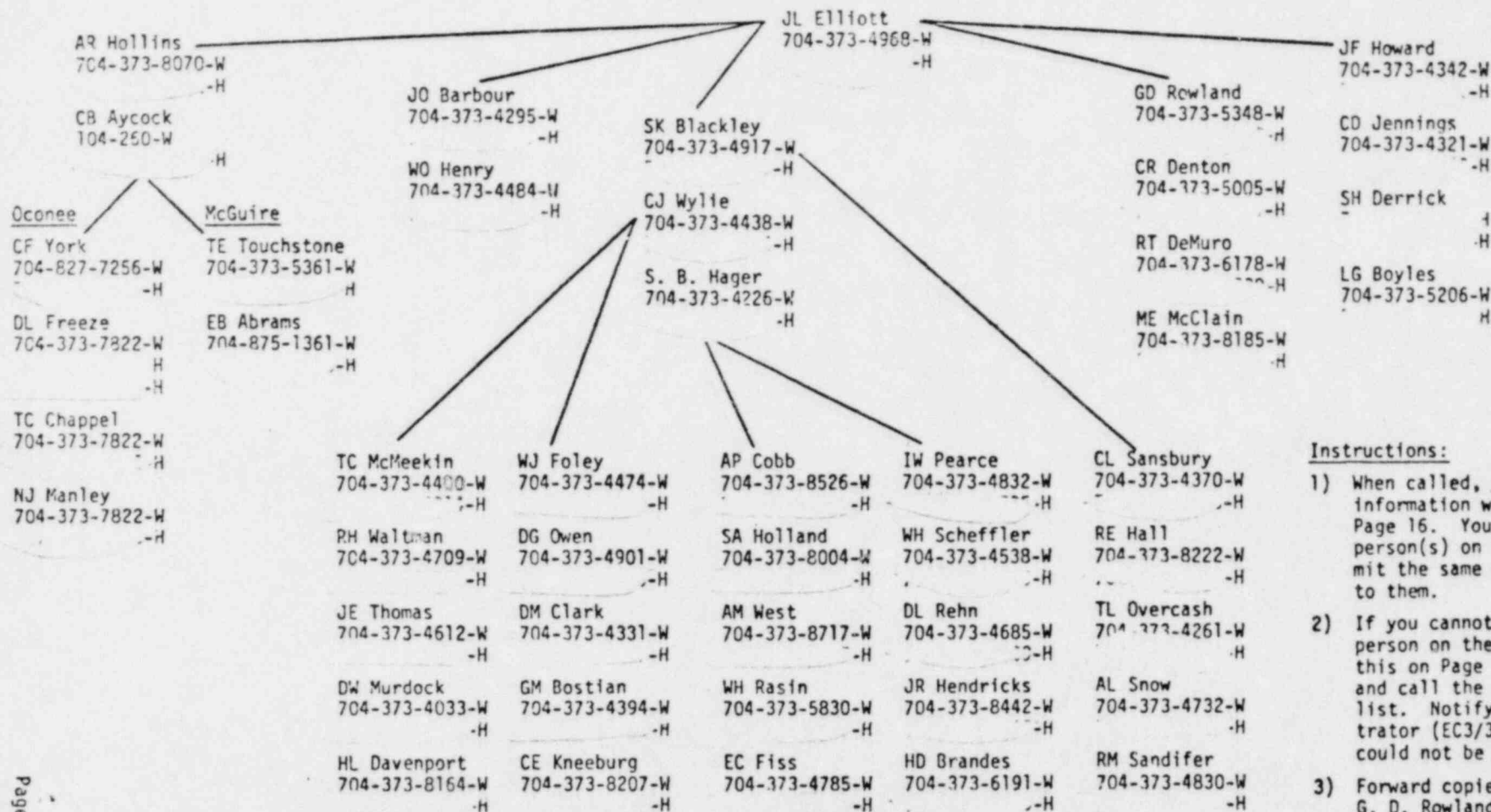


#### VIII. Recovery Planning

Once the immediate protective actions taken by the Crisis Management Organization have established an effective control over the emergency situation, actions will shift into the recovery phase. The Recovery Manager will inform the Group Managers when this is to occur.

J. L. Elliott will continue to act as the Design and Construction Manager during recovery. He will be responsible for assuring that Design and Construction activities are adequately staffed and equipped to aid the recovery effort. The Design and Construction Support Group organization will be changed as necessary to best meet the requirements of recovery.

CRISIS MANAGEMENT PLAN  
DESIGN AND CONSTRUCTION GROUP  
TELEPHONE CALL-UP LIST



Instructions:

- 1) When called, you will receive information which you record on Page 16. You then call the next person(s) on the list and transmit the same emergency information to them.
- 2) If you cannot contact the next person on the list, then note this on Page 16, skip that person, and call the next person on the list. Notify the Staff Administrator (EC3/32) if any persons could not be contacted.
- 3) Forward copies of Page 16 to G. D. Rowland EC5-33 and R. M. Glover WC-1500.

CRISIS MANAGEMENT PLAN

IMPLEMENTING PLANS

5.3.4 - Scheduling/Planning Support Group

Rev. 3  
Revision Number

April 30, 1982  
Date

#### 5.3.4 - Scheduling/Planning Support Group

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## I. SCOPE

The Scheduling/Planning Support Group performs a dual role in emergency/recovery situations. During the emergency phase of an incident, the group provides direct support to the Recovery Manager and the other Function Managers by maintaining displays and logs of plant status. This includes updating plant status boards, trending displays, and area maps showing protective action recommendations. In the long term recovery effort the individuals perform the functions of planning work items, scheduling the effort, and checking the progress of the work.

## II. FUNCTIONAL RESPONSIBILITIES

### A. Scheduling/Planning Support Group Manager

Reports to: Recovery Manager

Supervises: Scheduling/Planning Staff functions of Planning Coordinator, Scheduling Coordinator and Performance Monitor

#### Basic Functions:

This individual is responsible, in the emergency phase of an incident, for maintaining and updating plant status information in the nearsite Crisis Management Center (CMC) and to provide an informed contact for upper level management. In the recovery phase of an incident, this individual is responsible for formulating, coordinating, and expediting plans and schedules for the Recovery Manager.

#### Primary Responsibilities:

1. During the emergency phase of an incident:
  - a. Distribute updated plant status sheets and other information to nearsite CMC personnel (see procedure 5.3.9).
  - b. Update and maintain status boards in Recovery Manager's office.
  - c. Update and maintain status boards in WC-1680.
  - d. Update and maintain graphical displays of trends in key plant status data.
  - e. Provide a contact for upper-level management. This contact will be knowledgeable of plant systems and the emergency situation.
2. During the recovery phase of an incident:
  - a. Meet with and evaluate reports developed by the Planning Coordinator, Scheduling Coordinator, and Performance Monitor.
  - b. Formulate plans and schedules for the upcoming work periods based on Coordinator and monitor recommendations and report evaluations.
  - c. Meet with the Recovery Manager as required. Present concise progress reports, activity schedules, and overall progress review meeting agendas.

B. Planning Coordinator

Reports to: Scheduling/Planning Support Group Manager

Supervises: N/A

Basic Functions:

In the emergency phase of an incident this position serves as the contact for upper level management and provides support in the update and maintenance of plant status information.

In the recovery phase of an incident, this position serves as the focus for information from all recovery forces and formulates this information into a logical recovery plan. This position also maintains records and prepares progress reports on recovery operations. This position prepares the agenda for and keeps minutes of progress review meetings.

Primary Responsibilities:

1. In the emergency phase of an incident:
  - a. Serve as information contact for upper-level management
  - b. Support information update activities.
  - c. Update INPO at 404-953-5355 on a periodic basis.
2. In the recovery phase of an incident:
  - a. Provide 24 hour coverage throughout the incident for this function.
  - b. Establish a contact with each unit of the recovery team and the station staff.
  - c. Arrange to receive up-to-date status reports of the unit/plant conditions from other crisis management groups. This information will be maintained on an up to date status board stating items such as temperature, pressure, chemistry, radiation levels, etc. The board will be in easy access to the Recovery Manager and Scheduling Planning Manager. A written version of this information will be prepared by the Planning Coordinator on a timely basis.

- d. Work with the Performance Monitors and other Crisis Management groups to determine the job requirements and basic information on all work activities to be performed. This information shall be maintained in report form and shall detail the work to be performed, the responsible individual, estimated work time, estimated manpower, and anticipated problems with meeting the scheduled work time. This information will be provided to the Scheduling Coordinator.
- e. Meet periodically with the Scheduling Coordinator and Performance Monitors to develop a concise overall recovery effort status report.
- f. Reporting requirements are described in Figure 1.

C. Scheduling Coordinator

Reports to: Scheduling/Planning Support Group Manager

Supervises: N/A

Basic Functions:

During the emergency phase of an incident, this position provides support in the update and maintenance of plant status information. During the recovery phase this position works with the planning coordination function to reduce recovery activities planning into a clear straight-forward schedule for presentation to the Recovery Manager. Schedules will be presented using graphic techniques in such a manner that they can be revised as required.

Primary Responsibilities:

- 1. In the emergency phase of an incident:
  - a. Assist in the update and maintenance of plant status information.
- 2. In the recovery phase:
  - a. Develop daily, two day, and long range (crisis duration), schedules from time and priority estimates provided by the Planning Coordinator, Performance Monitor, or other Crisis Management staff. This information will be made available in both graphic and written report form.



- b. In their scheduling, use input from the Performance Monitors to determine whether or not a specific item is available for implementation on the present schedule.
- c. Update the schedule board as new information becomes available and include project milestones that must be overcome on all three schedules. (i.e., daily, two day, and long range).
- d. Receive progress reports on individual activities from the Performance Monitors to update schedules.
- e. Meet periodically with the Planning Coordinator and the Performance Monitors to develop a concise overall recovery effort status report. The responsibility for the production of this report lies with the Planning Coordinator and he will supply the document developed within the group to the Scheduling/Planning Manager.
- f. Reporting requirements are described in Figure 1.
- g. Serve as the primary contact for senior level Duke Power Company management.

D. Performance Monitor

Reports to: Scheduling/Planning Support Group Manager

Supervises: N/A

Basic Functions:

In the emergency phase of an incident this position assists in the update and maintenance of plant status information. In the recovery phase this position monitors the execution of the recovery schedule and provides feedback information to the planning/scheduling functions.

Primary Responsibilities:

- 1. In the emergency phase of an incident:
  - a. Assist in the update and maintenance of plant status information.
- 2. In the recovery phase:
  - a. The Performance Monitors will meet periodically with the Scheduling and Planning Coordinators to develop a concise overall recovery effort

status report. The responsibility for the production of this report lies with the Planning Coordinator and he will supply the document to the Scheduling/Planning Manager.

This report will list the individual events/activities and will detail the job description, percent completion, impact on the overall plan (i.e., job priority), any known delay or problem areas, recommendations to resolve known delay/problem areas, scheduled completion date, and expected completion date.

- b. Provide the Scheduling Coordinator a progress report for each individual event/activity on a timely basis. This report will list the following items:
  1. Event/activity title.
  2. Scheduled time frame for resolution of this item.
  3. Event status including manpower requirements, material needs, as well as technical/engineering support required from both inside and outside the responsible group.
  4. Projected schedule for upcoming "time/work" period including manpower and material requirements, and technical/engineering support necessary both inside and outside the responsible group for each phase of the job.
  5. Known/Anticipated - Delay/Problems. This will include an identification or description of these areas, the possible impact on this event's scheduled completion, and, if known, the impact on other related job schedules.
  6. Develop proposed recommendations to resolve known/anticipated delay/problem areas.
  7. Reporting requirements are described in Figure 1.

### III. SCHEDULING/PLANNING SUPPORT GROUP ACTIVATION

1. Once it has been determined that an Alert or higher classification event has occurred requiring the activation of the Crisis Management Organization, the Recovery Manager or his designee will contact the Scheduling/Planning Support Group Manager. This contact will be made according to the format of Figure E-2 of the Crisis Management Plan (CMP).
2. The Scheduling/Planning Support Group Manager will initiate activation of the group as described in Figure 2.
3. The group will report to its General Office Staging Area, Wachovia Center, Room 1680, unless otherwise noted on the initial callout.

#### IV. EMERGENCY FACILITIES - EQUIPMENT AND RESOURCES

##### A. Facilities

The Scheduling/Planning Support Group Manager is located in the Crisis Management Center which is defined by the location of the Recovery Manager. The Scheduling/Planning Manager will assure coverage of Room 1680, Wachovia Center as well as the Recovery Manager's facility. This allows Duke Management in the General Office a place to quickly review the situation.

The breakdown of the group for WC-1680 and the nearsite CMC will be done at the time of need.

##### B. Equipment and Resources

###### 1. Communication

Communication is by phone. See procedures 5.3.10 "Oconee Crisis Phone Directory" and 5.3.11 "McGuire Crisis Phone Directory" for listings.

###### 2. Equipment and Supplies

Status boards and 10 mile EPZ maps are stored at the Oconee and McGuire training centers and in the Wachovia Building, 16th floor. These will be used as needed.

Procedure 5.3.9, "Procedure for Transmitting and Distributing Data and Information" is to be used by the group as called for in the procedure.

V. IMPLEMENTATION OF FACILITY AND EQUIPMENT

1. The phones for WC-1680 and the nearsite CMC group locations will be installed by the Administration and Logistics group. Additional phones can be made available by contacting the Manager of Administration and Logistics.
2. Upon arrival at the nearsite CMC, assure that the Recovery Manager's office is properly set up. See Figures F-2(b) of the CMP for McGuire and F-3(b) for Ocone.

VI. LONG RANGE RECOVERY FUNCTIONS

1. As an event moves into a long-range recovery, appropriate work schedules will be developed. Group members will perform their recovery roles in this period.
2. Arrangements for food, lodging, and other services necessary for long range recovery will be made at the time.

Figure 1

Scheduling/Planning Manager and Group - Report Requirements

Planning Coordinator

Unit Status (Temp., pressure, etc.) - Both graphical and written.

Work Activity Job Requirements - (work detailed, manpower, time, etc.) Provide to S. Coordinator.

Develop overall recovery status report with the assistance of the S. Coordinator and Performance Monitors.

Prepare agenda for and keep minutes of the progress review meetings.

Scheduling Coordinator

Develop daily, two day, and long range schedules in both graphic and written form.

Detail project milestones in a separate written report.

Update schedules based on progress reports from the Performance Monitors.

Meet periodically with P. Coordinator and P. Monitors to develop concise overall recovery effort status report.

Performance Monitors

Provide the S. Coordinator a progress report on each individual event/activity.

Meet periodically with P. & S. Coordinators to develop a concise overall recovery effort status report.

Figure 2

SCHEDULING/PLANNING FUNCTION  
TELEPHONE NOTIFICATION LISTING

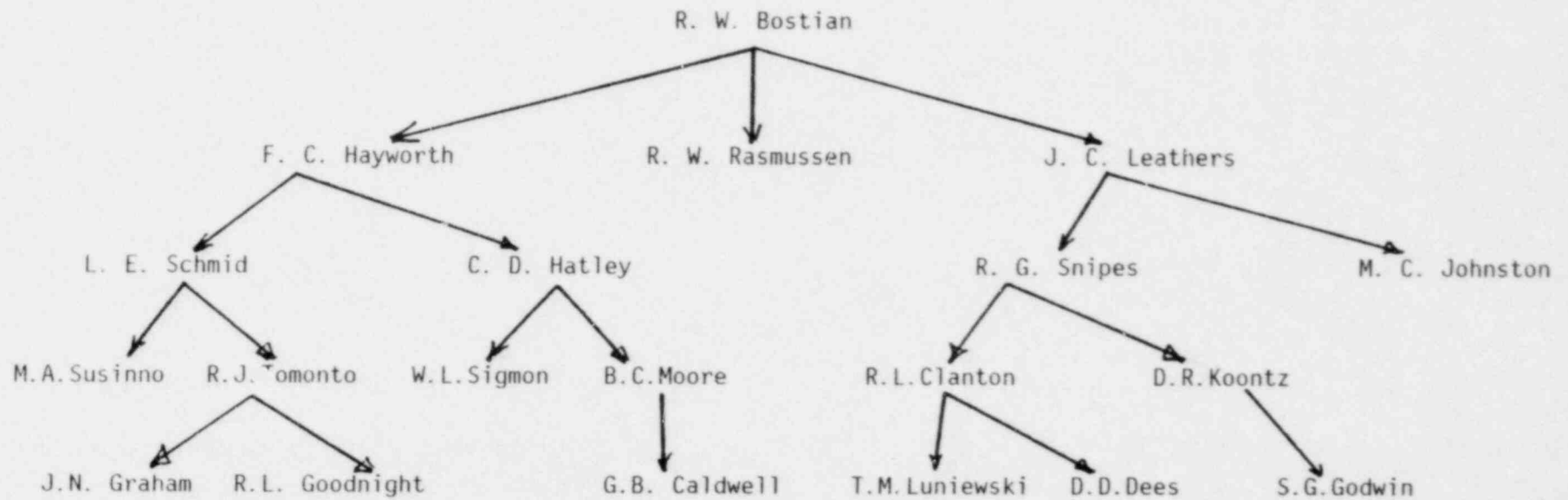




Figure 3  
SCHEDULING/PLANNING FUNCTION  
TELEPHONE DIRECTORY

<u>Name</u>	<u>Office</u>	<u>Station</u>	<u>Home</u>	<u>Secretary</u>	<u>Office</u>
<u>Scheduling/Planning Manager</u>					
R. W. Bostian	-4769			Margaret Oxley	-5822
<u>Alternates</u>					
F. C. Hayworth	-4292			Andrea Robinson	-8418
J. C. Leathers	-8292, 8284, 8235	919 427-0274		Nancy McClinton	-8292, 8284
<u>Planning Coordinator</u>					
L. E. Schmid	-8416			Andrea Robinson	-8418
<u>Alternate</u>					
B. C. Moore	-5532			Andrea Robinson	-8418
<u>Scheduling Coordinator</u>					
C. D. Hatley	-8816			Donnis W. Kimble	-8814
				Jane Y. Lowery	-2680
<u>Alternates</u>					
R. G. Snipes	-8704			Diane Harris	-8985
M. A. Susinno	-8817			Donnis Kimble	-8814
<u>Performance Monitor</u>					
M. C. Johnston	-4646	704 825-1371, 2022		Mary Stading	-4646
<u>Alternates</u>					
W. L. Sigmon	211-220 -4122	704 478-2121		Liz Mackie	211-223
G. B. Caldwell	-7059			Andrea Robinson	-8418
R. L. Clanton	-8921			Diane Harris	-8985
D. D. Dees	-7768			Diane Harris	-8985
S. G. Godwin	-5865			Irene Herrin	-6130
R. L. Goodnight	-5910			Shirley King	-7707
J. N. Graham	-5129			Shirley King	-7707
D. R. Koontz	-5197			Irene Herrin	-6130
T. M. Luniewski	-5298			Irene Herrin	-6130
R. W. Rasmussen	-5157			Diane Harris	-8985
R. J. Tomonto	-5198			Irene Herrin	-6130

Figure E-2

Crisis Management Organization  
Emergency Activation Message

This sheet is to be used by persons making notifications to other members of the Crisis Management Organization, to ensure that all pertinent information is passed on to the staff before their departure to their General Office Staging Area or Near-Site Crisis Management Center

\_\_\_\_\_  
Your name \_\_\_\_\_.

Person who contacted you \_\_\_\_\_ Your Group \_\_\_\_\_.

Persons you contacted with this message \_\_\_\_\_

\_\_\_\_\_. (If Any)

Message Format

1. I am notifying you of an incident at \_\_\_\_\_ Nuclear Station, Unit No. \_\_\_\_\_.
2. This is/is not a drill.
3. The incident occurred at \_\_\_\_\_ (hours) on \_\_/\_\_/\_\_ (Date).
4. The class of emergency at this time is: \_\_\_\_\_ Alert  
\_\_\_\_\_ Site Area Emergency \_\_\_\_\_ General Emergency
5. The initiating condition causing the emergency is as follows: \_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_
6. Release of radioactivity: \_\_\_\_ is taking place \_\_\_\_ is not taking place.
7. Corrective measures being taken at present are as follows: \_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_
8. You are to report to: \_\_\_\_\_ your G.O. staging area \_\_\_\_\_ the nearsite CMC \_\_\_\_\_ backup CMC \_\_\_\_\_ (other - specify) \_\_\_\_\_.
9. Specific Instructions (if any) \_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

When notification is complete, this sheet is to be forwarded to the Corporate Emergency Coordinator.

Crisis Management Plan

Implementing Plans

5.3.7 - Technical Support Group

Rev. 2

Revision Number

April 30, 1982

Date

### 5.3.7 - Technical Support Group

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  - H. Operations Support Coordinator
  - I. Instrument and Control Support Coordinator
- III. Technical Support Group Activation
- IV. Emergency Facilities - Equipment and Resources
- V. Implementation of Facility and Equipment
- VI. Long Range Recovery Functions
- VII. Emergency Conclusion

I. SCOPE

The Technical Support Group provides support to the Recovery Manager in matters relating to operations, maintenance, licensing, core analysis, systems analysis, instrument and electrical support, including procedure development.

## II. FUNCTIONAL RESPONSIBILITY

### A. TECHNICAL SUPPORT MANAGER

Reports To: Recovery Manager

Supervises: Technical Support Staff functions of Operations Support, I&C Support, System Analysis, Core Physics Support, Licensing Support, Procedures Support and the Data Facility.

#### Basic Functions:

He is responsible for analysis and the development of plans and procedures in direct support of Operations personnel with the objective of taking the plant to a safe shutdown condition in a manner which minimizes the effect on the health and safety of the public.

He provides a central facility for the collection, retention, retrieval, and transmitting of plant and local environmental parameters.

#### Primary Responsibilities:

1. Provide experienced licensed personnel in direct support of shift operations personnel.
2. Analyze instrument and control problems, determine alternates, develop emergency plans, design and coordinate the installation of short term instrument and control modifications.
3. Analyze problems, determine alternates, and develop emergency plans in the area of system operations.
4. Analyze conditions and develop guidance for shift operations personnel on protection of the core.
5. Develop out-of-normal operation and emergency procedures in direct support of shift operations personnel.
6. Provide a central facility for the collection, retention, retrieval, and transmitting of plant and local environmental parameters.
7. Resolve questions concerning licensing requirements with NRC representatives.

#### Principle Working Relationships:

1. Superintendent of Operations regarding implementation of emergency plans and procedures.

2. Emergency Coordinator regarding any plant manipulations that might affect off-site doses.
3. Waste Systems Radiation Control Manager regarding any plant manipulations that might affect in-plant radiation or waste inventory levels.
4. Scheduling and Planning Manager regarding planned and scheduled activities of the Technical Support Group.

B. STAFF SUPPORT

Reports To: Technical Support Manager

Supervises: N/A

Basic Functions:

Planning, scheduling, and directing internal to the Technical Support Group.

Primary Responsibilities:

Planning, scheduling and directing assignments made within the Technical Support Organization as required.

Principle Working Relationships:

1. Technical Support Manager regarding critical technical problem assignments.
2. All Technical Support Group Coordinators/Supervisors regarding planning, scheduling and directing assignments within the Technical Support Group.
3. Scheduling/Planning Manager regarding the scheduling of Emergency Response objectives within the Technical Support Group.



### C. TECHNICAL SUPPORT ADMINISTRATIVE SUPERVISOR

Reports To: Technical Support Manager

Supervises: Administrative personnel in the Technical Support Group

Basic Functions:

Supervises the Technical Support Group clerical personnel and coordinates the Technical Support Group needs for work space, communications, office supplies, personnel, office equipment, etc., with the Admin/Log. Group.

Primary Responsibilities:

1. Provides typing, filing, office equipment operation to all areas within the Technical Support Group.
2. Coordinates with the Admin/Log. Group the Technical Support Group needs for skilled support personnel to staff the various Group functions.
3. Coordinates with the Admin/Log. Group the Technical Support Group needs for additional work space, communications, equipment, office supplies, office equipment, etc.

Principle Working Relationships:

1. Technical Support Manager and all Technical Support Coordinators regarding administrative support needs and staffing needs.
2. Admin/Log. Manager regarding filling of the Technical Support Group administrative needs and staffing needs.

D. DATA COORDINATOR

Reports To: Technical Support Manager

Supervises: All Data Facility Personnel

Basic Functions:

Accumulation, retention, retrieval and retransmittal of information needed by the emergency response organization.

Primary Responsibilities:

1. Provide a central facility for the accumulation, retention, and retrieval of plant information and local environmental parameters.
2. Retransmit automatically and by request information needed by the emergency response organization.
3. Serve as a single location for the acquisition of data resulting in minimum interference with plant operations.

Principle Working Relationships:

1. Superintendent of Operations regarding acquisition of needed plant information.
2. Emergency Coordinator regarding acquisition of environmental parameters.
3. All groups requiring information regarding request for transmittal of information.

E. LICENSING SUPPORT COORDINATOR

Reports To: Technical Support Manager

Coo. d. nates: Support personnel providing ALARA review, Plant Operations review and resolution of license requirements with NRC representatives.

Basic Functions:

Resolve questions of FSAR and Technical Specifications commitments, abnormal operating modes and other license requirements with NRC representatives.

Primary Responsibilities:

1. Work with NRC representatives to resolve questions concerning FSAR and Technical Specifications commitments in light of existing plant conditions.
2. Work with NRC representatives to resolve license requirements associated with proposed abnormal operating modes or plant modifications.
3. Function as a member of the Station Review Committee.

Principle Working Relationships:

1. NRC representatives regarding all license requirement areas.
2. Superintendent of Operations and all Technical Support Coordinators regarding out-of-normal operating modes and modifications to the plant.
3. Design and Construction Support Manager regarding modifications to the plant.

## F. SYSTEMS ANALYSIS COORDINATOR

Reports To: Technical Support Manager

Coordinates: Support personnel analyzing problems and developing emergency plans in the areas of systems and equipment operations.

Basic Functions:

Analyze problems and develop emergency plans associated with the operation of plant systems and equipment.

Primary Responsibilities:

Analyze problems associated with the operations of plant systems and equipment and develop out-of normal or emergency plans for how the operations personnel can best contend with the problems.

Principle Working Relationships:

1. Operations Support Coordinator regarding systems and equipment problems that need resolution and required out-of-normal or emergency procedures.
2. Technical Support Manager and Recovery Manager regarding recommendations on how to contend with systems and equipment problems.

G. CORE PHYSICS COORDINATOR

Reports To: Technical Support Manager

Coordinates: Support personnel analyzing core parameters and development guidance for the shift operations personnel on protection of the core.

Basic Functions:

Analyze core parameters and develop guidance for the shift operations personnel on protection of the core.

Primary Responsibilities:

1. Analyze core parameters to determine current conditions of the core.
2. Review proposed plant operations with respect to the effect on core conditions.
3. Develop recommendations for plant operations that would effect safer core conditions.

Principle Working Relationships:

1. Shift Supervisor regarding approved plant operations to affect safer core conditions.
2. Technical Support Manager and Recovery Manager regarding proposed plant operations to affect safer core conditions.
3. NSSS Supplier regarding all activities.

## H. OPERATIONS SUPPORT COORDINATOR

Reports To: Technical Support Manager

Coordinates: Support personnel assigned to the plant operations group and support personnel developing procedures for operations use.

### Basic Functions:

1. Locates and schedules qualified manpower support for operations based upon needs specified by the plant and upon the actions planned by the recovery organization.
2. Assembles a procedure writing team to develop out-of-normal and emergency procedures in support of plant operations as required by the nature of the emergency.

### Primary Responsibilities:

1. Provides support to plant operations in monitoring plant parameters and analyzing plant conditions.
2. Provides support to plant operations in system valve alignment and equipment operations.
3. Acts as the point contact interface between the plant operations group and the recovery organization.
4. Provides support to plant operations as necessary to implement recovery organization objectives and collect plant information for the Data Facility.
5. Rewrite existing procedures as required to reflect accident conditions.
6. Convert plant recovery plans into clear, concise procedures for use by the plant operations group.

### Principle Working Relationships

1. Plant operations designated contact regarding the most effective utilization of support personnel and implementation of recovery plans as they impact plant operations.
2. Data Facility Coordinator regarding needs for plant information.
3. Core Physics Coordinator regarding required operating procedures to protect the core.

4. System Analysis Coordinator regarding procedures for out-of-normal system operating conditions.
5. I&C Support Coordinator regarding procedures on use of modified controls, alternate instruments and out-of-normal monitoring and control requirements.

## I. INSTRUMENT AND CONTROL SUPPORT COORDINATOR

Reports To: Technical Support Manager

Coordinates: Support personnel analyzing problems, developing emergency plans, designing and coordinating installation of modifications in the instrument and control area.

Basic Functions:

Analyze problems, determine alternates, develop emergency plans, design and coordinate the installation of modifications in the instrument and control area.

Primary Responsibilities:

1. Analyze instrument and control problems and develop plans for how the operations personnel can continue to monitor and control plant parameters.
2. Design and coordinate the installation of modifications required to allow continued monitoring and control of plant parameters.

Note: Any major design and modification work would be the responsibility of the Design and Construction Support Manager.

Principle Working Relationships:

1. Operations Coordinator regarding instrument and control problems that need resolution and required instrument and control procedure development.
2. Design and Construction Support Manager regarding major instrument and control modification work.



### III. TECHNICAL SUPPORT GROUP ACTIVATION

1. Once it has been determined that an event has degressed to an emergency situation, the Recovery Manager, or his designee, will contact the Technical Support Manager.
2. The Technical Support Manager will relay to the Administrative Supervisor the information that is noted on Figure 1.
3. The appropriate members of the group will be notified (Figure 2) and relayed the information of Figure 1 by the Administrative Supervisor.
4. Activation of the Technical Support Group will be in the Wachovia Center, Room 1760, unless otherwise noted on initial callout.

#### IV. EMERGENCY FACILITIES - EQUIPMENT AND RESOURCES

- A. Facilities - The Technical Support Manager is located in the Crisis Management Center, which is located off-site but as close to the station as practical. This center is the headquarters of the Recovery Manager and his staff and from here all emergency and recovery activities will originate. Supporting personnel for the Technical Support Group will be located in Room 1760 of the Wachovia Center in Charlotte, N. C.
- B. Equipment and Resources
1. Communication
    - a. Crisis Management Center - Redundant two-way communications with the Emergency Operation Center, the Control Room, other appropriate off-site agencies and telephone.
    - b. Alternate Crisis Management Center - Has some communications capability as described for Crisis Management Center.
    - c. Support Group Personnel at Site - Telephone connections with Crisis Management Center and Alternate Crisis Management Center, and with the station.
    - d. Personnel at Main Office - Telephone.
  2. Equipment and Supplies
    - a. Word processing equipment, i.e., typewriters, copy machine, telecopier, portable dictating machines.
    - b. System descriptions.
    - c. FSAR and Technical Specifications.
    - d. Station operating, maintenance and emergency procedures.
    - e. Drawings, i.e., P&ID, EE, general arrangement.
    - f. Organization charts for the station and general office.
  3. Personnel Resources

In addition to the primary and alternate members of the Technical Support Group, support personnel will be required depending on the accident situation. At least four secretaries/clerks will be needed for typing, making copies, etc. Two or three data runners will also be needed.

V. IMPLEMENTATION OF FACILITY AND EQUIPMENT

1. Figure 4 provides a checklist of equipment and resources to be used while the Technical Support Group is activated.
2. To establish prompt, accurate telephone communications with the other members of the Crisis Management functions; obtain two phones per checklist (Figure 4). The phones are to be plugged in Room 1760 by matching numbers on the phone with the number on the wall.
3. Additional equipment may be procured through the Administrative Supervisor.
4. Functional responsibilities for each unit in the Technical Support Group is supplied in the Crisis Management plan and in Part II of the Technical Support Group Plan.

VI. LONG-RANGE RECOVERY FUNCTIONS

1. As an event moves into a long-range recovery, appropriate work schedules will be developed, and individuals notified.
2. Figure 3 identifies supplementary telephone numbers and contacts for services.
3. Arrangments for food and services needed for long-range recovery will be handled as the need arises.

VII. EMERGENCY CONCLUSION

- A. As the plant is brought to a stable condition and it has been determined the Technical Support Group is no longer needed, the Technical Support Manager may then deactivate the group. Notifications of other groups in the Crisis Management Plan will be made as warranted.
- B. The Administrative Supervisor will assure the equipment used will be returned to its designated area.

Figure 1

Crisis Management Organization  
Emergency Activation Message

This sheet is to be used by persons making notifications to other members of the Crisis Management Organization, to ensure that all pertinent information is passed on to the staff before their departure to their General Office Staging Area or Near-Site Crisis Management Center.

\_\_\_\_\_  
Your name \_\_\_\_\_.

Person who contacted you \_\_\_\_\_ Your Group \_\_\_\_\_.

Persons you contacted with this message \_\_\_\_\_

\_\_\_\_\_. (If Any)

Message Format

1. I am notifying you of an incident at \_\_\_\_\_ Nuclear Station, Unit No. \_\_\_\_\_.
2. This is/is not a drill.
3. The incident occurred at \_\_\_\_\_ (hours) on \_\_\_\_/\_\_\_\_/\_\_\_\_ (Date).
4. The class of emergency at this time is: \_\_\_\_\_ Alert  
\_\_\_\_\_ Site Area Emergency \_\_\_\_\_ General Emergency
5. The initiating condition causing the emergency is as follows \_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_
6. Release of radioactivity: \_\_\_\_\_ is taking place \_\_\_\_\_ is not taking place.
7. Corrective measures being taken at present are as follows: \_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_
8. You are to report to: \_\_\_\_\_ your G.O. staging area \_\_\_\_\_ the nearsite CMC \_\_\_\_\_ (other - specify) \_\_\_\_\_
9. Specific Instructions (if any) \_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

When notification is complete, this sheet is to be forwarded to the Corporate Emergency Coordinator.

Figure 2

TECHNICAL SUPPORT GROUP  
Telephone List

<u>Position</u>	<u>Name</u>	<u>Office</u>	<u>Home</u>
Manager	K. S. Canady	4712	
	W. A. Coley	4436	
	H. T. Snead	4038	
Administrative Supervisor	J. W. Simmons	5781	
	J. A. Reavis	8552	
Data Facility Supervisor	C. A. Little	8761	
	R. C. Pacetti	8412	
	G. C. Rogers	6140	
	M. F. Simpson	5757	
Licensing Support Coordinator	N. A. Rutherford	4961	
	R. L. Gill (Ocone)	5826	
	G. A. Copp	4060	
System Analysis Coordinator	P. M. Abraham	4520	
	S. D. Alexander	8885	
	D. L. Canup (McGuire)	4201	
	R. M. Gribble	6160	
	R. L. Weber	4130	
Core Physics Coordinator	R. H. Clark	5823	
	W. R. McCollum	5298	
	S. W. Brown	7499	
	G. P. Horne	6064	
	R. P. Wood	5868	
	J. L. Eller	8417	
I&C Support Coordinator	R. L. Brown	8257	
	J. W. Jones	8231	
	J. O. Crowe	4055	
	R. C. Collins	8049	
Operational Support Coordinator	E. M. Geddie	8365	
	J. S. Warren	5782	
	M. J. Gavioli	5785	
	R. O. Sharpe	8466	
Staff Support	D. W. Weaver	4581	
	R. D. Groux	8085	

Figure 2

TECHNICAL SUPPORT GROUP  
Telephone List

<u>Position</u>	<u>Name</u>	<u>Office</u>	<u>Home</u>
Technical Support Group Emergency Phones (WC-1760)		5177 5235 5236	
HP Radwaste (WC-2390)		7790	
Design Construction (EC3-32)		4662 5304 5305	
Recovery Manager (WC-1680)		5731	
Scheduling/Planning (WC-1680)		7949, 5743, 7951	
Offsite Radiological Coordinator		7940	



Figure 3

LONG RANGE RECOVERY SUPPORT

<u>Data Coordinator</u>	<u>Office</u>	<u>Home</u>
R. David Deese	7648	
J. W. Zweig	8997	
Sarah Lee	5786	
 <u>System Analysis</u>		
G. B. Swindlehurst	5176	
S. R. Lewis	8285	
Bob Breen (NSAC)	415-855-2097	
Fred Burke (B&W)	804-385-2308	
R. S. Hubbard (W)	412-373-5673	
 <u>I&amp;C</u>		
M. B. Laney (McGuire)	8775	
J. E. Cole (Ocone)	8797	
 <u>Licensing</u>		
I. Ratsep (W)	412-373-4369	
F. Burke (B&W)	804-385-2308	

Figure 4

TECHNICAL SUPPORT GROUP  
Equipment Location Checklist

	<u>Oconee</u>	<u>McGuire</u>	<u>Catawba</u>
_____ FSAR	Room 1765	Room 1761	Room 1753
_____ Technical Specification	Room 1765	Room 1761	Room 1753
_____ P. O. Drawing	Room 1746	Room 1746	Room 1746
_____ Station Directives	Room 1733	Room 1733	Room 1733
_____ Station Organization	Room 1743	Room 1743	Room 1743
_____ Electrical Elementary	Room 1746	Room 1746	Room 1746
_____ Instrument Detail			
_____ Steam Table	Room 1743	Room 1743	Room 1743
_____ System Description	Room 1746	Room 1746	Room 1746
_____ Emergency Phones	Room 1743	Room 1743	Room 1743
_____ Computer Terminals	Room 1741	Room 1741	Room 1741
_____ Stationery Supplies	Room 1746, Plus Storeroom on 15th Floor		
_____ Copy Room	Room 1746, Print Shop, Reproduction		

Items on this list are identified in each room by a tag attached to each item or drawer where it is stored.

Location Checklist

Health Physics	Wachovia Center	Room 2390
Design and Construction	Electric Center	Room 3-32
Administration and Logistics	Wachovia Center	Room 1514
Offsite Radiological Coordinator	Wachovia Center	Room 2384
Recovery Manager	Wachovia Center	Room 1680



CRISIS MANAGEMENT PLAN

IMPLEMENTING PLANS

5.3.8 - Offsite Radiological Coordination Group

Rev. 3  
Revision Number

April 30, 1982  
Date

### 5.3.8 - Offsite Radiological Coordination Group

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## I. SCOPE

The Off-Site Radiological Coordination Group is responsible for determining projected and actual doses to the public, as well as the environmental dose-rate and contamination conditions off-site after an accident involving, or potentially involving, a significant release of radioactive material. Based on the Group's measurements, correlations with local, state, and federal agency measurements, and dose projections, the Group is primarily responsible for advising the Recovery Manager with regard to off-site radiological conditions and for recommending appropriate protective action in accordance with previously agreed upon Emergency Action Levels, to maintain doses to the public, offsite, ALARA.

## II. FUNCTIONAL RESPONSIBILITIES

The following describes the functional responsibilities of the ORC staff. Table 1 describes the group organization.

### A. Off-Site Radiological Coordinator

Reports to: Recovery Manager

Supervises: Off-Site Radiological Coordination Staff

Basic Function:

Defines, directs, and coordinates efforts of staff, coordinates with State and local emergency control centers, and advises Recovery Manager with regard to off-site radiological conditions and need for emergency action offsite. Located at Crisis Management Center.

Primary Responsibilities:

1. Direct the activities of the Off-Site Radiological Coordination staff in the development of field monitoring strategies, sample collection and analyses requirements, dose projections, and protection recommendations.
2. Assure adequate staffing and resources to provide necessary support to Recovery Manager in off-site radiological matters.
3. Review staff results and recommendations and draw conclusions concerning off-site radiological conditions.
4. Advise Recovery Manager of existing and potential radiological conditions and recommend protective measures.

Principal Working Relationships:

1. Station Emergency Coordinator/Health Physics/Radwaste Manager regarding status of defacto and potential releases, radiation levels, and plant status.
2. State and local emergency response centers.
3. Crisis News Director regarding off-site radiological information for public dissemination.

4. Administration and Logistics Manager regarding personnel, equipment, and supplies procurement.
5. Scheduling/Planning Manager regarding coordination of plans and schedules of the Group with other functional groups.
6. NRC Advisory Support regarding off-site conditions.
7. Arrange for radiological surveillance by airborne monitoring teams.

B. Field Monitoring Coordinator

Reports to: Off-Site Radiological Coordinator

Supervises: Field Monitoring Crews

Basic Functions:

Directs efforts of crews to obtain required field measurements and environmental samples. Advises Off-Site Radiological Coordinator of results of field measurements. Located in Crisis Management Center and may travel to field or off-site analytical laboratory.

Primary Responsibilities:

1. Direct the activities of the field monitoring crews; implement monitoring strategies and sample collection requirements.
2. Assure adequate staffing and resources for field crews.
3. Review and compile field monitoring results and advise Off-Site Radiological Coordinator.

Principal Working Relationships:

1. Laboratory Analyses Coordinator regarding sample collection for analyses.
2. Dose Assessment Coordinator regarding monitoring results used to calculate doses and develop distribution maps.

NOTE: See appended field monitoring procedures for Oconee and for McGuire Nuclear Station.



C. Laboratory Analyses Coordinator

Reports to: Off-Site Radiological Coordinator

Supervises: Laboratory Technicians (2 people)

Basic Function:

Directs the efforts of the laboratory staff to assure quality of and expedite sample analyses. Advises Dose Assessment Coordinator (primarily) and Off-Site Radiological Coordinator (secondarily) of results of laboratory analyses. Located at off-site analytical laboratory. In telephone or radio contact with Crisis Management Center.

Primary Responsibilities:

1. Direct the activities of the laboratory staff; assure implementation of analytical requirements.
2. Assure adequate staffing and resources for laboratory.
3. Review and compile laboratory results and advise Dose Assessment Coordinator (primarily) and Off-Site Radiological Coordinator (secondarily).

Principal Working Relationships:

1. Field Monitoring Coordinator regarding sample collection for analyses.
2. Dose Assessment Coordinator regarding laboratory results used to calculate doses and develop distribution maps.

Lab Analysis Group Operations:

The Laboratory Analyses Coordinator (LAC) will direct and coordinate the Environmental Radiological Laboratory (ERL), which will participate in the Crisis Management Plan by analyzing environmental samples for their radioactive content. The results of the analysis will indicate the quantity of radioactivity present in the sample by radionuclides and/or by gross alpha beta activity. As these results are obtained, they will be transmitted (by telephone or radio) to the Off-Site Radiological Coordinator and Dose Assessment Coordinator for use in determining the status of the environment.

In the event of an accident, the ERL would go to a 24-hour per day operation. There would be two 12-hour shifts with each shift manned by the LAC or his alternate, one of the two technicians regularly assigned to the ERL, and one additional technician supplied by the Environmental Chemistry Group. This setup would assure smooth and continuous operation of the ERL. There would also be alternate technicians available (from the Chemistry Group) if the need arises.

The ERL would receive its samples from the Field Monitoring Teams, either by company mail for low priority samples or by a courier dispatched to deliver high priority samples. The Field Monitoring Coordinator would have the responsibility of getting the samples to the ERL. Some of the sample types which could be received are ground water, surface water, drinking water, air particulate filters and iodine cartridges, vegetation, soil and milk. All liquid samples should be at least one gallon. Air volumes or meter readings off the air sampler should be included with any air filter/cartridge samples. Vegetation samples should contain approximately one kilogram (2 lb.) of vegetation. Soil samples should be able to fill a one liter bottle. All samples should be well labeled as to the collection, location, and time.

All samples received by the ERL will be gamma scanned using the Nuclear Data 6620 and GeLi detectors. High priority samples would be counted first depending on the urgency. Counting times for the gamma scan would vary according to the sample volume and its radiation level. The counting time for a sample could be as low as 10 minutes for a sample with a large volume and high activity in respect to natural radiation, to a couple of hours for a sample with a small volume and relatively low activity. Most samples can be gamma scanned without any special preparations. All that is required to transfer the sample to the proper counting configuration and follow the steps in procedure ER/O/B/4100/04 (Operation of the Nuclear Data 6600 Computer-Based Gamma Analysis System) in the control procedures for the ERL.

The gamma results, printed out by the Nuclear Data System, would indicate the quantity of each gamma emitting radionuclide present in the sample. These results could then be forwarded to the ORC or QAC.

Some samples would require gross alpha/beta and/or low level iodine analysis. These samples would have

to be prepared for counting according to the procedures in the "Radiological Lab Procedure Manual". All samples which require alpha/beta analysis will be counted on the alpha/beta counter. From the time the sample is received to the time the results could be obtained would require 8 to 20 hours, depending on the type of preparation needed for the sample.

A final report would be printed for each sample which would include sample location, sample type, collection date, all activities of the radionuclides present and the results of any special analysis performed on the sample. The original report will be kept on file at the ERL and a copy will be sent to the ORC for his use.

D. Dose Assessment Coordinator

Reports to: Off-Site Coordinator

Supervises: One Technician

Basic Function:

Performs required dose calculations under direction of ORC and develops radioactive material (contamination) distribution maps. Advises Off-Site Radiological Coordinator of results. Located at the Crisis Management Center.

Primary Responsibilities:

1. Directs the efforts of one technician who assists in performance of calculations, runs computer programs, and plots charts and maps.
2. Computes doses based on release data, meteorology, monitoring results, and analytical results using dose calculation models.
3. Reviews and compiles results into a concise form and advises Off-Site Radiological Coordinator.

Principal Working Relationships:

1. Field Monitoring Coordinator regarding monitoring results.
2. Laboratory Analyses Coordinator regarding laboratory results.

3. General Office Meteorology Group regarding meteorological consultation and forecasts.
4. Design Engineering Radiation Analysis Group regarding dose calculation consultation.

General Description of Dose Assessment Group Operations:

A. Nature & Scope

The Dose Assessment Coordinator and his assistant will be located at the Crisis Management Center (CMC) during the accident. His primary responsibility is to advise the Off-Site Radiological Coordinator of the doses to the population in the vicinity of the station during an accident. The Dose Assessment coordinator calculates the doses based on release data, meteorology, monitoring results and analytical results using dose calculation models.

B. Principal Working Relationships

In addition to reporting directly to the Off-Site Radiological Coordinator, the Dose Assessment Coordinator must interact with other groups to obtain the information he needs to perform his job. The four principal groups he will be interacting with during the emergency situation are the Field Monitoring Coordinator, the Laboratory Analyses Coordinator, the General Office Meteorology Group and the Design Engineering Radiation Analysis Group. From the Field Monitoring Coordinator, he will gather results of direct field radiation measurements being made during the emergency. The Laboratory Analysis Coordinator will provide him with all laboratory results. The Dose Assessment Coordinator will use the field measurements and laboratory results to confirm his dose calculations. The G.O. Groups (Meteorology and Design Engineering Radiation Analysis Groups) will be available for consultation as needed.

Emergency Actions and Response

A. Notification of Personnel

In the event of a crisis, the following person will serve as the Dose Assessment Coordinator

regardless of which station the accident occurs at.

PRIMARY: R. E. Sorber  
WORK LOCATION: G.O.  
HOME PHONE: (704)366-1215  
OFFICE PHONE: (704)373-5847

If the primary cannot be reached either at his office or at home if the emergency occurs after regular working hours, then the following people serve as alternates:

<u>ALTERNATES</u>	<u>LOCATION</u>	<u>HOME PHONE</u>	<u>OFFICE PHONE/EXTENSION</u>
C. Harlin	ONS		(803)882-5363 - (1138)
G. Hudson	G.O.		(704)373-5003
R. Delonis	MNS		(704)875-1357 - (4435)

If the accident occurs after regular working hours, it is recommended that the ONS representative be contacted if the accident occurs at ONS. Similarly, if the accident occurs at MNS, then the MNS representative should be called. These people live closer to their respective stations and can be at the CMC faster than the others.

If the accident occurs at ONS and the ONS alternate cannot be reached, then anyone of the other three alternates can be called since they all live at approximately the same distance from ONS. However, it is recommended that if the emergency is at MNS and the MNS alternate cannot be reached, the G.O. alternates should be called because they live closer to MNS. Regardless of the situation or where it occurs, the primary will be called before any of the alternates are notified.

The Dose Assessment Coordinator will need at least one technician to help him with his responsibilities. (NOTE: It is the responsibility of the Dose Assessment Coordinator to obtain these technicians and put their names on the call list. LL) The Dose Assessment Coordinator may call some of his alternates to assist him at the CMC if technicians are not available at the time of the accident.

The list of primaries, alternates, and technicians should be updated at least once every six months to keep the telephone and location information as current as possible.

B. Dose Assessment Coordinator's Arrival at CMC  
(Initial Evaluation)

It is expected that the initial evaluation of the magnitude of the release and the dose projections will be performed by station personnel.

As soon as the Dose Assessment Coordinator arrives, he should establish contact with the Off-Site Radiological Coordinator and with the other groups with whom he will be closely interacting to inform them of his arrival. He then should review the available information with the Acting Dose Assessment Coordinator.

As part of his initial evaluation of the accident, the Dose Assessment Coordinator should review the following information:

1. Date and time of accident
2. Class of emergency
3. Type of actual release (i.e., airborne, waterborne, surface spill) and estimated duration time
4. Estimate of quantity released or being released and height of release
5. Isotopic composition of material and relative quantities (i.e., noble gases, iodines and particulates)
6. Prevailing weather (i.e., wind velocity, direction, temperature, atmospheric stability data form of precipitation, if any)
7. Calculated dose rates and integrated doses from release
8. Estimate of any surface contamination
9. Emergency response actions underway (e.g., evacuation)
10. Recommended emergency actions including protective measures
11. Prognosis for worsening or termination of event based on plant information.

The initial review of the situation should be performed as quickly and efficiently as possible. After the initial review, the Dose Assessment Coordinator will be ready to assume his responsibilities and can take over the dose assessment role.

Table 5 will be updated every 30 to 60 minutes and provided to the ORC and the Scheduling/Planning Manager.



### C. Dose Evaluation and Confirmatory Measurements

Once the Dose Assessment coordinator assumes his role, he will calculate the doses to the population in the vicinity of the station using the dose isopleths, release data and meteorology data. He will also use the field measurements to confirm his dose calculations. The method of dose assessment can be generally described in the following steps:

1. From the meteorological data available, choose proper overlays and sector.
2. Using release rate data, calculate doses and plot on maps.
3. Keep Off-site Radiological Coordinator informed and up-to-the minute on all dose estimates.
4. Follow up dose estimates with environmental measurements.

All projected environmental doses/rates should have follow up field measurements made to confirm. Hence, extensive field measurements should be made continuously during the entire course of the emergency.

During the first several hours of the accident, it is expected that the Dose Assessment Coordinator (and his alternates) will work 12-hour workshifts until the emergency is under full control and the accident does not pose a threat to the population.

### E. Special Assistance Coordinator

#### Functional Responsibilities:

##### Location/Background Requirements/Basic Function -

The Special Assistance Coordinator will be located in the Crisis Management Center with the Off-Site Radiological Coordination Group.

The person filling this description shall have a solid Health Physics background, and be knowledgeable of the site location, personnel and surrounding area.

The basic function of the Special Assistance Coordinator will be to assist the Off-Site Radiological Coordinator (ORC) as an individual contributor on any matter which the ORC cannot handle due to priorities.

Responsibilities -

1. Assist the ORC through coordination with other groups to handle administrative task and technical needs. This could include such items as --
  - a) berthing, messing of ORC Group personnel
  - b) procurement of consumable supplies
  - c) arranging assistance/alteration for maintenance of equipment or facilities
  - d) coordination of off-site dose information with Crisis News Director.
2. Maintain contact with federal and state agencies (e.g., BRH-S.C., RPS-N.C., NRC, EPA, etc.) on environmental matters. Update State and Counties periodically (approx. 30 to 60 minutes) on the preformatted message sheet.
3. Be familiar with site facilities including location of CMC and ORC facilities.
4. Assure phones, furniture, necessary drawings, etc. are available on-site for ORC in case of emergency.
5. Be familiar with the local nuclear station environs, civil defense personnel, and established communications networks.
6. Respond to material/supply requirements for ORC group members that they are not responsible for providing in case of an emergency.
7. Work closely with ORC to assure smooth functioning of ORC Group on 24-hour basis.
8. Attend meetings for ORC which he cannot attend and be prepared to respond to needs of requirements requested of ORC Group.
9. Work on special projects assigned by ORC.
10. Perform other functions as assigned by ORC.

F. Radio Operator

Reports to: Field Monitoring Coordinator

Supervises: N/A

Function/Responsibilities:

This position provides radio communication support for the Off-Site Radiological Coordinator and his staff in the field and with supporting agencies.



G. Local Agency Liaison

Reports to: Off-Site Radiological Coordinator

Basic Function:

Serves as company representative first at local Emergency Operations Center and then at State center, as required.

Primary Responsibilities:

1. Provides answers to local/state EOC staff regarding company-related questions.
2. Interprets information sent to EOC from Crisis Management Center.
3. Keeps ORC informed on EOC actions.

Principal Working Relationships:

1. State EOC staff regarding questions and information.
2. County EOC staff and agencies regarding questions and information.

### III. OFFSITE RADIOLOGICAL COORDINATION GROUP ACTIVATION

1. Once it has been determined that an event has degressed to an emergency situation, the Recovery Manager, or his designee, will contact the Off-Site Radiological Coordinator. If the primary Coordinator is not available, an alternate will be called.
2. The Off-Site Radiological Coordinator contacted will call the other alternate ORC's and will notify those coordinators as shown in Table 2. The coordinators will contact their alternates and technicians as shown in Figure 2.
3. Table 3 will be used to relay the emergency information. Information on this form will direct each individual to their duty station. It is the responsibility of the Offsite Radiological Coordinator to direct his group's response appropriate to the incident.
4. Table 4 lists the work and home telephone numbers of each group member. This list is to be updated quarterly and the revised numbers forwarded to the Emergency Response Coordinator.
5. Activation of the ORC group will be in room 2384 of the Wachovia Center, at the Oconee or McGuire Training Centers, or the Liberty, South Carolina retail office depending upon the incident and the needs of the Recovery Manager.

#### IV. FACILITIES, EQUIPMENT, AND RESOURCES

The following equipment and decisional aids designated for use by the group are stored at the Crisis Management Center location as noted and inventoried on a quarterly basis beginning in the second quarter of 1982.

Oconee CMC

McGuire CMC

Oconee Backup CMC

G.O. Response Location WC-2384



V. LONG RANGE RECOVERY FUNCTIONS

The Offsite Radiological Coordination Group's function in a long range recovery action following an incident is to combine with the Health Physics/Radwaste Group and support the Recovery effort as needed.

## VI. PROCEDURE REFERENCE

The following procedures are carried out by the referenced coordinators during an incident:

### Special Assistance Coordinator

- 5.3.12 - "Initial and Followup Emergency Messages - Oconee"
- 5.3.13 - "Initial and Followup Emergency Messages - McGuire"

### Field Monitoring Coordinator

- 5.3.14 - "Crisis Management Center Environmental Monitoring For Emergency Conditions Within The Ten Mile Radius of McGuire Nuclear Station"
- 5.3.15 - "Crisis Management Procedure - Environmental Monitoring - Oconee Nuclear Station"

### Dose Assessment Coordinator

To Be Developed/Included Later

Table 1

OFF-SITE RADIOLOGICAL  
COORDINATOR (ORC)

SECRETARY

FIELD  
MONITORING  
COORDINATOR

(FMC)

LABORATORY  
ANALYSES  
COORDINATOR

(LAC)

DOSE  
ASSESSMENT  
COORDINATOR

(DAC)

SPECIAL  
ASSISTANCE  
COORDINATOR

(SAC)

LOCAL  
AGENCY  
LIAISON

(LAL)

RADIO OPERATOR

AT LEAST  
3 MONITORING  
TEAMS OF 2;  
1 AIRBORNE  
MONITOR

2  
TECHNICIANS

1 TECHNICIAN

NOTE: Alternates are also appointed to the above positions for relief and for 24 hour coverage.

L. LEWIS

Offsite Radiological Coordinator

W. P. DEAL

M. S. TUCKMAN

J. J. SEVIC - OCONEE  
OR J. R. LEONARD - MCGUIRE  
(FIELD MONITORING COORD.)

J. S. ISAACSON  
(LAB ANALYSIS COORD.)

R. E. SORBER  
DOSE ASSESSMENT  
COORDINATOR

J. W. COX  
SPECIAL ASSISTANCE  
COORDINATOR

G. MODE - MCGUIRE  
(ALT. FIELD MONITORING COORD.)

CHARLES WRAY - OCONEE  
(ALT. LAB ANAL. COORD.)

C. HARLIN - OCONEE  
(ALT. DAC)

R. N. MACK  
(ALT. SAC)

J. R. LEONARD - OCONEE  
(ALT. FIELD MONITORING COORD.)

R. J. GRUNDSTROM - MCGUIRE  
(ALT. LAB ANAL. COORD.)

G. HUDSON  
(ALT. DAC)

R. H. CHAREST  
(ALT. SAC)

R. J. Delonis  
ALT. DAC-MCG

H. D. Brewer  
ALT. DAC

R. D. Kinard  
ALT. DAC

G. Courtenay  
ALT. DAC

MONITORING TEAMS  
PER PROCEDURE

P. N. MCNAMARA  
(RADIO OPERATOR)

R. N. CASLER  
(LOCAL AGENCY LIAISON)

D. E. SEXTON  
(ALT. RADIO OPERATOR)

C. A. MAJURE  
(ALT. LAL)

R. E. HARRIS  
(ALT. LAL)

\* G. L. MITCHELL  
(ALT. LAL)

Table 2



Table 3

Crisis Management Organization  
Emergency Activation Message

This sheet is to be used by persons making notifications to other members of the Crisis Management Organization, to ensure that all pertinent information is passed on to the staff before their departure to their General Office Staging Area or Near-Site Crisis Management Center.

Your name \_\_\_\_\_.

Person who contacted you \_\_\_\_\_ Your Group \_\_\_\_\_.

Persons you contacted with this message \_\_\_\_\_  
\_\_\_\_\_. (If Any)

Message Format

1. I am notifying you of an incident at \_\_\_\_\_ Nuclear Station, Unit No. \_\_\_\_\_.
2. This is/is not a drill.
3. The incident occurred at \_\_\_\_\_ (hours) on \_\_\_\_/\_\_\_\_/\_\_\_\_ (Date).
4. The class of emergency at this time is: \_\_\_\_\_ Alert  
\_\_\_\_\_ Site Area Emergency \_\_\_\_\_ General Emergency
5. The initiating condition causing the emergency is as follows: \_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_
6. Release of radioactivity: \_\_\_\_ is taking place \_\_\_\_ is not taking place.
7. Corrective measures being taken at present are as follows: \_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_
8. You are to report to: \_\_\_\_\_ your G.O. staging area \_\_\_\_\_ the nearsite CMC \_\_\_\_\_ backup CMC \_\_\_\_\_ (other - specify) \_\_\_\_\_
9. Specific Instructions (if any) \_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

When notification is complete, this sheet is to be forwarded to the Corporate Emergency Coordinator.

Table 4

The following is a list of personnel designated to fill the positions in the ORC organization:

<u>Title/Names</u>	<u>Telephone Number</u>	
	<u>Home</u>	<u>Business-(Ext.)</u>
Off-Site Radiological Coordinator		
Primary: L. Lewis		704/373-4341
Alternates: W. P. Deal		803/831-2282 (2392)
M. S. Tuckman		803/831-2282 (2303)
Field Monitoring Coordinator		
Primary: J. J. Sevic (Oconee)		803/882-5363 (1417)
J. R. Leonard (McGuire)		704/875-1357 (4444)
Alternates: G. Mode		803/831-2282 (2398)
J. R. Leonard (Oconee)		704/875-1357 (4444)
J. J. Sevic (McGuire)		803/882-5363 (1417)
Laboratory Analyses Coordinator		
Primary: J. S. Isaacson		704/875-1971 (236)
Alternates: C. V. Wray		803/831-2282 (2406)
Technicians: B. A. Broadway		704/875-1971 (232)
C. W. Kinsey		704/875-1971 (232)
Dose Assessment Coordinator		
Primary: R. E. Sorber		704/373-5847
Alternates: D. J. Berkshire (McGuire)		803/882-5363 (1207)
H. D. Brewer		704/373-7409
G. L. Courtney		803/831-2282 (2357)
S. A. Coy (McGuire)		803/882-5363 (1538)
R. J. Delonis (Oconee)		704/875-1357 (4435)
C. L. Harlin (McGuire)		803/882-5363 (1129)
F. G. Hudson		704/373-5003
R. D. Kinard		803/831-2282 (2357)
Consultants: S. T. Apple		704/373-4641
M. A. Casper		704/373-8331
Special Assistance Coordinator		
Primary: J. W. Cox		803/831-2282 (2397)
Alternates: F. N. Mack		803/831-2282 (2417)
P. N. McNamara		803/831-2282 (2449)

Table 4 (continued)

<u>Title/Names</u>	<u>Telephone Number</u>	
	<u>Home</u>	<u>Business-(Ext.)</u>
Radio Operator		
Primary: P. N. McNamara		803/831-2282 (2357)
Alternates: D. E. Sexton		803/831-2282 (2364)
P. W. Sturgis		803/831-2282 (2406)
F. D. Theriault		803/831-2282 (2280)
C. M. Moses		803/831-2282 (2364)
Local Agency Liaison		
Primary: R. N. Casler		803/831-2282 (2418)
Alternates: C. A. Majure		704/875-1686 (138)
R. E. Harris		704/373-8771
G. L. Mitchell		803/831-2282 (2290)
SERT (State Emergency Response Team)		919/733-4283 (Raleigh)
		704/875-6238 (Charlotte)
Civil Air Patrol (111th Air Rescue Squad)		
Lt. Eric Karnes		704/333-1305
Lt. Eric Karnes (ALERT-BEEPER)		704/376-9500
Airport		704/399-7843
WATS Operator		9-373-4011
REACTS		
Karl Hubner		615/576-3098
To obtain helicopter(s) for emergency service contact:		
1. W. M. Yelton		704/331-4168
2. L. W. Johnson		704/331-4172
3. L. M. Whisonant		704/331-4173
4. E. B. Shuler		704/331-4163

These contacts are in Duke Power Company Transmission Department, Line Division.

DUKE POWER COMPANY  
CRISIS MANAGEMENT PLAN  
RADIOLOGICAL DATA SHEET

Station \_\_\_\_\_  
Unit \_\_\_\_\_

Table 5

RADIOLOGICAL CONDITIONS

Date/ Time	RX BLDG DOSE (rem)	(Design Leak Rate) OFFSITE DOSE (rem)				(Containment Failure) OFFSITE DOSE (rem)			
		1 mi.	3 mi.	5 mi.	10 mi.	1 mi.	3 mi.	5 mi.	10 mi.

RADIOLOGICAL RECOMMENDATIONS

Date/ Time	SECTORS in Exposure Pathway	State/County Contacted	Statement of Recommendation*

\*Must state either (1) NONE, (2) (Precautionary) Evacuation of \_\_\_\_\_ miles radius  
and/or \_\_\_\_\_ miles in \_\_\_\_\_ direction involving \_\_\_\_\_ sector, other  
recommendations \_\_\_\_\_

Approved By: \_\_\_\_\_

DUKE POWER COMPANY  
CRISIS MANAGEMENT PLAN  
IMPLEMENTING PROCEDURE 5.3.9  
PROCEDURE FOR TRANSMITTING AND DISTRIBUTING DATA AND INFORMATION

Crisis Management Plan  
Implementing Procedure 5.3.9

Procedure For Transmitting and Distributing Data and Information

1.0 PURPOSE

This procedure addresses the production and transmission of reports, information and/or recommendations between individuals involved in crisis management activities.

2.0 REFERENCES

2.1 Crisis Management Plan

2.2 Crisis Management Plan - Implementing Plans (5.3.1 - 5.3.8)

3.0 DOCUMENTS - DATA TRANSMITTAL

The following reports have been produced to facilitate the transmittal of data between groups involved in Crisis Management activities.

3.1 Plant Data and Status Information (Figures I-1 and I-2)

Figure I-1 and I-2 is to be utilized to transmit operating data and status information from station operations to the Crisis Management team. Forms for each station are attached. (See Figure I-1 for Oconee Nuclear Station, Figure I-2 for McGuire Nuclear Station).

This report is transmitted from the station to the Technical Support Group at nominal intervals of one half hour. This interval may be increased or decreased as circumstances dictate. A request for a change in interval will be through the Emergency Coordinator/Recovery Manager contact.

The Technical Support Group will be responsible for transmitting copies of the data sheets to each group or individual on the distribution list shown in Figure I-3.

3.2 Radiological Data Sheet (Figure I-4)

This data sheet is to be utilized to transmit radiological data and recommendations from the CMC Offsite Radiological Coordination Group (ORCG) to the Recovery Manager. The ORCG will obtain necessary data from the Technical Support Group and originate and distribute the Radiological Data Sheet. A generic form for all stations is attached. (See Figure I-4)

The Recovery Manager may request periodic distribution/development of this Data Sheet depending upon plant conditions.

The ORCG shall be responsible for transmitting copies of the data sheets to each group on the distribution list shown in Figure I-3.

### 3.3 Other Reports

In the event data necessary to the analysis of a particular situation is not included in formal data sheets, the Station will produce appropriate data sheets utilizing the form provided in Figure I-5. The data sheets may be handwritten but should be consistent in the data transmitted and the format utilized.

This data sheet should also be transmitted to the Technical Support Group. Caution should be taken to assure the following:

- a) Estimates or unconfirmed data should be labeled as such.
- b) Gaps in the transmittal of certain pieces of data should be explained i.e., note that data is not available, unchanged or no longer necessary.
- c) Data sheets should be signed by originator.

In the event that a group participating in Crisis Management planning requires additional data from the station, that group shall, with the consent of the Recovery Manager, request of the Technical Support Group that the necessary information be transmitted on Figure I-5. The Technical Support Group will facilitate the data transfer.

## 4.0 DOCUMENTS-MESSAGES/RECOMMENDATIONS

Figure I-6 provides a memorandum sheet which should be utilized for messages between groups. This will provide documentation on situation review/analysis.

## 5.0 DOCUMENTS-RECOVERY ACTIVITIES

The following documents have been prepared to facilitate communications between crisis management groups involved in activities after termination of the emergency condition.

### 5.1 Work Activity Job Requirement Requests

This form should be utilized to request scheduling of work activities. Each Crisis Management Group which is assigned lead responsibility for a particular work activity should fill out this form and submit to the Scheduling and Planning Group. The work activity will then be placed into the Crisis Management work schedule. See Figure I-7.

### 5.2 Performance Monitor Work Activity Status Report

This report should be utilized to update the status of work activities. The report should be filled out and submitted to the



Scheduling and Planning Group at least once daily by a designated individual in the Crisis Management Group with lead responsibility for the work activity. See Figure I-8.

### 5.3 Work Schedules

Figure I-9, I-10, and I-11 are examples of the work schedules which shall be provided by the Scheduling and Planning Group to the Recovery Manager. A daily, two day and long term work schedule shall be utilized as needed. The Scheduling and Planning Group shall be responsible for distributing these schedules to the groups listed on the distribution list. See Figure I-3.

### 5.4 Project Milestones and Progress Report

These two reports, Figures I-12 and I-13 shall be utilized by the Scheduling and Planning Group to report the overall status and progress of the work activities necessary to mitigate and recover from the emergency situation. These reports shall be submitted to the Recovery Manager on a daily basis at minimum. The Scheduling and Planning Group shall be responsible for distributing these reports to the groups listed in Figure I-3.

## 6.0 DOCUMENTS-SHIFT MANNING

Figure I-14 shall be utilized by each group to report to the Scheduling and Planning Group the provisions made for manning the crisis management groups on a 24-hour basis. The report should be submitted on a daily basis.



PLANT STATUS (circle)  
Unusual Event - Alert

OCONEE NUCLEAR STATION  
PLANT DATA AND STATUS  
INFORMATION  
Figure I-1

Unit 1 2 3  
Date \_\_\_\_\_  
Time \_\_\_\_\_

1. PRIMARY COOLANT SYSTTEM

- a. T/Hot - Loop A \_\_\_\_\_ °F
- b. T/Hot - Loop B \_\_\_\_\_ °F
- c. T/Cold - Loop A1 \_\_\_\_\_ °F
- d. T/Cold - Loop A2 \_\_\_\_\_ °F
- e. T/Cold - Loop B1 \_\_\_\_\_ °F
- f. T/Cold - Loop B2 \_\_\_\_\_ °F
- g. RC System Press. \_\_\_\_\_ PSIG
- h. PZR. Water Level \_\_\_\_\_ IN
- i. System Flow ☐ Forced ☐ Natural
- j. Latest Boron conc. \_\_\_\_\_ PPM
- k. Neutron Flux \_\_\_\_\_ CPS
- l. Latest Sample RC Gross Act. \_\_\_\_\_
- m. Incore T/C \_\_\_\_\_ °F
- n. RCP's Running   A1     A2     B1     B2

2. SECONDARY COOLANT SYSTEM

- a. SG/A Level \_\_\_\_\_ IN
- b. SG/B Level \_\_\_\_\_ IN
- c. SG/A Press. \_\_\_\_\_ PSIG
- d. SG/B Press. \_\_\_\_\_ PSIG
- e. Main FW Flow \_\_\_\_\_ #/Hr
- f. SG/A Emer FW Flow \_\_\_\_\_ GPM
- g. SG/B Emer FW Flow \_\_\_\_\_ GPM
- h. Main FW System ☐ Avail ☐ Not Avail  
☐ In Operation
- i. Emer FW System ☐ Avail ☐ Not Avail  
☐ In Operation
- j. Upper Surge T Lev \_\_\_\_\_ FT

3. AUXILIARY SYSTEMS

- a. HPI Letdown Flow \_\_\_\_\_ GPM
- b. HPI Makeup Flow \_\_\_\_\_ GPM
- c. Decay Heat Removal Flow A \_\_\_\_\_ GPM
- d. Decay Heat Removal Flow B \_\_\_\_\_ GPM

4. SAFETY INJECTION

- a. HPI Loop A Flow \_\_\_\_\_ GPM
- b. HPI Loop B Flow \_\_\_\_\_ GPM
- c. LPI Loop A Flow \_\_\_\_\_ GPM
- d. LPI Loop B Flow \_\_\_\_\_ GPM
- e. No. of Pumps in Oper \_\_\_\_\_ LPI \_\_\_\_\_ HPI

5. CONTAINMENT SYSTEMS

- a. Containment Press. \_\_\_\_\_ PSIG
- b. Containment Temp. \_\_\_\_\_ °F
- c. Containment Emer Sump Level \_\_\_\_\_ FT
- d. Containment H<sub>2</sub> Concern \_\_\_\_\_ %
- e. Containment Spray In Oper ☐ YES ☐ NO
- f. Containment Isolation Actuation ☐ YES ☐ NO
- g. R.B. Normal Sump Level \_\_\_\_\_ IN

6. RADIATION MONITORING SYSTEM

- a. Reactor Coolant Gross Act. \_\_\_\_\_ CPM
- b. SG/A Gross Activity \_\_\_\_\_ MR/hr
- c. SG/B Gross Activity \_\_\_\_\_ MR/hr
- d. CSAE Radiation Monitor \_\_\_\_\_ CPM
- e. Cont. Hi Range Area \_\_\_\_\_ R/hr
- f. Stack Noble Gas Mon. \_\_\_\_\_ CPM

7. ENVIRONMENTAL SYSTEMS

- a. Wind Speed \_\_\_\_\_ MPH
- b. Wind Direction \_\_\_\_\_ MPH
- c. Vert. Temp. Diff \_\_\_\_\_ °F
- d. Unit Vent Flow \_\_\_\_\_ CPM

8. ADDITIONAL INFORMATION

Oconee Operations

PLANT STATUS (circle)  
Unusual Event - Alert

MCGUIRE NUCLEAR STATION  
PLANT DATA AND STATUS  
INFORMATION  
Figure I-2

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

1. PRIMARY COOLANT SYSTTEM

a. T/Hot - Loop A \_\_\_\_\_ °F  
b. T/Hot - Loop B \_\_\_\_\_ °F  
c. T/Hot - Loop C \_\_\_\_\_ °F  
d. T/Hot - Loop D \_\_\_\_\_ °F  
e. T/Cold - Loop A \_\_\_\_\_ °F  
f. T/Cold - Loop B \_\_\_\_\_ °F  
g. T/Cold - Loop C \_\_\_\_\_ °F  
h. T/Cold - Loop D \_\_\_\_\_ °F  
i. NC System Press \_\_\_\_\_ PSIG  
j. Pzr. Water Level \_\_\_\_\_ %  
k. System Flow ☐ Forced ☐ Natural  
l. NCP's Running A B C D  
m. Boron Concentration \_\_\_\_\_ GPM  
n. Neutron Flux \_\_\_\_\_

2. SECONDARY COOLANT SYSTEM

a. SG/A Level \_\_\_\_\_ %  
b. SG/B Level \_\_\_\_\_ %  
c. SG/C Level \_\_\_\_\_ %  
d. SG/D Level \_\_\_\_\_ %  
e. SG/A Steam Press \_\_\_\_\_ PSIG  
f. SG/B Steam Press \_\_\_\_\_ PSIG  
g. SG/C Steam Press \_\_\_\_\_ PSIG  
h. SG/D Steam Press \_\_\_\_\_ PSIG  
i. SG/A CF Flow \_\_\_\_\_ MPPH  
j. SG/B CF Flow \_\_\_\_\_ MPPH  
k. SG/C CF Flow \_\_\_\_\_ MPPH  
l. SG/D CF Flow \_\_\_\_\_ MPPH  
m. SG/A CA Flow \_\_\_\_\_ GPM  
n. SG/B CA Flow \_\_\_\_\_ GPM  
o. SG/C CA Flow \_\_\_\_\_ GPM  
p. SG/D CA Flow \_\_\_\_\_ GPM  
q. CM / CF System ☐ Avail ☐ Not Avail  
r. CM System ☐ Avail ☐ Not Avail

3. AUXILIARY SYSTEMS

a. NV Letdown Flow \_\_\_\_\_ GPM  
b. NV Charging Flow \_\_\_\_\_ GPM

3. AUXILIARY SYSTEMS (continued)

c. ND Return Flow \_\_\_\_\_ GPM

4. SAFETY INJECTION SYSTEM

a. CCP Inj. Hdr Flow \_\_\_\_\_ GPM  
b. NI PUMP A Disch Flow \_\_\_\_\_ GPM  
c. NI PUMP B Disch Flow \_\_\_\_\_ GPM  
d. No. of Pumps in Oper? \_\_\_\_\_ CCP \_\_\_\_\_ NI  
e. FWST Level \_\_\_\_\_ FT  
f. Safety Inj. Actuation? ☐ YES ☐ NO

5. CONTAINMENT SYSTEMS

a. Containment Press \_\_\_\_\_ PSIG  
b. Containment Temp \_\_\_\_\_ °F  
c. Containment Sump Level \_\_\_\_\_ FT  
d. Containment H<sub>2</sub> Concern \_\_\_\_\_ %  
e. NS System in Oper? ☐ YES ☐ NO  
f. Cont. Isol. Actuation ☐ YES ☐ NO

6. RADIATION MONITORING SYSTEMS

a. NCS Monitor \_\_\_\_\_ CPM  
b. CSAT Monitor \_\_\_\_\_ CPM  
c. Cont. HI Range Area \_\_\_\_\_ R/hr  
d. Cont. Gas Monitor \_\_\_\_\_ CPM  
e. Annulus Monitor \_\_\_\_\_ R/hr  
f. Unit Vent Noble Gas \_\_\_\_\_ CPM  
g. Unit Vent Iodine \_\_\_\_\_ CPM/MIN  
(observed over \_\_\_\_\_ min)

7. ENVIRONMENTAL SYSTEMS

a. Wind Speed \_\_\_\_\_ MPH  
b. Wind Direction \_\_\_\_\_  
c. Vert. Temp Diff \_\_\_\_\_ °C  
d. Unit Vent Flow \_\_\_\_\_ CFM

8. ADDITIONAL INFORMATION

McGuire Operations

DUKE POWER COMPANY  
CRISIS MANAGEMENT PLAN

FIGURE I-3

Plant Data and Status Information/  
Other Operating Reports/Radiological Data Sheet

Distribution List

Recovery Manager  
Crisis News Director  
Crisis News Monitor  
Administration and Logistics Manager  
NRC - Primary Representatives  
Vendor - Primary Representative  
Scheduling and Planning Group - Planning Coordinator  
Design and Construction Support Manager  
Health Physics/Radwaste Manager  
Off-site Radiological Coordinator  
Corporate Headquarters  
State Representative - CMC  
County Representative(s) - CMC

DUKE POWER COMPANY  
CRISIS MANAGEMENT PLAN  
RADIOLOGICAL DATA SHEET

Station \_\_\_\_\_  
Unit \_\_\_\_\_

Figure I-4

RADIOLOGICAL CONDITIONS

Date/ Time	RX BLDG DOSE (rem)	(Design Leak Rate)				(Containment Failure)			
		OFFSITE DOSE (rem)				OFFSITE DOSE (rem)			
		1 mi.	3 mi.	5 mi.	10 mi.	1 mi.	3 mi.	5 mi.	10 mi.

RADIOLOGICAL RECOMMENDATIONS

Date/ Time	SECTORS in Exposure Pathway	RECOMMENDATION	
		State/County Contacted	Statement of Recommendation*

\*Must state either (1) NONE, (2) (Precautionary) Evacuation of \_\_\_\_\_ miles radius and/or \_\_\_\_\_ miles in \_\_\_\_\_ direction involving \_\_\_\_\_ sectors, (3) other recommendations

Approved By: \_\_\_\_\_

DUKE POWER COMPANY  
CRISIS MANAGEMENT PLAN

Figure I-5

PLANT STATUS (Circle)  
Unusual Event - Alert  
Site Emer. - Gen. Emer.

NUCLEAR STATION  
PLANT DATA AND STATUS  
INFORMATION

UNIT \_\_\_\_\_  
DATE \_\_\_\_\_  
TIME \_\_\_\_\_

Approved By: \_\_\_\_\_  
Station Operations

DATE: \_\_\_\_\_  
TIME: \_\_\_\_\_

DUKE POWER COMPANY  
CRISIS MANAGEMENT PLAN

Figure I-6

MEMORANDUM TO: \_\_\_\_\_

SUBJECT: \_\_\_\_\_  
\_\_\_\_\_

MESSAGE:

Submitted by: \_\_\_\_\_

Reviewed by: \_\_\_\_\_

- ☐ This sheet contains finalized information/data to be utilized  
by the Recovery Manager

COPY TO:

DUKE POWER COMPANY  
CRISIS MANAGEMENT PLAN

Figure I-7

WORK ACTIVITY JOB REQUIREMENTS

Title For Work Activity -

Work Activity Description -

Manpower Requirements - (Number of workers, estimated work hours, necessary  
worker classification)

Estimated Start and Completion Dates For This Work Activity -

Crisis Management Group Responsible for this Work Activity -

Special Constraints - (such as the impact of this project on other  
work activities)

DUKE POWER COMPANY  
CRISIS MANAGEMENT PLAN

Figure I-8

PERFORMANCE MONITOR WORK ACTIVITY STATUS REPORT

Work Activity:

Report No. \_\_\_\_\_ Date of this Report \_\_\_\_\_ Time \_\_\_\_\_

% Complete as of this report - \_\_\_\_\_ %

Original Estimate for Job Completion \_\_\_\_\_

Outstanding Items for this Work Activity -

Potential Delays and/or Problems

Should this Work Activity's Estimated Completion Date be Revised? \_\_\_\_\_

If so, the new Estimated Completion Date is \_\_\_\_\_.

Prepared By: \_\_\_\_\_



Figure I-9

DATE: \_\_\_\_\_ SCHEDULE NO. \_\_\_\_\_

A.M.			P.M.					A.M.			
8	10	12	2	4	6	8	10	12	2	4	6
10	12	2	4	6	8	10	12	2	4	6	8

DUKE POWER COMPANY  
CRISIS MANAGEMENT PLAN

Figure I-10

TWO DAY WORK SCHEDULE

DATES: \_\_\_\_\_ SCHEDULE NO. \_\_\_\_\_

Work Activity Description	DAY 1										DAY 2									
	A.M.		P.M.				A.M.		P.M.				A.M.		P.M.				A.M.	
	8	11	2	5	8	11	2	5	8	11	2	5	8	11	2	5	8	11	2	5
	11		2	5	8	11	2	5	8	11	2	5	8	11	2	5	8	11	2	5

DUKE POWER COMPANY  
CRISIS MANAGEMENT PLAN

Figure I-11

LONG TERM WORK SCHEDULE

DATE PREPARED: \_\_\_\_\_

SCHEDULE NO. \_\_\_\_\_

Time Periods \_\_\_\_\_

Work Activity Description \_\_\_\_\_

DUKE POWER COMPANY  
CRISIS MANAGEMENT PLAN

Figure I-12

PROJECT MILESTONES

REPORT NO. \_\_\_\_\_ DATE OF THIS REPORT \_\_\_\_\_

Estimated Completion Dates x  
Actual Completion Dates \*

MILESTONES

Dates \_\_\_\_\_

DUKE POWER COMPANY  
CRISIS MANAGEMENT PLAN

PROGRESS REPORT # \_\_\_\_\_

DATE \_\_\_\_\_

Figure I-13

TO: \_\_\_\_\_

FROM: \_\_\_\_\_

PERIOD FROM \_\_\_\_\_ TO \_\_\_\_\_

I. SITE AND UNIT CONDITION

A. UNIT STATUS \_\_\_\_\_

B. SITE CONDITION \_\_\_\_\_

C. BOUNDARY CONDITION \_\_\_\_\_

II. OBJECTIVES FOR PERIOD

COMPLETION STATUS (%)

PROJECTED=0 ACTUAL=X

ITEM DESCRIPTION

0----25----50----75----100%

III. DELAYS AND/OR PROBLEMS ENCOUNTERED

IV. UPCOMING OBJECTIVES FOR PERIOD FROM \_\_\_\_\_ TO \_\_\_\_\_ COMPLETION STATUS (%)

PROJECTED=0

ITEM DESCRIPTION

0----25----50----75----100%

## DATE \_\_\_\_\_ Station \_\_\_\_\_

FIGURE 1-14

[illegible]

DUKE POWER COMPANY

CRISIS MANAGEMENT PLAN

IMPLEMENTING PROCEDURE 5.3.11

MCGUIRE NUCLEAR STATION-CRISIS

TELEPHONE DIRECTORY

Rev. 0  
April 30, 1982

TECHNICAL SUPPORT CENTER  
MCGUIRE NUCLEAR STATION

875-1357 (McGuire Switchboard)  
Tie Line from Training Center 6 + 4 digit extension  
or 81 + 212 + extension

	<u>Room</u>	<u>Extension</u>
<u>Station Manager</u>	914	4212
<u>Administration</u>		
Superintendent	914	4221
Coordinators/Admin, Trng. Safety	912	4217/4219
Contract Coordinator (Security, etc)	912	4228
<u>Maintenance</u>		
Superintendent	914	4240
Mechanical Engineer	913	4380
IAE Engineer	913	4239
Planning	913	4426
<u>Operations</u>		
Superintendent	914	4214
Engineer	913	4265/4259
<u>Technical Services</u>		
Superintendent	914	4225
Performance Engineer	913	4442
Reactor Engineer	913	4469
Chemistry	913	4492
Health Physics	911	4444/4489
Projects and Licensing Engineer	912	4242
ENS HPN NRC	911	4519/4520
Telecopier/Computer Room	921	4521/4522
SERT Headquarters (Air National Guard Armory)		393-2832 or 292-8793



CRISIS MANAGEMENT CENTER  
(Technical Training Center)  
McGuire Nuclear Station

875-1686 - Switchboard

Extensions 500-529 are connected through the Technical Training Center Switchboard and are for general use. All incoming calls to these 500 numbers must go through the switchboard. The 373 exchange numbers are provided for communication with the main office and outside agencies. Calls can be made on these lines to any 373 numbers in the system without requiring an outside line. Calls can be made between extension numbers within the Training Center by dialing the extension number only.

Administration/Logistics -----	Extension 507 Extension 508 Extension 509 Extension 510 Bell Line 373-7761
Construction First Aid -----	875-1361 Extension 430
Data Coordination Area ----- (Telecopier)	Extension 518 Extension 519
Design/Construction -----	Extension 526 Extension 527 Extension 528 Extension 529 Bell Line 373-7762
Health Physics/Radwaste -----	Extension 501 Extension 502 Extension 503 Extension 504
News Staff -----	Extension 520 Extension 521 Extension 522 Extension 523 Extension 524 Bell Line 373-7764
Nuclear Regulatory Commission -----	Extension 525 Bell Line 373-7763
Offsite Radiation Coordination -----	Extension 503 505 Extension 506 Bell Line 373-7759
Recovery Manager -----	Extension 513 Bell Line 373-7750

Scheduling/Planning ----- Extension 511  
 Extension 512

Technical Support ----- Extension 514  
 Extension 515  
 Extension 516  
 Extension 517

To call Plant from CMC ----- Dial 6 + Extension

To call Construction Office from CMC ----- Dial 875-1361

Central Processing Center (Accommodations)----- 875-1073

Medical Support (First Floor of Training Center  
 in Manager's Conference Room  
 behind switchboard) Extension 113

To call General Office ----- Dial 81 + Extension

CRISIS NEWS CENTER

875-9468  
 875-9434  
 875-1015  
 875-1029  
 875-1045  
 875-1062  
 875-9316

875-9334  
 875-9355  
 875-9362  
 875-9382  
 875-9413  
 875-9423  
 875-9426

# TIE LINES FROM TECHNICAL TRAINING CENTER TO OTHER DUKE SITES

DIALING 81 "TIES YOU IN" TO THE 373 MICROWAVE NUMBERS ON THE DUKE SYSTEM. YOU MAY DIAL 81 PLUS ANY FOUR DIGIT NUMBER THAT HAS A 373 PREFIX.

YOU MAY ALSO REACH A PARTICULAR STATION AND/OR EXTENSION NUMBER BY DIALING 81 PLUS THE THREE DIGIT TIE LINE NUMBER FOR THAT STATION PLUS AN EXTENSION NUMBER OR OPERATOR.

TIE LINE BETWEEN THE TRAINING CENTER IS AS FOLLOWS:

TRAINING CENTER TO MCGUIRE: 6 + EXTENSION NUMBER OR OPERATOR  
MCGUIRE TO TRAINING CENTER: 62 + EXTENSION NUMBER OR OPERATOR

<u>STEAM PRODUCTION (STATIONS)</u>	<u>OUTSIDE LINES</u>	<u>TIE LINES (81 TO GET ACCESS</u>
Allen	825-2002, 373-4646	
Belews Creek	373-8284, 373-8292	
Buck	373-5980, 373-4692	
Buzzard Roost	373-4571	
Catawba	373-7073, 373-7176	188 + Ext. No. or <u>Operator</u>
Cliffside	373-8180	201 + Ext. No. or <u>Operator</u>
Dan River	373-4494	
Lee	373-4460	208 + Ext. No. or <u>Operator</u>
Marshall	373-4122, 373-4123, 373-8305	
Oconee	803-882-5363, 373-5094	110 + Ext. No. or <u>Operator</u>
Oconee Training Center	373-5094	110 + Ext. No. or 452
Riverbend	827-4931, 373-4931, 373-4949	
McGuire	875-1357, 875-1358, 373-8308, 373-8309	212 + Ext. No. or <u>Operator</u> (or 6 + ext. no. w/o using the 81 tie line)
SMS	373-5816	
Environmental Services	875-1381, 875-1382, 875-1383, 875-1384	

CONSTRUCTION DEPARTMENT  
(STATIONS)

OUTSIDE LINES

TIE LINES (81 TO GET ACCESS

Catawba	Lake Wylie - 831-1512 373-7069	104 + Ext. No. or <u>Operator</u>
Cherokee	803-489-8131	115 + Ext. No. or <u>Operator</u>
McGuire	875-1361, 373-5361	
Oconee SSD	803-882-5363 373-7822, 7823 or 7824	110 + Ext. No. 455 or 432
Station Support - Mt. Holly	827-7256	

McGuire Offsite Agency Telephone List

Counties

Mecklenburg	704/374-3333 or Emergency Radio Code 21
Gaston	704/866-3300 or Emergency Radio Code 26
Iredell	704/873-2531 or Emergency Radio Code 23
Catawba	704/464-3112 or Emergency Radio Code 27
Lincoln	704/735-8202 or Emergency Radio Code 25

NOTE: Radio Code 20 activates all county radio units

States

N.C. (E.O.C.)	919/733-3861	
N.C. (SERT Headquarters)	Ringdown Phone	
S.C. Emergency Preparedness Division	803/758-2826	
S.C. Department of Health & Environmental Control	803/758-5548	(8:30 A.M.-5:00 P.M. weekdays)
	803/758-5531	(After hours & weekends/holidays)
<u>DOE - Savannah River</u>	803/725-3333	
<u>NRC-- Operation Center</u>	"Red Phone"	
<u>American Nuclear Insurers</u>	203/677-7305	
<u>INPO</u>	404/953-0904	

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## EMERGENCY NUMBERS

MEDICAL (Located in Manager's Conference Room behind the switchboard in the Technical Training Center) ----- TTC Extension 113

FIRE -----374-2391

SECURITY-----TTC Extension 507, 508,  
509, 510

POLICE-----374-2391

CHARLOTTE/MECKLENBURG BOMB DISPOSAL TEAM-----374-2121  
OR 18TH ORDINANCE DEPARTMENT (EOD)----- (919) 396-8578  
(919) 396-5801  
(919) 396-6803

GENERAL OFFICE RESPONSE LOCATIONS  
(ALTERNATE CRISIS CENTER)

Administration and Logistics (Wachovia Room 1514)----- 373-6271  
7405  
7406

Design and Construction (Electric Center 3-32) ----- 373-4662  
5304  
5305

Health Physics/Radwaste (Wachovia 2390) ----- 373-7790  
5444

NRC (Wachovia 1728) ----- 373-4192  
7420

Offsite Radiological Coordinator (Wachovia 2384)----- 373-6150  
6265  
7940

\* Recovery Manager (Wachovia 1680) ----- 373-5731

    \*Phones available for other groups in WC 1680-----373-5743  
    (Planning/Scheduling) 7949  
    7951

States and Counties (Wachovia 1400)-----373-7531  
7595

Technical Support (Wachovia 1760)-----373-5177  
5235  
5236

CRISIS NEWS GROUP (INDIVIDUAL OFFICES ON FIFTH FLOOR OF POWER BUILDING)

M. Cartwright (PB 5014)-----373-5584

M. Boyd (PB 5012)-----373-8138

I. Kaplan (PB 5010)-----373-4023

A. Coffin (PB 5024)-----373-5054

News Staff and Media (Electric Center Auditorium)-----373-7946  
7947  
7948

DUKE POWER COMPANY  
CRISIS MANAGEMENT PLAN  
IMPLEMENTING PROCEDURE 5.3.10

OCONEE NUCLEAR STATION-CRISIS  
TELEPHONE DIRECTORY

Rev. 0  
April 30, 1982



# EMERGENCY NUMBERS

<u>MEDICAL</u>	(Located in Maintenance Room of the	1707
	Oconee Training Center-last room on	1708
	left after going through Simulator	1709
	Room)	1710

## PICKENS COUNTY

Primary Number	878-9376
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### Executive Group

County Administrator	878-4754
----------------------	----------

EOC Director	878-9376
--------------	----------

### Operation Group

Fire Protection	878-6033
-----------------	----------

Police	878-4863
--------	----------

Public Roads	878-2437
--------------	----------

Emergency Welfare Service	878-2578
---------------------------	----------

Damage Assessment	878-4737
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## OCONEE COUNTY

Primary Number (24 hour)	638-3097
--------------------------	----------

### Operations

Fire Protection	638-2633
-----------------	----------

Police	638-2864
--------	----------

	638-3002
--	----------

### Assessment

Emergency Welfare Services	638-2177
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	638-2484
--	----------

### Executive Group

Supervisor/ Chairman County Council	638-2540
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OCONEE NUCLEAR STATION  
CRISIS MANAGEMENT TEAM  
TELEPHONE DIRECTORY

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INCOMING LINES TO OCONEE NUCLEAR STATION

<u>From</u>	<u>Dial</u>
Seneca	882-5363 882-5368 882-5369 882-5370 882-5371 882-5621
Easley	859-0108 859-0113 859-0116
Anderson	224-8376
Six Mile Island	868-2717

DIAL CODE - MICRO-WAVE

Charlotte General Office	80
Catawba Steam	80-188
Catawba Construction	60-104
McGuire	80-212
Cherokee	80-115
Attendant (To access Bell Line)	0
Seneca	9
Easley	60
Anderson	61
Six Mile	63

*7/12/11 (M. H. H.) 532*

GENERAL OFFICE RESPONSE LOCATIONS  
(ALTERNATE CRISIS CENTER)

Administration and Logistics (Wachovia Room 1514)----- 373-6271  
7405  
7406

Design and Construction (Electric Center 3-32) ----- 373-4662  
5304  
5305

Health Physics/Radwaste (Wachovia 2390) ----- 373-7790  
5444

NRC (Wachovia 1728) ----- 373-4192  
7420

Offsite Radiological Coordinator (Wachovia 2384)----- 373-6150  
6265  
7940

\* Recovery Manager (Wachovia 1680) ----- 373-5731

\*Phones available for other groups in WC 1680-----373-5743  
(Planning/Scheduling) 7949  
7951

States and Counties (Wachovia 1400)-----373-7531  
7595

Technical Support (Wachovia 1760)-----373-5177  
5235  
5236

CRISIS NEWS GROUP (INDIVIDUAL OFFICES ON FIFTH FLOOR OF POWER BUILDING)

M. Cartwright (PB 5014)-----373-5584

M. Boyd (PB 5012)-----373-8138

I. Kaplan (PB 5010)-----373-4023

A. Coffin (PB 5024)-----373-5054

News Staff and Media (Electric Center Auditorium)-----373-7946  
7947  
7948

CRISIS MANAGEMENT CENTER

<u>Position/Name</u>	<u>Private Line</u>	<u>ONS Switchboard</u>
<u>RECOVERY MANAGER</u>		
H. B. Tucker		1713
<u>Alternates:</u>		
W. O. Parker		
R. M. Koehler		
<u>SCHEDULING/PLANNING MANAGER</u>		
R. W. Bostian		1711
<u>Alternates:</u>		1712
F. C. Hayworth		
J. C. Leathers		
<u>HEALTH PHYSICS/RADWASTE MANAGER</u>		
W. A. Haller		1701
		1702
		1703
		1704
<u>Alternates:</u>		
R. C. Furrell		
B. E. Davis		
R. T. Simril		
<u>TECHNICAL SUPPORT</u>		
K. S. Canady		1714
		1715
		1716
		1717
<u>Alternates:</u>		
H. T. Snead		
W. A. Coley		
<u>DESIGN AND CONSTRUCTION SUPPORT MANAGER</u>		
J. L. Elliott		1726
		1727
		1728
		1729
<u>Alternates:</u>		
D. L. Freeze		
S. K. Blackley		
C. J. Wylie		
S. B. Hager		
<u>OFFSITE RADIOLOGICAL COORDINATOR</u>		
L. Lewis		1705
(Offsite Dose Projection)		1706
<u>Alternates:</u>		
W. P. Deal		
M. S. Tuckman		

Telephone Number  
882-5363

<u>Position/Name</u>	<u>Private Line</u>	<u>ONS Switchboard</u>
<u>ADMINISTRATION AND LOGISTICS MANAGER</u>		
J. T. Moore		1707 1708 1709 1710
<u>Alternates:</u>		
R. F. Smith		
R. H. Lynn		
R. N. Johnson		
S. M. Kessler		
E. D. Morton		
<u>ADVISORY SUPPORT</u>		
<u>Nuclear Regulatory Commission</u>		
J. P. O'Reilly		1725 1716 1717
<u>Alternate:</u>		
F. J. Long		
<u>Babcock &amp; Wilcox (NSSS Supplier)</u>		
J. D. Phinney		1714 1715
<u>Alternate:</u>		
R. B. Kosiba		
<u>CORPORATE HEADQUARTERS</u>		
(Contact with Governor)		
A. C. Thies		
<u>Alternate:</u>		
W. H. Owen		
<u>DATA COORDINATION</u>		
(Telecopier)		
		1718 1719 1700

CRISIS NEWS CENTER

<u>Position/Name</u>	<u>Private Line</u>	<u>Telephone Number</u> 882-5363 ONS <u>Switchboard</u>
<u>CRISIS NEWS DIRECTOR</u> Mary Cartwright		1430 1431
Alternate: Ira Kaplan		1720 1721 1722 1723 1724

COMMERCIAL NEWS MEDIA  
(Active Numbers)  
For drill purposes only

COMMERCIAL NEWS MEDIA  
(Inactive Numbers)  
Activated only during an  
actual emergency

STATE/COUNTIES PUBLIC INFORMATION OFFICERS

882-7484  
882-7257  
882-6732  
882-6908  
882-6588

PHONE NUMBERS FOR LIBERTY RETAIL OFFICE

Recovery Manager	843-2751
Scheduling/Planning	843-2752
Crisis News	843-2753 843-2754 843-2755
Design and Construction	843-2701 843-2702
Technical Support	843-2703 843-2704
Offsite Radiological Coordinator	843-2705 843-2761
Administration & Logistics	843-2762 843-2763
Health Physics/Radwaste	843-2764 843-2765
NRC/State and Counties	843-6935 843-8014

TECHNICAL SUPPORT CENTER

<u>POSITION/NAME</u>	<u>Telephone Number</u> <u>Outside</u> <u>Line</u>	<u>882-5363</u> <u>Station</u> <u>Number</u>
Emergency Coordinator . . . . . J. E. Smith G. E. Vaughn, Alternate . . . . .	882-7076	1211
Supt. of Operations . . . . . J. N. Pope		1210
Supt. of Technical Services . . . . . T. B. Owens		1213
Supt. of Maintenance . . . . . J. M. Davis		1227
Supt. of Administration . . . . . J. T. McIntosh		1212
NRC Resident Engineer . . . . . W. H. Orders		1108
B&W Resident Engineer . . . . . B. W. Street L. H. Williams, Alternate		1140
Station Health Physicist . . . . . C. T. Yongue		1234
<u>HEALTH PHYSICS CENTER</u>		
Environmental Surveillance Coordinator . . . . . J. J. Sevic		1417
Data Evaluation/Report Preparation Supervisor . . . (Off-Site Dose Projection) C. Harlan		1138
Surveillance and Control Coordinator . . . . . M. D. Thorne		1105
Support Functions Coordinator . . . . . J. A. Long		1177
Dosimetry Records . . . . .		1276 1480
<u>TECHNICAL SERVICES GROUP</u>		
Performance . . . . . T. S. Barr		1409
Licensing and Projects . . . . . R. T. Bond		1229
Chemistry . . . . . D. P. Rochester		1220



<u>Telephone Number</u>	
	882-5363
<u>Outside Line</u>	<u>Station Number</u>
	1387

# OPERATIONAL SUPPORT CENTER

(Support group consists of Health Physics, Chemistry, Maintenance, Safety and Operations personnel)

## Operational Support Center Coordinator

W. E. Martin . . . . . 1216

## Mechanical Maintenance Engineer

D. Thompson . . . . . 1223

## I & E Engineer

R. Adams . . . . . 1219

## Operations Group

Unit #3 Operations Offices . . . . . 1221  
1492  
1174

Nuclear Equipment Operators (Unit 1 & 2 Emergencies) 1333

Nuclear Equipment Operators (Unit 3 Emergencies) 1388

## ADMINISTRATION GROUP (NOT LOCATED IN TSC)

Administration Coordinator . . . . . 1218

Training & Safety . . . . . 1240

Contract Services . . . . . 1482

K-Mac . . . . . 1424

Security . . . . . 1309  
1359

## CONTROL ROOM

Unit 1 . . . . . 1261, 1335

Unit 2 . . . . . 1321, 1206

Unit 3 . . . . . 1278, 1337

Shift Supervisor (Unit 1 & 2) . . . . . 1272, 1316  
Unit 3 . . . . . 1392

## TELECOPIER

Technical Support Center . . . . . 1314

DUKE POWER COMPANY  
OCONEE NUCLEAR STATION  
NUMBER CODE FOR IDENTIFYING PERSONNEL/ACTIVITIES TO BE NOTIFIED

NOTE: Telephone notifications of emergencies including emergency tests or drills to the NRC and other off-site agencies are not considered complete until direct voice contacts are made with the responsible representatives of the agencies being notified. If the call is made after hours and the agencies' answering service is on duty, request for the duty person to call back as soon as they can be reached. Otherwise, the leaving of a message is not considered a complete notification.

CODE

1. NUCLEAR REGULATORY COMMISSION by Red Phone within one hour.
2. UNIT COORDINATOR/OPERATIONS DUTY ENGINEER who will notify: A, B, C
  - A. Superintendent of Operations and Station Manager
  - B. Steam Production Duty man . . . . . 704-373-5504
  - C. Corporate Communications (Unusual Event Only) . . . . . 704-526-5970
3. STATION MANAGER . . . . .
  - J. Ed Smith, Office . . . . . Ext. 12
  - Home . . . . .
4. BABCOCK AND WILCOX RESIDENT ENGINEER
  - Bill Street, Office . . . . . Ext. 1140
  - Home . . . . .
  - (If Bill Street cannot be reached, call)
  - L. H. Williams, Office . . . . . Ext. 1459
  - Home . . . . .
5. STATION HEALTH PHYSICIST/DUTY HEALTH PHYSICIST
  - C. T. Yongue, Office . . . . . Ext. 1234
  - Home . . . . .

6. SOUTH CAROLINA DEPARTMENT OF HEALTH AND ENVIRONMENTAL CONTROL,  
BUREAU OF RADIOLOGICAL HEALTH (Warning Point State of South Carolina)

Director, Heyward G. Shealy, Office . . . . . 758-5548  
 Answering Service After Hours . . . . .  
 Home . . . . .

## 7. COUNTY CIVIL DEFENSE AGENCIES

Oconee County Director, Walter B. Purcell . . . . . 638-3097  
(24 hrs.)

Pickens County Director, William D. Evett, Office . . . . .	878-9376
(After hours can be reached through the Sheriff's Office)	878-2421
	855-1666
	878-3500

8. COUNTY SHERIFF'S DEPARTMENTS

Oconee County (24 hours)	638-3678
--------------------------	----------

Pickens County (24 hours)	878-2421
	855-1666
	878-3500

## 9. MEDICAL ASSISTANCE

Oconee Memorial Hospital Ambulance Service . . . . . 882-4611

Oconee Memorial Hospital Switchboard/Emergency Room . . . 882-3351

## 10. 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

## 11. TECHNICAL SUPPORT CENTER ACTIVATION

(If the first person can not be reached, go to the next person down the list until one person is contacted)

Emergency Coordinator/Station Manager

J. E. Smith, Office . . . . . Ext. 1211  
Home . . . . .

Assistant Station Manager

G. E. Vaughn, Office . . . . . Ext. 1150  
Home . . . . .

Superintendent of Technical Services

T. B. Owen, Office . . . . . Ext. 1213  
Home . . . . .

Superintendent of Maintenance

J. M. Davis, Office . . . . . Ext. 1227  
Home . . . . .

Superintendent of Operations

J. N. Pope, Office . . . . . Ext. 1210  
Home . . . . .

Superintendent of Administration

J. T. McIntosh, Office . . . . . Ext. 1212  
Home . . . . .

12. CRISIS MANAGEMENT CENTER ACTIVATION

The Duke Power Crisis Management Organization will be notified for all Alert, Site Area Emergency, or General Emergency class emergencies. The Crisis Management Organization is notified by contacting one of the persons listed below. If the first person can not be reached, go to the next person down the list until one person is contacted. The person contacted is responsible for implementing the Crisis Management Plan notification requirements.

Manager, Nuclear Production Division

H. B. Tucker, Office . . . . . 704-373-4531  
Home . . . . .

Vice-President, Steam Production

W. O. Parker, Jr., Office . . . . . 704-373-4083  
Home . . . . .

Manager, Technical Training Center

R. M. Koehler, Office . . . . . 704-875-1686  
Home . . . . .

Steam Production Operations

Duty Man . . . . . 704-373-5504

### 13. 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 . . . . .	

#### Lake Hartwell

##### City of Clemson

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

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

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

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

##### Clemson University

President's Office . . . . .	656-3413
Home . . . . .	654-2466

(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
---	----------

### AGENCIES THAT MAY RESPOND TO AN EMERGENCY AT THE OCONEE NUCLEAR STATION

#### LAW ENFORCEMENT

S. C. Highway Patrol (Greenville, S.C.) . . . . .	235-7471
---	----------

S. C. Enforcement Division (Columbia, S.C.) . . . . .	758-6000
---	----------

Communications Check-Officer-of-the-Day . . . . .	758-6000
---	----------

FBI (Columbia, S.C.) . . . . .	254-3011
--------------------------------	----------

#### BOMB DISPOSAL

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

## RADIATION AND CONTAMINATION

REACTS, Department of Emergency (Oak Ridge, Tennessee) . . . (24 hr. number - after 1700 as for Beeper number) . . .	615-482-243 2
DOE Emergency Radiological Monitoring Team (Aiken, S.C.) . . .	725-3333 (24 hrs.)
N. C. Division of Emergency Management . . . . . (North Carolina State Warning Point - 24 hours)	919-733-3861
Georgia Department of Natural Resources Environmental Radiation Program . . . . .	404-656-4300 (24 hrs.)
Communication Check:	
Bill Cline . . . . (0800-1700) . . . . .	404-656-6905
Jim Setser . . . . (0800-1700) . . . . .	404-656-6905
Georgia Civil Defense (0800-1700) - Operations Section . . . After Hours - Duty Officer . . . . .	404-656-5500 404-656-4300

## NUCLEAR REGULATORY COMMISSION

NRC Operations Center (via Bethesda Central Office) . . .	301-492-8111
NRC Operations Center (via Silver Spring Central Office) .	301-427-405
Health Physics Network to NRC Operations Center . . . . .	*22 (Touch-tone) 22 (Rotary Dial)
NRC Operator (Via Bethesda Central Office) . . . . .	301-492-7000
US NRC, Region II . . . . . (24 hr.) . .	404-221-4503
US NRC, Oconee Resident Inspector . . . . .	882-5363 Ext. 1108

## BUS TRANSPORTATION

Oconee County School Superintendent (0800-1600) . . . . .	638-5868
(If Superintendent cannot be reached call) Bus Supervisor, Ralph Robinson (0645-1630) . . . . . Home . . . . .	638-2015

## NATIONAL WEATHER SERVICE - METEOROLOGICAL BACK-UP SOURCE

Greenville-Spartanburg Weather Service . . . . (24 hour) .	877-6998
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## NRC HEALTH PHYSICS NETWORK TELEPHONES

The NRC's Health Physics Network (HPN or Black Phone) connects all Nuclear Power Plants and Fuel Facilities to NRC Regional Offices and to NRC Headquarters Operations Center. The phone is intended to support Health Physics Operations in an emergency but can be used for daily voice traffic and facsimile transmittal.

There are four points at Oconee Nuclear Station which can access the HPN network. The station has jacks for the HPN phones in the Units 1&2 Control Room area, the Unit 3 Control Room area, and in the training center. Any of these 3 phones can be accessed by dialing #73. A separate phone that can be accessed by the #72 is located in the NRC resident inspectors office.

The phone is used normally with the exception; NO DIAL TONE OR RINGING IS HEARD. In addition, ringing only lasts 30 seconds, so after 30 seconds if the party has not answered, you must hang up and redial.

A complete directory of HPN telephone numbers and services are with each phone. For convenience, the codes most often used are listed below:

<u>HPN Phone</u>	<u>Code</u>
1. NRC region 2 (Atlanta) office	23
2. NRC headquarters	22
3. B&W Research Center	83
4. Oconee NRC Resident Inspector	72
5. Oconee Nuclear Station	73
6. <u>All</u> NRC region 2 Resident Inspectors	26
7. <u>All</u> region 2 Operating Nuclear Plants	25

In addition, the calling party may "conference" any phones during conversation by simply dialing the appropriate code(s). Any number of stations may be added in this manner.

Any problems with this phone system should be reported to Southern Bell in Greenville at 803-233-3906.



## OCONEE EMERGENCY RADIO USE INSTRUCTIONS

The emergency radio network of the Oconee Nuclear Station (ONS) is specifically limited to use in an emergency event. The radio network will operate to provide:

- 1) back up communications between ONS, Pickens Civil Defense, and Oconee Emergency Preparedness Agency,
- 2) primary communications between ONS field monitoring teams and ONS,
- 3) and, back up to ONS internal communications between the Control Room/ Technical Support Center areas and the Crisis Management Center.

The emergency radio network operates on a separate radio frequency than ONS administrative radios. The call letters WQC699 identify this frequency and will be used at the end of transmission from the base station only.

The emergency radio network utilizes 3 different types of transceivers: encoding transceivers (the ONS Base Remotes), control squelch transceivers (Coded Squelch radios), and open transceivers (the field monitor radios).

Encoding transceivers are units that have a "dialing" mechanism that can "dial" a particular radio for notification of an impending message transmission. One encoding transceiver is permanently located in the Units 1&2 Control Room area. Two other encoding transceivers are available and can be plugged into the system. One of these transceivers is stored in the ONS Training Center intended for use if the Crisis Management Center is activated. This unit can be activated by making the proper AC/DC electrical connections and by connection to an antenna hookup located in 2 classroom at the training center. (Antenna hookup is preceded by removal and storage of jummy plug presently in the antenna socket.) The other encodable radio transceiver is stored by the Emergency Coordinator at ONS. This radio can be used in the Units 1&2 or Unit 3 Control Room or Technical Support Room areas. Again the unit is activated by proper AC/DC electrical connections and by connection to one of two antenna support in the Technical Support Center. Antenna hookup for either place is first preceded by the removal of the "dummy" plug in the Units 1&2 H.P. area's antenna socket.) These 3 radios can dial the control squelch radios.

The control squelch radios are radios that remain silent until a signal to "break" the squelch is given from an encoding transceiver. There are 3 of these units, one each at the following locations, Pickens County Civil Defense, Oconee County Communications Center, and with the Oconee Nuclear Stations Emergency Coordinator. Once the squelch is broken, the units can monitor all traffic (the units can also monitor all traffic if they manually set their units to M monitor function) until the unit is reset.

The field monitoring teams have portable units that have no coding capability.

### SYSTEM NOTES:

The emergency radio system operates at 48.50 megahertz (the ONS administrative radio system operates at 47.98 megahertz.) The base station remotes are 50 watt



the porta mobile radios are 20 watts, and the hand held units are 5 watts, therefore in assigning radios to the more distant locations, use the porta mobile radios and reserve the hand held units for close to the station.

Radio operations will be in accordance with the Duke Power Co. "Radio Operator's Manual".

### OCONEE NUCLEAR STATION EMERGENCY EVENT RADIO

The call letters WQC699 identify the Emergency Event Radio frequency. The following is a listing of radio locations, unit call letters, and identifiers. Use identifiers only in transmission (For example, message may start with "Control Room to Alpha" and response will be Alpha to Control Room).

#### ONS Base Station Remotes

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

#### Coded Squelch Radios

(Note above 3 Base Stations can activate squelch to the following radios by dialing encoding numbers.)

	<u>Location</u>	<u>Encode</u>	<u>Unit Call Letters</u>	<u>Identifier</u>
4.	Pickens Co. (Courthouse)	31	KNBE-487	Pickens Co.
	Pickens Co. (C. D. Office)	31	KNBE-480	Pickens Co.
5.	Oconee Co. Civil Defense	32	KNBE-488	Oconee Co.
6.	State FEOC - Clemson	34	KA82139	State FEOC
7.	ALL 3 ABOVE RADIOS MAY BE ACTIVATED BY DIALING 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.

DUKE POWER COMPANY  
CRISIS MANAGEMENT PLAN  
IMPLEMENTING PROCEDURE 5.3.16  
QUARTERLY INVENTORY

QUARTERLY INVENTORY PROCEDURE1.0 Purpose

- 1.1 To ensure that emergency supplies designated for use by the Crisis Management Organization are maintained up-to-date through a quarterly inventory.

2.0 References

- 2.1 Crisis Management Plan Section H

3.0 Limits and Precautions

- 3.1 None

4.0 Procedure

- 4.1 Between the 15th and the end of each of the following months, the Emergency Response Coordinator will send out a letter to groups listed below for an inventory of each of the listed kits or stored supplies.

Inventory Letters To Go Out In

March  
June  
September  
December

Groups Responsible For Inventory

Hp/Radwaste	Attachment 5.1
Admin. & Logistics-Medical	Attachment 5.2
Admin. & Logistics-Communications	Attachment 5.3
Admin. & Logistics-Trailer	Attachment 5.4
Admin. & Logistics-G.O. Stationary	Attachment 5.5
Scheduling/Planning	Attachment 5.6

- 4.2 The letter to the group will indicate a date for completion of the inventory. This date will be no more than 30 days after the last day of the subject month indicated above.
- 4.3 All inventories performed will be attached to a copy of the letter transmitting the request and a copy of this procedure indicating a completion date and stored in the Emergency Response Coordinator's files as well as Wachovia Center - 15th floor master file.

F.0 Attachments

- 5.1 HP/Radwaste Emergency Kits
- 5.2 First Aid Supplies
- 5.3 CMC/CNC Communications Equipment
- 5.4 Registration Trailer Supplies
- 5.5 G.O. Stationary Supplies
- 5.6 Scheduling/Planning Maps & Decisional Aids

## Attachment 5.1

QUARTERLY INVENTORY  
 HP/RADWASTE EMERGENCY KIT #1  
 Duke Power Company General Office

<u>Item</u>	<u>Number In Plan</u>	<u>Number In Inventory</u>
1. Air Purifying Respirator Mask w/filters (MSA)	<u>1</u>	—
2. All Purpose Markers	<u>1</u>	—
3. Box of Small Kimwipes	<u>2</u>	—
4. Caution: Radiation/Radioactive Material Tags	<u>6</u>	—
5. Coveralls, Sack Type, Disposable	<u>4</u>	—
6. Coins for Telephone-Roll of Dimes	<u>1</u>	—
7. Cotton Gloves-Bundle	<u>1</u>	—
8. Flashlight and Extra Batteries	<u>2</u>	—
9. 50 yard roll of barricade type	<u>1</u>	—
10. Hood, Disposable	<u>4</u>	—
11. Marking Tape: 1" Roll; 2" Roll	<u>1</u> each	—
12. Nucon Smears	<u>25</u>	—
13. Poly Bags	<u>6</u>	—
14. Radiation Waste Signs (4" x 6")	<u>25</u>	—
15. Roll of Duct Tape	<u>1</u>	—
16. Rubber Shoe Covers, Medium Pairs	<u>4</u>	—
17. Rubber Surgeon Gloves, Pairs	<u>12</u>	—
18. Safety Glasses	<u>5</u>	—
19. Scotch Tape Roll and Dispenser	<u>1</u>	—
20. Shoe Covers, Disposable Pairs	<u>4</u>	—
21. Step Off Pads	<u>3</u>	—
22. Surgeon's Gloves (Large), Box	<u>1</u>	—
23. Surgeon's Caps, Disposable	<u>4</u>	—
24. Wet Suit Disposable	<u>2</u>	—
25. Weather-Proof Caution Signs w/inserts	<u>4</u>	—

Inventory Performed By: \_\_\_\_\_

Date: \_\_\_\_\_

## Attachment 5.1 (continued)

## QUARTERLY INVENTORY

## HP/RADWASTE EMERGENCY KIT #2

Duke Power Company General Office

	<u>Item</u>	<u>Number In Plan</u>	<u>Number In Inventory</u>
1.	Binoculars	<u>1</u>	—
2.	Hard Hats	<u>3</u>	—
3.	Plastic Sample Bottles	<u>12</u>	—
4.	KI Tablets (14 per Bottle), Bottles	<u>19</u>	—
5.	<u>Box A</u>		
	RM-14 w/DT-260 or DT-210 Probe	<u>1</u>	—
	<u>Box B</u>		
	Beta-Gamma Probe (Thyac- Victoreen 390, 0-20 MR/hr)	<u>2</u>	—
	Gamma Detection Instruments (Ion Chamber) 0-1000 R/hr	<u>1</u>	—
	<u>Box C</u>		
	TLD Badges (and one Record Card)	<u>5</u>	—
	Steno Pad with two pencils	<u>1</u>	—
	Personnel Dosimeters	<u>10</u>	—
	Dosimeter Charger	<u>1</u>	—
	Contact Pyrometers	<u>2</u>	—

Inventory Performed By: \_\_\_\_\_

Date: \_\_\_\_\_

## Attachment 5.1 (continued)

## QUARTERLY INVENTORY

HP/RADWASTE EMERGENCY KIT #3

Duke Power Company General Office

	<u>Item</u>	<u>Number In Plan</u>	<u>Number In Inventory</u>
1.	Tool Kit	<u>1</u>	—
2.	Portable Air Sampler	<u>1</u>	—
3.	Silver Zeolite Cartridges	<u>10</u>	—
4.	Copy of NAC-1 Drawings (Prints)	<u>1</u>	—
5.	Copy of Loading and Unloading Instructions	<u>1</u>	—
6.	Respirator Mask w/filters	<u>1</u>	—

Inventory Performed By: \_\_\_\_\_

Date: \_\_\_\_\_

## Attachment 5.2

## CRISIS MANAGEMENT

## QUARTERLY INVENTORY

## ADMINISTRATION AND LOGISTICS FIRST AID SUPPLIES

Location - Catawba Warehouse #2/Level A Storage

<u>Item</u>	<u>No. In Plan</u>	<u>No In Inventory</u>	<u>On Order</u>
2 x 2's	4 Boxes	_____	----
4 x 4's	8 Boxes	_____	----
8" x 7½" ABD's	2 Boxes	_____	----
8" x 10" ABD's	2 Boxes	_____	----
10" x 30" Multi-Trauma Dressing	24	_____	----
2" x 3" Telfa Pads	2 Boxes	_____	----
3" x 4" Telfa Pads	2 Boxes	_____	----
2" x 3" Adhesive Telfa Pads	2 Boxes	_____	----
3" x 4" Adhesive Telfa Pads	2 Boxes	_____	----
2" Kling	1 Case	_____	----
3" Kling	1 Case	_____	----
4" Kling	1 Case	_____	----
6" Kling	1 Case	_____	----
2" Ace Elastic Bandages	2 Boxes	_____	----
3" Ace Elastic Bandages	2 Boxes	_____	----
4" Ace Elastic Bandages	2 Boxes	_____	----
2" Coban	4 Boxes	_____	----
3" Coban	4 Boxes	_____	----
4" Coban	2 Boxes	_____	----
½" Dermicel Cloth Tape	2 Boxes	_____	----
1" Dermicel Cloth Tape	2 Boxes	_____	----
2" Dermicel Cloth Tape	1 Box	_____	----
1" Dermicel II Paper Tape	1 Box	_____	----
1" Waterproof Adhesive Tape	1 Box	_____	----
2" Waterproof Adhesive Tape	1 Box	_____	----
Oval Eye Pads	1 Box	_____	----
1" x 3" Coverlet Band-aids	4 Boxes	_____	----
Coverlet Knuckle Dressings	4 Boxes	_____	----



## Attachment 5.2 (continued)

<u>Item</u>	<u>No. In Plan</u>	<u>No. In Inventory</u>	<u>On Order</u>
Coverlet Large Digit Dressing	2 Boxes	—	----
Non-sterile Cotton Tipped			
Applicators	4 Boxes	—	----
Sterile Cotton Tipped Applicators	2 Boxes	—	----
Tongue Blades	1 Box	—	----
Burn Sheets	24	—	----
Disposable Ice Packs	48	—	----
Alumafoam Finger Splints	2 Boxes	—	----
Steri-Strips	2 Boxes	—	----
10-Pack 4 x 4's	26	—	----
Visine	2 Btls.	—	----
Dacrose (Isotone)	4 Btls.	—	----
Neosporin Ophthalmic	2 Btls.	—	----
Vasocon-A	1 Btl.	—	----
Boric Acid Eye Ointment	3 Tubes	—	----
Zephiran Antiseptic	1 Gal.	—	----
Alcohol	3 Btls.	—	----
Hydrogen Peroxide	3 Btls.	—	----
Merthiolate	3 Btls.	—	----
Silvadene (1 lb.)	1 Jar	—	----
Neosporin	2 Boxes	—	----
Neosporin-G	1 Tube	—	----
Betadine Ointment	3 Boxes	—	----
Betadine Prep Swab	3 Boxes	—	----
Alcohol Prep Swab	4 Boxes	—	----
Betadine Scrub	1 Gal.	—	----
Tincture of Benzoin	1 Btl.	—	----
Oil of Cloves	1 Btl.	—	----
Topical Antiseptic	2 Cans	—	----
Irrigating Saline	6 Btls.	—	----
Aspirin	1 Btl.	—	----
Tylenol	1 Btl.	—	----
Maalox	2 Btls.	—	----

## Attachment 5.2 (continued)

<u>Item</u>	<u>No. In Plan</u>	<u>No. In Inventory</u>	<u>On Order</u>
Pepto Bismol	2 Btls.	—	----
Ralk Splinter	1 Pr.	—	----
Bandage Scissors	2 Pr.	—	----
Kelly-Murphy Hemostat, Straight	1 Pr.	—	----
Kelly-Murphy Hemostat, Curved	1 Pr.	—	----
Halstead Mosquito Forceps, Straight	1 Pr.	—	----
Halstead Mosquito Forceps, Curved	1 Pr.	—	----
Bard-Parker Survical Handle, #3	1	—	----
Bard-Parker Blades, #11 & 15	2 Boxes	—	----
Ophthalmoscope	1	—	----
Thermometers, Oral	12	—	----
Folding Stretchers	4	—	----
C-Cell Flashlights	4	—	----
7½ Volt Lanterns	2	—	----
Maps from Charlotte to All Sites	1 each	—	----
Maps from Site to Nearest Hospital	1 each	—	----
Disposable Coveralls	8 Prs.	—	----
Safety Belts	2	—	----
3/4" Rope in 100 ft. Sections	2	—	----
1/2" Rope in 50 ft. Sections	4	—	----
Leather Gloves	8 Pr.	—	----
5 Gal. Drinking Water Containers	2	—	----
Meals Pre-Packed Food	48	—	----
2 Burner Propane Stove	1	—	----
Propane Gas	2 Btls.	—	----
Cots	2	—	----
Blankets	12	—	----
Hand Towels	24	—	----
Assorted Plastic Bags	24	—	----
Pot	1	—	----
Fry Pan	1	—	----

## Attachment 5.2 (continued)

<u>Item</u>	<u>No. In Plan</u>	<u>No. In Inventory</u>	<u>On Order</u>
Paper Plates	1 Pkg. (100)	---	----
Styrofoam Cups	100	---	----
Knives, Forks & Spoons	1 Box	---	----

Location - General Office/Safety Department

<u>Item</u>	<u>No. In Plan</u>	<u>No. In Inventory</u>	<u>On Order</u>
* Full-Face Respirators	2		----
* HEF Cartridge Filters	10		----

Additional Items on Hand

8 C-Cell Batteries  
 2 7½ Volt Batteries  
 1 30-cup coffee pot  
 4 extra disposable coveralls  
 1 emesis basin

\* Received in General Office; awaiting shipment to Catawba.

Inventory Performed By: \_\_\_\_\_

Date: \_\_\_\_\_

Attachment 5.3  
QUARTERLY INVENTORY  
COMMUNICATIONS EQUIPMENT  
McGuire CMC/CNC

	<u>Item</u>	<u>Number In Plan</u>	<u>Number In Inventory</u>
1.	Regular Telephones	<u>58</u>	—
2.	Speakerphones	<u>7</u>	—
3.	Radio Consoles	<u>1</u>	—
4.	Ringdown Phones	<u>3</u>	—
5.	25-Foot Extension Lines	<u>2</u>	—
6.	Sound Powered Head- Phones	<u>12</u>	—

Inventory Performed By: \_\_\_\_\_

Date: \_\_\_\_\_

## Attachment 5.3 (continued)

QUARTERLY INVENTORY  
COMMUNICATIONS EQUIPMENT  
OCONEE CMC/CNC

	<u>Item</u>	<u>Number In Plan</u>	<u>Number In Inventory</u>
1.	Regular Telephones	<u>19</u>	—
2.	Speakerphones	<u>0</u>	—
3.	10-Foot Extension Lines	<u>0</u>	—

Inventory Performed By: \_\_\_\_\_

Date: \_\_\_\_\_

## Attachment 5.3 (continued)

QUARTERLY INVENTORY  
COMMUNICATIONS EQUIPMENT  
OCONEE CMC

	<u>Item</u>	<u>Number In Plan</u>	<u>Number In Inventory</u>
1.	Regular Telephones	<u>30</u>	—
2.	Speakerphones	<u>5</u>	—
3.	Radio Consoles	<u>1</u>	—
4.	Ringdown Phones	<u>6</u>	—
5.	10-Foot Extension Lines	<u>5</u>	—
6.	Sound Powered Head- Phones	<u>12</u>	—

Inventory Performed By: \_\_\_\_\_

Date: \_\_\_\_\_

Attachment 5.4

QUARTERLY INVENTORY

ADMINISTRATION & LOGISTICS EMERGENCY SUPPLIES

Location: In Dedicated Trailer

<u>Item</u>	<u>Number In Plan</u>	<u>Number In Inventory</u>
1.		

## Attachment 5.5

## QUARTERLY INVENTORY

## ADMINISTRATION &amp; LOGISTICS EMERGENCY SUPPLIES

LOCATION: GENERAL OFFICE

<u>Item</u>	<u>Number In Plan</u>	<u>Number In Inventory</u>
Letter Size File Folders	1 Box	_____
#10 Plain White Envelopes	100 ea.	_____
#10 Envelopes w/Charlotte Address	100 ea.	_____
Reusable Interoffice Envelopes	1 Box	_____
Steno Notebooks	12 ea.	_____
5 x 8 White Scratch Pads	24 ea.	_____
4 x 6 White Scratch Pads	12 ea.	_____
8½ x 11 Wht. Ruled Pads	12 ea.	_____
8¼ x 11 Yellow Legal Pads	12 ea.	_____
Telephone Message Pads	20 Pads	_____
Ltr. Size Typewriter Carbon Paper	1 Box	_____
8½ x 11 Xerocopy Paper	2 pks.	_____
Blue Copy Sheets	1 pk.	_____
Yellow Copy Sheets	1 pk.	_____
Letterhead w/Char. Return Address	1 pk.	_____
Typewriter Ribbons (Cor. Selectric)	12 ea.	_____
Lift Off Tapes (for Cor. Selectric)	6 ea.	_____
White Correction Fluid	2 Btls.	_____
Typewriter Erasers	12 ea.	_____
#2 Pencils	48 ea.	_____
Black Med. Point Pens	36 ea.	_____
Blue Med. Point Pens	36 ea.	_____
Red Med Point Pens	36 ea.	_____
Scissors	2 ea.	_____
Vacuum Mount Pencil Sharpeners	4 ea.	_____
Desk Top Staplers	3 ea.	_____
Standard Staples	3 Bx.	_____
Staple Removers	4 ea.	_____
Medium Paper Clips	2 bx.	_____



## Attachment 5.5 (continued)

<u>Item</u>	<u>Number In Plan</u>	<u>Number In Inventory</u>
Tape Erase w/Dispenser	2 ea.	_____
Transparencies	100 ea.	_____
Rubberbands (#18)	1 pack	_____
Letter Openers	2 ea.	_____
12" Wooden Rulers	10 ea.	_____
Legal Size Clipboard	1 ea.	_____
Letter Size Clipboard	1 ea.	_____
8½ x 14 Xerocopy Paper	1 pack	_____
File Folder Labels Wht. w/Blue	1 Bx.	_____
Name Tags (Hello My Name Is)	1 Carton	_____
Trash Can Liners	30 ea.	_____
Black China Markers	10 ea.	_____
Red - Watercolor Markers	12 ea.	_____
Blue - Watercolor Markers	12 ea.	_____
Black - Watercolor Markers	12 ea.	_____
Dictionary	1 ea.	_____
Wire Ltr. Size File Trays	15 ea.	_____
Disposable Ash Trays	1 Case	_____
Flashlight Batteries D Size	72 ea.	_____
Safety Wands	1 Bx.	_____
Flashlights	24 ea.	_____
7½ Volt Batteries	36 ea.	_____
Spotlights	25 ea.	_____
Metal Name Card Holders	6 ea.	_____
Telecopiers	2 ea.	_____
Typewriter Table	1 ea.	_____
Bulldog Forms	1 bx.	_____
Envelope Containing Stamp Pads, Holders and ID Stamps for VISITOR CONSTRUCTION	1 ea.	_____
Wooden Placecard Holders and Placecards	1 Carton	_____

Attachment 5.6

QUARTERLY INVENTORY

SCHEDULING/PLANNING GROUP

EMERGENCY SUPPLIES

LOCATION: GO/MCGUIRE CMC/OCONEE CMC

Item

Number In Plan

Number In Inventory

Inventory Performed By: \_\_\_\_\_

Date: \_\_\_\_\_

CRISIS MANAGEMENT PLAN  
IMPLEMENTING PROCEDURE

5.3.14

"Duke Power Company,  
Crisis Management Center,  
Environmental Monitoring for Emergency Conditions  
Within the Ten Mile Radius of McGuire Nuclear Station"

Rev. 3  
April 30, 1982

DUKE POWER COMPANY  
CRISIS MANAGEMENT CENTER  
ENVIRONMENTAL MONITORING FOR EMERGENCY CONDITIONS  
WITHIN THE TEN MILE RADIUS OF MCGUIRE NUCLEAR STATION

1.0 PURPOSE

- 1.1 To provide long term coordination of environmental monitoring following an unplanned release of radioactive material in excess of McGuire Nuclear Station Technical Specifications to the environment. This procedure will replace station procedure HP/OB/1009/04 once the Crisis Management Center is activated.

2.0 REFERENCES

- 2.1 Station Directive 3.8.1 (Site Assembly and Evacuation).  
2.2 EP/O/A/5000/29, (Effluent Technical Specifications Exceeded).  
2.3 EP/O/A/5000/31 (Unusual Event)  
2.4 EP/O/A/5000/32 (Alert)  
2.5 EP/O/A/5000/33 (Site Emergency)  
2.6 EP/O/A/5000/34 (General Emergency)  
2.7 HP/O/B/1009/04 (Environmental Monitoring for Emergency Conditions)  
2.8 NUREG-0654, Criteria for Preparation and Evaluation of Radiological Emergency Response Plans and Preparedness in Support of Nuclear Power Plants.  
2.9 NUREG-0610, Draft Emergency Action Level Guidelines for Nuclear Power Plants.  
2.10 Duke Power Company Radio Operators Manual

3.0 LIMITS AND PRECAUTIONS

- 3.1 The Field Monitoring Coordinator (FMC) shall report to the Station Health Physicist (Technical Support Center) once the Emergency Plan and Organization has been implemented.  
3.2 The FMC shall report to the Off-Site Radiological Coordinator (System Health Physicist or designee) once the Crisis Management Center has been manned and is operational.  
3.3 Environmental sampling during emergency conditions shall not replace, but rather supplement normal environmental monitoring.  
3.4 Survey teams shall don particulate masks when airborne particulate activity is  $>3 \times 10^{-9} \mu\text{c/ml}$  gross  $\beta\gamma$ , or  $6 \times 10^{-13} \mu\text{c/ml}$   $\alpha$ .

3.5 If teams expect to be exposed to Iodine-131 in excess of 10 MPC ( $9 \times 10^8$   $\mu\text{C}/\text{ml}$ ) they shall ingest 150 milligrams (1 tablet) of potassium iodide, utilizing the supply kept at the station by Health Physics.

3.6 Survey teams shall don protective clothing at contamination levels  $>2000$  dpm/100  $\text{cm}^2$  Beta-gamma,  $>500$  dpm/100  $\text{cm}^2$  alpha.

#### 4.0 PROCEDURE

4.1 Upon notification by the Technical Support Center, that members of the Crisis Management Center have assembled, the assigned emergency environmental monitoring survey teams from the station will report in to the FMC at the Crisis Management Center in order to turn over the direction of offsite sampling responsibilities at the earliest convenient time.

NOTE: The emergency environmental monitoring survey teams from the station will have already assembled and commenced emergency sampling per station Health Physics Manual Section 18.2 under direction of the Technical Support Center.

4.2 The FMC will notify the Field Monitoring Organization (Enclosure 5.1) to assemble at the Crisis Management Center at the end of the Shift or other convenient time to relieve the station monitoring teams of offsite sampling responsibilities.

4.3 The Crisis Management Center monitoring teams will assume the responsibility of offsite sampling at the earliest convenient time to allow the station monitoring team to return to the station.

4.4 Five field monitoring teams consisting of two (2) technicians per team and one (1) helicopter team, the pilot and (1) H.P. Technician shall be formed as follows:

<u>Teams</u>	<u>Call Sign</u>	<u>Transportation</u>
A	"Alpha"	Chemistry vehicle #4352 Chevrolet Suburban
B	"Bravo"	Health Physics Vehicle #7632 Jeep Cherokee
C	"Charlie"	Administration Vehicle #7105 Ford Station Wagon
D	"Delta"	Maintenance Vehicle #8031 Ford Pick-up
E	"Echo"	1978 Dixie Emergency Boat
F	"Foxtrot"	Helicopter

4.5 Coordinator Action

4.5.1 The FMC shall obtain meteorological information from

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the Dose Assessment Coordinator.

- 4.5.1.1 The FMC shall be located in the Crisis Management Center (once established) and report to the Off-Site Radiological Coordinator.
- 4.5.1.2 The FMC shall direct environmental surveillance and the preparation of status reports.
- 4.5.1.3 The FMC shall direct the efforts of the Field Teams in obtaining pertinent field measurements and implement monitoring strategies and sample collection requirements.
- 4.5.1.4 The FMC shall advise the Dose Assessment Coordinator of results of field measurements.
- 4.5.1.5 The FMC shall assure adequate staffing and resources for the Field Teams.
- 4.5.1.6 The FMC shall inform the Technical Support Center (Station Health Physicist) of sampling results once received from the monitoring teams or the Laboratory Analysis Coordinator.

#### 4.6 Team Action

- 4.6.1 The FMC shall dispatch Field Teams A, B, and C to predetermined survey points within the downwind sector.
  - 4.6.1.1 The predetermined sampling locations are listed in Enclosure 5.2. The sector to be monitored or the "plume" patch shall be determined by placing nomograph overlays on a map in the opposite direction. The sectors to be monitored are subject to change based on wind and meteorological conditions.
- 4.6.2 The survey teams shall maintain open communications with the FMC of the Crisis Management Center informing him of sample results at each predetermined survey point. Record all sample results on appropriate survey forms (Enclosure 5.6).

NOTE: The monitoring teams shall use proper radio protocol when using the two-way radios for communications.

#### 4.7 At each survey point, the survey teams shall:

- 4.7.1 Take an air sample ( $10^6$  ml) utilizing a Silver Zeolite (CP-100G) cartridge and particulate filter.
  - 4.7.1.1 Using the SAM-2, count the sample for (2) two minutes for  $I^{131}$  per H.P. Procedure



HP/O/B/4600/37. Record results.

- 4.7.1.2 Report air sample results in corrected counts per minute.
- 4.7.2 Perform a general area  $\beta$  survey at 3' from the ground. Record results.
  - 4.7.2.1 Report results to the FMC in mR/hr.
- 4.7.3 Take smears and water samples as directed by the FMC. Record time and location. Results will be recorded on appropriate sample forms. (Enclosure 5.6) when samples are processed.
- 4.7.4 Retain all samples for future analysis.
- 4.7.5 Place TLD's at locations designated by the FMC and record the time.
- 4.7.6 Collect air samples and TLD's that are located in the environment as part of the normal environmental monitoring program as instructed by the FMC. Record locations and related times. Locations of air samplers and TLD's are listed in Enclosure 5.7.
- 4.7.7 Label all samples and return them to the Crisis Management center for analysis as directed by the FMC. The teams shall be supplemented, relieved, or secured as directed by the Field Monitoring Coordinator.
- 4.8 In the course of their monitoring, the survey teams may be utilized to inform unknowing persons they encounter in the area, should area evacuations become imminent.

NOTE: This (informing persons) is not to interfere with emergency monitoring.
- 4.9 Once the extent of the release is known, survey teams shall continue to monitor survey points as directed by the FMC in order to observe changes in radiation/contamination levels and/or locations.
- 4.10 The emergency environmental survey teams shall be supplemented, relieved, or secured as directed by the FMC upon conferring with other members of the Offsite Radiological Sampling Group of the Crisis Management Center.

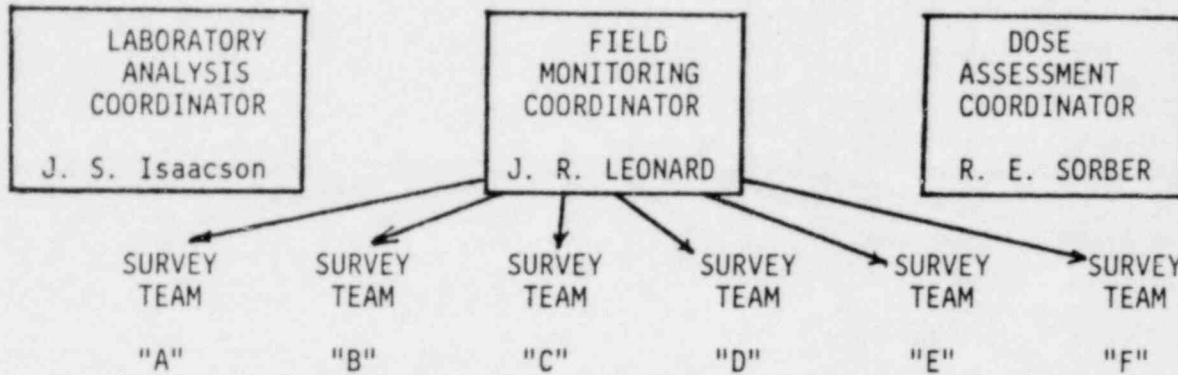
## 5.0 ENCLOSURES

- 5.1 Field Monitoring Organization (Names & Telephone Numbers of Members).
- 5.2 List of Designated Survey Points.

- 5.3 List of Designated Limnological Sample Points.
- 5.4 Map of 10 Mile Radius with Predetermined Survey Points
- 5.5 List of Contents of Survey Kits.
- 5.6 Survey Forms.
- 5.7 Location of Env. TLD's and Air Samplers.
- 5.8 Procurement of Helicopter for Emergency Environmental Surveillance.
- 5.9 Map of Designated Survey Points Inside the 2500' Exclusion Area Boundary.
- 5.10 Field Monitoring Team Log Sheet.



IMPLEMENTING PROCEDURE 5.3.14  
ENCLOSURE 5.1  
FIELD MONITORING ORGANIZATION



Catawba Nuclear Station Personnel

Microwave No. 7073, 7106, 188-2932

Phillip Deal, Station Health Physicist

Bell Line 831-2282, 324-3128

Maurice McClettie	Wes Sturgis
William Dixon	Fletcher Wilson
Rick Dove	Tammie Hindman
*Jerry Mode	Robert Deshazo
John Threatt	Grady Lane
Rich Wright	Barry Kimray
Tim O'Donohue	Cue Williamson
Ron Rivard	Sam Powell
Mike Moses	Doug Baysinger
Steve Jones	Nancy Strickland
Scott Ledford (	Harold McCullough
	Brenda Wells
	Barbara Johnes
	Linda Thompson
	Rick Greene

\*Alternate Field Monitoring Coordinator

ENCLOSURE 5.1 (cont.)

SYSTEM  
ENVIRONMENTAL LABORATORY  
PERSONNEL

Jan Williams

Bill Foris

Paulie Whitcomb

Aileen Lockhart

Steve Johnson

Larry Miller

Jerry Harris

Bill Piercy

Herb Magill

Wayne Harden

Paul White

Cindy Knox

Tom Yocum

ENCLOSURE 5.2

List of Designated Survey Points  
(McGuire Nuclear Station)

1. One mile up lake from the plant.
2. West end of SR 2151
3. South end of SR 2160
4. Intersection of SR 1100 (Mayhew Road) and SR 2065
5. South end of SR 1459
6. South end of SR 1841 (Webb Chapel Road)
7. Intersection of SR 1100 (Mayhew Road) and SR 1177
8. Intersection of SR 1115 and SR 1455
9. One mile from plant on Lake Norman
10. Emergency boat ramp at shoreline
11. Southwest end of Belle Isle Drive off of SR 2149
12. Intersection of 2151 and 2149
13. Intersection of SR 2189 (Bethel Church Road) and Staghorn Drive
14. West end of SR 1102 (Williamson Chapel Road) in All Seasons Campground
15. Intersection of SR 1100 (Mayhew Road) and SR 1111 (Tom White Road)
16. South end of SR 1113 (Isle of Pines Road)
17. West end of SR 1194
18. Flagpoles at entrance to Technical Training Center
19. One mile from plant on Lake Norman
20. South end of SR 2148 (Nance Road)
21. Knox Grill at intersection of State Highway 73 and SR 2159 (Knox Road)
22. Intersection of Interstate 77 and SR 2158 (Goodrum Drive)
23. Intersection of State Highway 115 and SR 1137 (Midway Lake Road)
24. Intersection of SR 1137 (Midway Lake Road) and SR 1136 (J.P. White Road)
25. South end of bridge over discharge canal
26. One mile from plant on the lake
27. West end of SR 2145 (Norman Island Drive) Intersection of Norman Drive and Island Drive
28. Intersection of U.S. Highway 21 and SR 2147
29. Intersection of State Highway 115 and SR 2416 (Bailey Road)
30. Bridge over Rocky River on State Highway 73 between SR 2420 and SR 2422
31. Intersection of SR 2418 (Shearer Road) and SR 2419

ENCLOSURE 5.2 (cont.)

32. Intersection of Construction Access Road and SR 2182 (Hager Ferry Road)
33. One mile from plant on Lake Norman
34. East end of SR 2148 (Babe Stillwell Farm Road)
35. Intersection of U.S. Highway 21 and SR 2145 (Sam Furr Road)
36. South end of SR 2438 (Hagers Road - right fork)
37. Intersection of SR 2427 (McCord Road) and SR 2439 (Ramah Church Road)
38. Intersection of SR 2442 and SR 2426 (Huntersville - Concord Road)
39. Construction Access Road at the Construction Yard end just north of the clearing viewing the Standby Nuclear Service Water Pond.
40. Approximately 1 mile on Hubbard Road of Hwy. 73
41. Intersection of SR 2128 (Beatties Ford Road) and SR 2136 (Gilead Road)
42. Intersection of SR 2136 (Gilead Road) and SR 2131 (Bud Henderson Road)
43. Intersection of SR 2136 (Gilead Road) and SR 2139 (Ranson Road)
44. Intersection of U.S. Highway 21 and SR 2004 (Mt. Holly-Huntersville Road)
45. Intersection of SR 2442 (Asbury Chapel Road) and SR 2445
46. Intersection of 2459 (Eastfield Road) and SR 2475 (Prosperity Church Road)
47. End of Hubbard Road
48. Intersection of SR 2138 (Beatties Ford Road) and SR 2133 (Stevens Road)
49. Intersection of SR 2117 (Hambright Road) and SR 2120 (McCoy Road)
50. Intersection of SR 2004 (Mt. Holly-Huntersville Road) and SR 2116 (Alexanderana Road)
51. Intersection of Interstate 77 and SR 2110 (Reames Road)
52. Intersection of State Highway 115 and SR 2631 (Beechwood Mobile Homes Park entrance)
53. Entrance to McGuire Firing Range on State Highway 73
54. Approximately 1 mile west on SR 2133
55. Intersection of SR 2128 (Beatties Ford Road) and SR 2129 (Jim Kidd Road)
56. Intersection of SR 2074 (Beatties Ford Road) and SR 2117 (Hambright Road)
57. Intersection of SR 2074 (Beatties Ford Road) and SR 2125
58. Intersection of SR 2004 (Mt. Holly-Huntersville Road) and SR 2075 (Riverview Drive)
59. Intersection of SR 2025 (Miranda Road) and SR 2043
60. Intersection of SR 2019 (Peachtree Road) and SR 2027 (Cora Ave.)

ENCLOSURE 5.2 (cont'd)

61. South side of State Highway 73, 20 yards east of the McGuire Steam Production entrance
62. West end of SR 2132 (Stevens Road)
63. Intersection of SR 2074 (Neck Road) and SR 2127 (Allison Ferry Road)
64. Intersection of SR 1912 (Horseshoe Bend Beach Road) and SR 1913
65. Intersection of SR 2004 (Mt. Holly-Huntersville Road) and SR 2001 Pump Station Road - Charlotte water)
66. Bridge over Long Creek on State Highway 16 between SR 1664 and SR 2005
67. Intersection of SR 1771 (Cathey Road) and SR 1769 (Tom Sadler Road)
68. North side of State Highway 73 where the railroad tracks from McGuire and State Highway 73 become parallel.
69. West end of SR 2127 (Allison Ferry Road)
70. West end of SR 2074 (Neck Road)
71. Water tower across from Riverbend Steam Station on SR 1912
72. Intersection of State Highway 16 and SR 1911
73. Pinewood Elementary School on State Highway 273 south of Mountain Island Dam entrance
74. Intersection of State Highway 273 and State Highway 27
75. Dam at Waste Water Collection Basin. Access through O.C. Gate #5 (South River Gate)\*
76. Railroad crossing on SR 1396 (Killian Road) between SR 1397 and SR 1909
77. Intersection of SR 1968 and SR 1909 approximately .5 mile past Gaston County line
78. Lucia Fire Department in Lucia on State Highway 16
79. Bridge over Dutchmans Creek on SR 1905 (Upper Stanley Road) between SR 1820 and SR 1919
80. Intersection of SR 1919 (Stanley Road) and SR 1918 (Sandy Ford Road)
81. Intersection of SR 1935 (Stanley Road) and SR 1923 (Old N.C. 27)
82. Riverband at maximum width of island. Access through O.C. Gate #7 (Lower Dam Access)\*

\*Contact Shift Lieutenant at Ext. 4432 or via emergency radio for access

ENCLOSURE 5.2 (cont.)

83. Bridge over Johnsons Creek on SR 1397 (Sifford Road) between SR 1396 and SR 1652
84. Bridge over Killians Creek on SR 1545 (Old Plank Road) between State Highway 16 and SR 139
85. Bridge over Leepers Creek on SR 1820 (Alexis-Lucia Road) between SR 1907 and SR 1902
86. Intersection of SR 1902 (Mariposa Road) and SR 1906
87. Intersection of State Highway 27 and SR 1903 (Lawrence Road)
88. Riverbank at north tip of island. Access through O.C. Gate #7 (Lower Dam Access)\*
89. Intersection of Hwy 73 and SR 1528
90. Intersection of State Highway 73 and SR 1543
91. Picnic area south of railroad crossing on State Highway 16 between SR 1394 and SR 1397
92. Intersection of SR 1545 (Old Plank Road) and SR 1412 (Mariposa Road)
93. Bridge over Leepers Creek (north branch) on Sr 1404 between SR 1535 and SR 1403
94. Intersection of SR 1360 (Tuckers Camp Ground Road) and SR 1361
95. Cowans Ford Dam - east end. Access through O.C. Gate #10.\*
96. Intersection of State Highway 73 and SR 1393
97. Hwy 16 at Turbyfill Nursery
98. East Lincoln High School at intersection of State Highway 73 and SR 1386
99. Bridge over Anderson Creek on SR 1385 (Anderson Branch Road) between State Highway 73 and SR 1383
100. Bridge over Anderson creek on SR 1360 (Tuckers Camp Ground Road) between SR 1382 and SR 1384
101. Intersection of SR 1362 (Mechpelah Road) and State Highway 73
102. SR 1395 at Lake Norman Overlook
103. Intersection of SR 1393 and SR 1568 (Nixon Heights entrance)

\*Contact Shift Lieutenant at Ext. 4432 or via emergency radio for access

ENCLOSURE 5.2 (cont.)

- 104. Railroad crossing east of Forney Creek on SR 1380 (Triangle Road) between SR 1386 and SR 1387
- 105. Intersection of SR 1380 (Triangle Road) and SR 1381
- 106. Bridge over Killians Creek on SR 1373 (Denver Road) between State Highway 16 and SR 1360
- 107. Intersection of SR 1360 (Tuckers Camp Ground Road) and SR 1349
- 108. Bills Marina on SR 1395
- 109. East end of SR 1441
- 110. Beatties Ford Access Area on SR 1439
- 111. East end of SR 1495 in Westport
- 112. Intersection of SR 1379 and SR 1376
- 113. Intersection of SR 1375 and SR 1635
- 114. Barclays Mini-Market and Texaco on SR 1373



ENCLOSURE 5.3

List of Designated Limnological Sample Points

Huntersville Intakes - Sector D (East-Northeast) 2-3 miles.

Sample elevation - 742'

Accessible by land on SR 2145 (Norman Island Road)

Davidson Intakes - Sector B (North-Northeast) 5-6 miles

Sample elevation - 736'

Accessible by land on SR 2195 (Torrence Church Road)

Charlotte Intakes - Sector I (South) 5-6 miles

Sample elevation 635' - Unit 1 intake

640' - Unit 2 intake

637' - Unit 3 intake

Accessible by land on SR 2004 (Mt. Holly-Huntersville Road)

NOTE: 1. Full lake elevation is 760'

2. Catawba River spillway elevation (for Charlotte intakes) is 647' 6"



ENCLOSURE 5.5

Each survey team shall be equipped with an emergency kit containing as a minimum, the following:

Victoreen 497, Eberline E-520, or Xetex Mod 305A  
SAM-2 with RD-22 probe  
Portable air sampler with Silver Zeolite (CP-100G) filter cartridges and particulate filters.  
12VDC to 120VAC powerverter.  
One Norton 7600 or MSA dual side cartridge type particulate mask per team member.  
Emergency TLDs and high range personnel dosimeter.  
Emergency radio transmitter/receiver.  
Stopwatch  
Flashlight  
Protective Clothing  
Assorted poly bags  
Sample Bottles  
Limnological samplers  
Smears  
Survey forms  
Potassium Iodide tablets  
Small change for telephone to station  
A copy of HP/O/B/1009/04 (Environmental Monitoring for Emergency Conditions).  
Map of Ten Mile Zone with Predetermined Sampling Locations



ENCLOSURE 5.7

Collection of Air Samples

Sample #125  
Location: Below  
Settling Ponds

Take the dirt road in front of Warehouse #5, go to the bottom of the incline and around to the right after passing the settling ponds. The sampler is at the top of the hill to the left of Chemistry's storage shed.

Sample #134  
Location: East  
Lincoln Jr. High  
School

Return to McGuire's main entrance and make a right onto Hwy. #73. The school is located about 10 miles down Hwy. #73 toward Lincolnton. The sampler is located behind a small brick building that is to the left of the school.

Sample #133  
Location: Cornelius  
Substation

Return to Hwy. #73, make a left and go into Cornelius. Make a left onto N. Main (where Hwy #73 ends) and then the first right that crosses the railroad track. Turn left onto Zion Street and then a right at the next corner. The sampler is inside the fenced-in area around the substation.

Sample #121  
Location: Guard  
house at Technical  
Training Center

Return to Hwy #73 and make a right. Proceed to McGuire's Construction entrance. Take the first dirt road to the right after passing the Duke Power Environmental Laboratories. The sampler is on the hill across from the guard house at the new training center.

Sample #120  
Location: near  
H.P. Boat House

Proceed up the dirt road and around to the left. The sampler is located just before the H.P. Boat House entrance on the left side of the road.

## ENCLOSURE 5.7

### Collection of TLDs

- TLD #143-N Enter the McGuire Construction entrance and proceed to the guard house at the Technical Training Center. Turn left immediately after passing the guard house. Turn left on the first dirt road you come to, then right on the second dirt road you come to. Follow this road to the point. The TLD is in a white container on the point.
- TLD #144-NNE Return from the point and turn left where the two dirt roads intersect. Follow this road until it intersects the main dirt road. The TLD is located on your left, on the fence, at air sampling site #120, near H.P. boathouse.
- TLD #145-NE Return to the guard house at the Technical Training Center. The next TLD is located to the left of the guard house on the knoll, attached to the fence, at air sampling site #121.
- TLD #146-ENE Cross the discharge canal bridge. This TLD is located on the left, immediately after you cross the bridge, approximately 100 yards down the canal bank.
- TLD #147-E Return to the intersection, of the TTC road and the hard surface road (McGuire Construction entrance) and turn left. Turn left into the Systems Environmental Laboratory. This TLD is located on your right, on the fence, near the small blue storage building.
- TLD #148-ESE Return to the McGuire Construction entrance road and start heading away from the construction site. This TLD is located on your left on the last knoll approximately 25 feet into the woods, before you intersect Hwy. #73.
- TLD #149-SE At the intersection of Hwy. #73 and the McGuire Construction entrance turn right. The next TLD is located near the site fence approximately 25 feet off Hwy. #73 and approximately 300 feet east of the McGuire overlook entrance.
- TLD #150-SSE Enter the McGuire overlook. The next TLD is located west of the parking lot, on the site fence, in a white container.
- TLD #151-S Return to Hwy. #73, and enter the McGuire S.P. entrance. After entering the main gate, turn right so you are facing O.C. Gate #2. This TLD is located on the power pole, beside the power line tower, inside O.C. gate #2. (Contact security at Ext. 460 to get this gate and all other O.C. gates opened.)
- TLD #152-SSW Return to the McGuire S.P. entrance and turn right onto Hwy. #73. The next TLD is located on the RR right-of-way approximately 200 feet west of the S.P. entrance, in a white container.

ENCLOSURE 5.7 (cont.)

TLD #153-SW Re-enter the McGuire S.P. entrance and follow the road between the upper and lower parking lots. Immediately beyond the guard house turn left. Follow this road, below the chemistry settling ponds to O.C. Gate 5. Go through O.C. Gate 5, to a clearing on your left approx. half way down the road toward the continuous water sampler. The TLD is located in the clearing in a white container.

TLD #154-WSW Exit O.C. Gate 5 and follow the road back around past the chemistry settling ponds. Turn left on the dirt road, just before the hard surface road begins. Follow this road through O.C. Gate 7 (Lower Dam Access). The TLD is located on the river bank, left of the bank area that is rocked. The TLD is in a white container.

TLD #155-W The next TLD is located at the bottom of the earthen dam embankment near the end of the concrete wing wall of Cowan's Ford Dam. The first dirt road, (north of TLD site #154) leading to the bottom of the dam embankment, is used to arrive at TLD site #155.

TLD #156-WNW Exit O.C. Gate #7 and go to the top of the dam embankment. Enter O.C. #10 and travel the length of the dam, until you reach the concrete dam portion of Cowan's Ford Dam. The TLD will be on your left.

NOTE: TLD's for the 3-5 mile radius are numbered consecutively with one exception. Directions to TLD sites will be given in a clockwise direction beginning in the north sector, with TLD #157.

TLD #157-N Exit McGuire S.P. entrance go east on Hwy. #73 until you intersect I-77. Go north on I-77. Take exit #33 off I-77, turn left, cross back over I-77. Follow this road until it intersects S.R. 1100 (Brawley School Rd.). Turn left on S.R. 1100 and follow this road until it intersects S.R. 2160. Follow S.R. 2160 until you see the Duke Power sign at the Williamson Access area. The TLD is in a white container on the sign post.

TLD #158-NNE Return to I-77 and head south. Take the Lake Norman - Cornelius exit (Hwy. #73) traveling west. At the intersection of S.R. 2189 (Bethel Church Rd.) and Hwy. #73 turn right. The TLD is on the last power pole on the left of Bethel Church Rd.

TLD #159-NE Return to Hwy. #73, turn left, and turn left again on the road leading to Anchorage Marine shipyard at Holiday Harbor Marina. Follow this road to marina area. The TLD is on the power pole behind the shipyard building.

ENCLOSURE 5.7 (cont.)

- TLD #160-ENE Return to Hwy. #73, turn left and follow Hwy. #73 until it crosses over I-77. Take your first right after crossing I-77. Follow Hwy. #21 until it intersects S.R. 2147. Anchorage Marine Showroom will be on the left. The TLD is on the fence around the showroom.
- TLD #161-E Return to Hwy. #21 and proceed south. The next TLD is located on the right on the main power pole that feeds the meter pole at the intersection of Hwy. #21 and Sam Furr Rd.
- TLD #162-ESE Continue south on Hwy. #21 until you intersect Gilead Rd. Turn right, cross over I-77 and continue on Gilead Rd. until you intersect S.R. 2139. Turn right on S.R. 2139. The TLD will be on the first power pole on your left.
- TLD #163-SE Go back to Gilead Rd., and turn left. At the intersection of McCoy (S.R. 2138) and Gilead Rd. turn right. Follow McCoy road until it intersects Hambright Rd. The TLD is on the right, inside the fence at the Duke Power substation just above the road intersection.
- TLD #164-SSE Turn around, go back to Hambright Rd. and turn left. Follow Hambright Rd. until it intersects Beatties Ford Rd. This TLD is located on the left power pole where these two roads intersect.
- TLD #183-S  
(Control) Turn left at the above intersection. Follow Beatties Ford Rd. until it intersects S.R. 2004 (Mt. Holly - Huntersville Rd.) and turn right. Follow S.R. 2004 until it intersects S.R. 2001 (Pump Station Rd.) and turn right. Follow S.R. 2001 until it dead ends. The TLD is along the river bank just at the edge of the tall grass, in a white container.
- TLD #165-S Return to the intersection of Pump Station Rd. and Mt. Holly - Huntersville Rd. and turn right. Go to the intersection of Mt. Holly - Huntersville Rd. and Hwy. #16 and turn right. After crossing the Catawba River bridge, into Gaston County, turn right on the road that leads down beside River Bend Steam Station (Power Plant Rd.). Follow this road for approximately 2 miles. The TLD is on the power pole at the sharp bend (90°) in the road.
- TLD #166-SSW Turn around and come back up Power Plant Road. The next TLD is located on your left, on the water tank, across from River Bend Steam Station.
- TLD #167-SW Return to Hwy. #16 and turn right. The next TLD is located on the right-hand side of the road behind the Lucia Volunteer Fire Department Bldg. It is in a white container, back at the edge of the trees.



ENCLOSURE 5.7 (cont.)

- TLD #168-WSW Continue north on Hwy. #16 until it intersects S.R. 1511 (at the Lowesville road sign) and turn left. The TLD is located on your left, on the last power pole before crossing Killian Creek.
- TLD #169-W Return to Hwy. #16 and turn left. Follow Hwy. #16 until it intersects Kincaid Rd. (Kincaid Rd. is the road immediately north of Hills Chapel United Methodist Church on Hwy. #16). Turn left on Kincaid Rd. The TLD is located on the last power pole on your right at the end of the road.
- TLD #170-WNW Return to Hwy. #16, and turn left. Follow Hwy. #16 until it intersects Hwy. #73. Turn left on Hwy. #73. Follow Hwy. #73 until it intersects S.R. 1386. Turn left on S.R. 1386. The TLD is located on the second utility pole on the right from the intersection.
- TLD #171-NW Return to Hwy. #73 and turn right. Follow Hwy. #73 until it intersects Hwy. #16 and turn left on Hwy. #16. The next TLD is located at the East Lincoln Rescue Squad Bldg. on the radio antenna pole. The rescue squad bldg. is on the right hand side of Hwy. #16N.
- TLD #172-NNW Continue north on Hwy. #16. Turn right on Fairfield Rd. in the West Port Community. Follow Fairfield Rd. until it intersects S.R. 1619. Turn left on S.R. 1619. Follow S.R. 1642, off of S.R. 1619. Turn left off of S.R. 1619, just before it dead ends. The TLD is located on the telephone pole in the front yard at the home of T. L. McConnell. The house will be on your left. The house number is 625.
- NOTE: TLD's well removed from the site, are numbered consecutively, with three exceptions. Directions to the TLD sites will be given in a counter clockwise direction, beginning in the north sector, with TLD #173.
- TLD #173-W Return to Hwy. #16, and turn right. Follow Hwy. #16N to the caution light in Denver and turn right. Follow Campground Rd. (into Catawba County) until it intersects S.R. 1899 (just past Barkley's Mini Market) and turn right. Follow S.R. 1899 until it intersects S.R. 1845 and turn left. Follow S.R. 1845 until it intersects S.R. 1981 and turn left. The TLD is located on the first power pole on your left, and in the front yard of M.S. Glover.
- TLD #174-WNW Return to the caution light in Denver and turn left. Follow Hwy. #16S until it intersects Hwy. #73 and turn right. Follow Hwy. #73W. The next TLD is located, at E. Lincoln Jr. High, west of the main campus beside the well house. The TLD is on the fence at air sampling site.

ENCLOSURE 5.7 (cont.)

- TLD #175-WNW Return to Hwy. #73, turn right and follow Hwy. #73 until it joins Hwy. #27. Follow Hwy. #27 into Boger City. At the intersection of Hwy. #27 and S.R. 1003 (in front of Carolina Shopping Centr) turn back to the right. Follow S.R. 1003 until it intersects S.R. 1332 and turn left. Follow S.R. 1332 until it intersects S.R. 1500 and turn right. The TLD is located on the telephone pole in the back yard at the home of G.F. Terrell. His is the 8th house on the right of S.R. 1500.
- TLD #176-SW Return to Hwy. #27 and turn left. Follow Hwy. #27E through Stanley. At the intersection of Hwy. #27E and E. Dallas Rd. turn to the right. Follow E. Dallas Rd., until it intersects S. Main St. and turn left. Follow Hwy. #275 (to the right of Nichol's service station and grocery) until it intersects S.R. 2001 (dirt road) and turn left. Follow S.R. 2001 until it intersects S.R. 2393 (hard surface road) and turn left. The TLD is located on a cedar post in the back yard at the home of T. L. McGee. His is the 6th house on the left of S.R. 2393.
- TLD #177-S Return to Hwy. 27, turn right and follow Hwy #27E through Mt. Holly, across the Catawba River back into Mecklenburg County. Where the Mt. Holly - Huntersville Rd. joins Hwy. #27, turn back to your left. Follow the Mt. Holly - Huntersville Rd. until it intersects Hwy. #16 and turn to the right. Follow Hwy. #16S until it intersects Kentberry Dr. in the Coulwood Community and turn to the right. Turn left at the intersection of Kentberry and Belmorrow Dr. The TLD is located on the power pole in the front yard of J. R. Leonard. His address is 908 Belmorrow Dr.
- TLD #178-SE Return to Hwy. #16 and turn left. Follow Hwy. #16N until it intersects the Mt. Holly - Huntersville Rd. and turn right. Follow the Mt. Holly - Huntersville Rd. until it intersects Hwy. #11 (in Huntersville) and turn to the right. Follow Hwy. 115S until you come to Florida Steel in the Croft Community. The TLD is on the fence, inside the Duke Power substation to the right of Florida Steel, as you approach the plant.
- TLD #179-ESE Return to Hwy. #115 and turn left. Follow Hwy. 115N until it is joined by Eastfield Rd. Turn right on Eastfield Rd. Follow Eastfield Rd. until it intersects Prosperity Church Rd. Turn right on Prosperity Church Rd. The TLD is located approximately 2 miles down the road on the right, on the telephone pole in the front yard at the home of Dan Rains.
- TLD #182-ENE Return to Hwy. #115 and turn right. Follow Hwy. #115N into Cornelius. Turn right off of Hwy. 115N (just past the First Union National Bank) in front of Fred's Shoe Shop, then turn left on Zion St. The next TLD is located on the right, inside the Duke Power substation, at air sampling site 133.



ENCLOSURE 5.7 (cont.)

TLD #181-NE      Return to Hwy. #115, and turn right. Follow Hwy #115N until it intersects Potts St. (street just before railroad overpass) and turn left. Follow Potts Street until it intersects W. Walnut and turn left. The TLD is located on the power pole at the rear of the Davidson Water Works Bldg. The Davidson Water Works Bldg. will be the first bldg. on the right after turning on W. Walnut.

TLD #180-NE      Go to I-77. Follow I-77N until it intersects Hwy. 150. Follow Hwy. 150, to the right, off of I-77N. At the intersection of Hwy. 150 and 21 turn back to the left. Follow Hwy. 21N. The Mooresville Water Treatment Plant is on the left approximately .5 of a mile up Hwy. 21N. The TLD is on the telephone pole near the parking lot.

ENCLOSURE 5.8

PROCUREMENT OF HELICOPTERS FOR  
EMERGENCY ENVIRONMENTAL SURVEILLANCE

Inland Airways, Greenville, S. C., is under contract to Duke Power Company to furnish one helicopter upon request and an additional helicopter within six hours following notification. Once a helicopter is requested, there is a maximum elapsed time of three hours for the helicopter to arrive at Oconee or other dispatched locations.

Helicopter service is limited to daylight hours and adequate flying weather. The helicopters will hold three people, the pilot and two passengers. To perform surveys, instrumentation may limit the passenger space.

To obtain helicopter(s) for emergency service contact:

	<u>OFFICE</u>	<u>HOME</u>
1. W. M. Yelton*	704/373-4006	
2. L. W. Johnson*	704/373-4561	
3. L. M. Whisonant*	704/373-4977	
4. E. B. Shuler*	704/373-4914	

\*These contacts are in Duke Power Company Transmission Department, Line Division.

