

DUKE POWER COMPANY
CRISIS MANAGEMENT PLAN
IMPLEMENTING PROCEDURE 5.3.10

OCONEE NUCLEAR STATION-CRISIS
TELEPHONE DIRECTORY

Rev. 1
August 13, 1982

OCONEE NUCLEAR STATION

CRISIS MANAGEMENT TEAM
TELEPHONE DIRECTORY

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INCOMING LINES TO OCONEE NUCLEAR STATION

DIAL CODE - MICRO-WAVE

<u>From</u>	<u>Dial</u>
Seneca	Charlotte General Office
	Catawba Steam
	Catawba Construction
Easley	McGuire
	Cherokee
	Attendant (To access Bell Line)
Anderson	Seneca
Six Mile Island	Easley
	Anderson
	Six Mile

EMERGENCY NUMBERS

MEDICAL (Located in Maintenance Room of the
Oconee Training Center-last room on
left after going through Simulator
Room)

PICKENS COUNTY

Primary Number

Executive Group

County Administrator

EOC Director

Operation Group

Fire Protection

Police

Public Roads

Emergency Welfare Service

Damage Assessment

OCONEE COUNTY

Primary Number (24 hour)

Operations

Fire Protection

Police

Assessment

Emergency Welfare Services

Executive Group

Supervisor/Chairman County Council

GENERAL OFFICE RESPONSE LOCATIONS
(Alternate Crisis Center)

Administration and Logistics (Wachovia Room 1514) -----

Design and Construction (Electric Center 3-32)-----

Health Physics/Radwaste (Wachovia 2390)-----

NRC (Wachovia 1728)-----

Offsite Radiological Coordinator (Wachovia 2366)-----

*Recovery Manager (Wachovia 1680)-----

*Phones available for other groups in WC 1680-----
(Planning/Scheduling)

States and Counties (Wachovia 1400)-----

Technical Support (Wachovia 1760)-----

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

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

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

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

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

News Staff and Media (Electric Center Auditorium)-----

CRISIS MANAGEMENT CENTER

POSITION/NAME

PRIVATE LINE

ONS SWITCHBOARD

RECOVERY MANAGER

H. B. Tucker

Alternates:

W. O. Parker

R. M. Koehler

SCHEDULING/PLANNING MANAGER

R. W. Bostian

Alternates:

F. C. Hayworth

J. C. Leathers

HEALTH PHYSICS/RADWASTE MANAGER

W. A. Haller

Alternates:

R. C. Futrell

B. E. Davis

R. T. Simril

TECHNICAL SUPPORT

K. S. Canady

Alternates:

H. T. Snead

W. A. Coley

DESIGN AND CONSTRUCTION SUPPORT
MANAGER

J. L. Elliott

Alternates:

D. L. Freeze

S. K. Blackley

C. J. Wylie

S. B. Hager

OFFSITE RADIOLOGICAL COORDINATOR

L. Lewis

(Offsite Dose Projection)

Alternates:

W. P. Deal

M. S. Tuckman

Telephone Number
882-5363

POSITION/NAME

PRIVATE
LINE

ONS
SWITCHBOARD

ADMINISTRATION AND LOGISTICS
MANAGER

J. T. Moore

Alternates:

R. F. Smith

R. H. Lynn

R. N. Johnson

S. M. Kessler

E. D. Morton

ADVISORY SUPPORT

Nuclear Regulatory Commission

J. P. O'Reilly

Alternate:

F. J. Long

Babcock & Wilcox (NSSS Supplier)

J. D. Phinney

Alternate:

R. B. Kosiba

CORPORATE HEADQUARTERS

(Contact with Governor)

A. C. Thies

Alternate:

W. H. Owen

DATA COORDINATION

(Telecopier)

CRISIS NEWS CENTER

Telephone Number
882-5363

Position/Name

Private
Line

ONS
Switchboard

CRISIS NEWS DIRECTOR
Mary Cartwright

Alternate:
Ira Kaplan

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

PHONE NUMBERS FOR LIBERTY RETAIL OFFICE

Recovery Manager

Scheduling/Planning

Crisis News

Design and Construction

Technical Support

Offsite Radiological Coordinator

Administration & Logistics

Health Physics/Radwaste

NRC/State and Counties

TECHNICAL SUPPORT CENTER

Telephone Number
882-5363

<u>Position/Name</u>	<u>Outside Line</u>	<u>Station Number</u>
Emergency Coordinator J. E. Smith G. E. Vaughn, Alternate		
Supt. of Operations J. N. Pope		
Supt. of Technical Services T. B. Owens		
Supt. of Maintenance J. M. Davis		
Supt. of Administration J. T. McIntosh		
NRC Resident Engineer W. H. Orders		
B&W Resident Engineer B. W. Street L. H. Williams, Alternate		
Station Health Physicist C. T. Yongue		

HEALTH PHYSICS CENTER

Environmental Surveillance Coordinator
J. J. Sevic

Data Evaluation/Report Preparation Supervisor
(Off-Site Dose Projection)
C. Harlan

Surveillance and Control Coordinator
M. D. Thorne

Support Functions Coordinator
J. A. Long

Dosimetry Records

Telephone Number
882-5363

<u>Position/Name</u>	<u>Outside Line</u>	<u>Station Number</u>
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TECHNICAL SERVICES GROUP

Performance
T. S. Barr

Licensing and Projects
R. T. Bond

Chemistry
D. P. Rochester

OPERATIONAL SUPPORT CENTER

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

Operational Support Center Coordinator

W. E. Martin

Mechanical Maintenance Engineer

D. Thompson

I&E Engineer

R. Adams

Operations Group

Unit #3 Operations Offices

Nuclear Equipment Operators (Unit 1 & 2 Emergencies)
Nuclear Equipment Operators (Unit 3 Emergencies)
Medical Assistance

ADMINISTRATION GROUP (Not Located in TSC)

Administration Coordinator
Training & Safety
Contract Services
K-Mac
Security

Telephone Number
882-5363

<u>Position/Name</u>	<u>Outside Line</u>	<u>Station Number</u>
<u>CONTROL ROOM</u>		
Unit 1		
Unit 2		
Unit 3		
Shift Supervisor (Unit 1 & 2)		
Unit 3		
<u>TELECOPIER</u>		
Technical Support Center		

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.....
 - C. Corporate Communications (Unusual Event Only).....
3. STATION MANAGER
 - J. Ed Smith, Office
 - Home
4. BABCOCK AND WILCOX RESIDENT ENGINEER
 - Bill Street, Office
 - Home

(If Bill Street cannot be reached, call)

 - L. H. Williams, Office
 - Home
5. STATION HEALTH PHYSICIST/DUTY HEALTH PHYSICIST
 - C. T. Yongue, Office
 - Home

Superintendent of Technical Services

T. B. Owen, Office
Home

Superintendent of Maintenance

J. M. Davis, Office
Home

Superintendent of Operations

J. N. Pope, Office
Home

Superintendent of Administration

J. T. McIntosh, Office
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 cannot 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
Home

Vice-President, Steam Production

W. O. Parker, Jr., Office
Home

Manager, Technical Training Center

R. M. Koehler, Office
Home

Steam Production Operations

Duty Man

13. WATER DEPARTMENTS

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

Lake Keowee

Seneca, H. J. Balding, Office
Home

Lake Hartwell

City of Clemson

Mayor of Clemson, Office
Home

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

Clemson Administrator's Office
Home

Clemson Filter Plant (0700-1700)

Clemson University

President's Office
Home

(If the President cannot be reached, call)
Clemson University Physical Plant (0800-1630)

Anderson Water Works (24 Hr. Number)

(AGENCIES THAT MAY RESPOND TO AN EMERGENCY AT OCONEE NUCLEAR STATION)

LAW ENFORCEMENT

S. C. Highway Patrol (Greenville, S. C.)

S. C. Enforcement Division (Columbia, S. C.)

Communications Check-Officer-of-the-Day

BOMB DISPOSAL

Explosives Ordinance Disposal Control
(Forst Jackson, Columbia, S. C.)

RADIATION AND CONTAMINATION

REACTS, Department of Emergency (Oak Ridge, Tennessee)
(24 hr. number - after 1700 ask for Beeper number)....

DOE Emergency Radiological Monitoring Team (Aiken, S. C.)..

N. C. Division of Emergency Management
(North Carolina State Warning Point - 24 hours)

Georgia Department of Natural Resources
Environmental Radiation Program

Communication Check:

Bill Cline (0800-1700)
Jim Setser (0800-1700)

Georgia Civil Defense (0800-1700) - Operations Section
After Hours - Duty Officer

NUCLEAR REGULATORY COMMISSION

NRC Operations Center (via Bethesda Central Office)

NRC Operations Center (via Silver Spring Central Office ..

Health Physics Network to NRC Operations Center

NRC Operator (Via Bethesda Central Office)

US NRC, Region II(24 hr.)..

US NRC, Oconee Resident Inspector

(Home 803)...

BUS TRANSPORTATION

Anderson Retail Office (24 hr. number)
(Contact Ken Kernodle, George Wilson)

NATIONAL WEATHER SERVICE - METEOROLOGICAL BACK-UP SOURCE

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

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 cause 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 A separate phone that can be accessed by dialing A separate phone that can be accessed by the . . . 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 cords most often used are listed below:

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

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

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 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 jimmy 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 (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 . megahertz (the ONS administrative radio system operates at megahertz). The base station remotes are 50 watts, 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 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		Control Room
2. Crisis Management Center (Training Center)		CMC
3. Technical Support Center		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. LEC	[Handwritten box]		Pickens Co. LEC
Pickens Co. (Courthouse)			Pickens Co. (Courthouse)
Pickens Co. (C.D. Office)			Pickens Co. CD
5. Oconee Co. Civil Defense			Oconee Co.
6. State FEOC - Clemson			State FEOC

ALL ABOVE RADIOS MAY BE ACTIVATED BY DIALING ENCODING NO.

Field Monitoring Teams

<u>Location</u>	<u>Unit Call Letters</u>	<u>Identifier</u>
8. Field Monitor Coordinator		Leader
9. Field Monitor Team		Alpha
10. Field Monitor Team		Bravo

	<u>Location</u>	<u>Unit Call Letters</u>	<u>Identifier</u>
11.	Field Monitor Team		Charlie
12.	Field Monitor Team		Delta
13.	Field Monitor Team		Echo
14.	Field Monitor Team		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 5.3.11

MCGUIRE NUCLEAR STATION-CRISIS
TELEPHONE DIRECTORY

Rev. 1
August 13, 1982

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EMERGENCY NUMBERS

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

FIRE -----

SECURITY -----

POLICE -----

CHARLOTTE/MECKLENBURG BOMB DISPOSAL TEAM -----
OR 18TH ORDINANCE DEPARTMENT (EOD) -----

GENERAL OFFICE RESPONSE LOCATIONS
(ALTERNATE CRISIS CENTER)

Administration and Logistics (Wachovia Room 1514) -----

Design and Construction (Electric Center 3-32) -----

Health Physics/Radwaste (Wachovia 2390) -----

NRC (Wachovia 1728) -----

Offsite Radiological Coordinator (Wachovia 2366) -----

*Recovery Manager (Wachovia 1680) -----

 *Phones available for other groups in WC 1680 -----
 (Planning/Scheduling)

States and Counties (Wachovia 1400) -----

Technical Support (Wachovia 1760) -----

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

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

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

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

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

News Staff and Media (Electric Center Auditorium) -----

CRISIS MANAGEMENT CENTER
(Technical Training Center)
McGuire Nuclear Station

Switchboard

Extensions are connected through the Technical Training Center Switchboard and are for general use. All incoming calls to these numbers must go through the switchboard. The exchange numbers are provided for communication with the main office and outside agencies. Calls can be made on these lines to any 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 -----

Construction First Aid -----

Data Coordination Area -----
(Telecopier)

Design/Construction -----
and Technical Support

Health Physics/Radwaste -----

News Staff -----

Nuclear Regulatory Commission -----

Offsite Radiation Coordination -----

Recovery Manager -----

Scheduling/Planning -----

Technical Support -----

To call Plant from CMC -----

To call Construction Office from CMC -----

Central Processing Center (Accommodations) -----

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

To call General Office -----

CRISIS NEWS CENTER

TIE LINES FROM TECHNICAL TRAINING CENTER TO OTHER DUKE SITES

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

YOU MAY ALSO REACH A PARTICULAR STATION AND/OR EXTENSION NUMBER BY DIALING 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: + EXTENSION NUMBER OR OPERATOR
MCGUIRE TO TRAINING CENTER: + EXTENSION NUMBER OR OPERATOR

STEAM PRODUCTION (STATIONS) OUTSIDE LINES TIE LINES (81 TO GET ACCESS)

Allen

Belews Creek

Buck

Buzzard Roost

Catawba

Cliffside

Dan River

Lee

Marshall

Oconee

Oconee Training Center

Riverbend

McGuire

SMS

Environmental Services

CONSTRUCTION DEPARTMENT
(STATIONS)

OUTSIDE LINES

TIE LINES (81 TO GET ACCESS)

Catawba

Cherokee

McGuire

Oconee SSD

Station Support - Mt. Holly

McGuire Offsite Agency Telephone List

Counties

Mecklenburg Warning Point
Gaston Warning Point
Iredell Warning Point
Catawba Warning Point
Lincoln Warning Point
Cabarrus Warning Point

NOTE:

States

N.C. (E.O.C. Raleigh)
N.C. Warning Point
N.C. (SERT Headquarters, Air
National Guard Armory)

S.C. Emergency Preparedness
Division

S.C. Department of Health and
Environmental Control

DOE - Savannah River

NRC - Operation Center

American Nuclear Insurers

INPO

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. 4
July 9, 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 Health Physics Manual Section 18.2 once the Crisis Management Center is activated.

2.0 REFERENCES

- 2.1 Station Directive 3.8.1 (Site Assembly and Evacuation).
2.2 HP/O/B/1009/09, Release of Radioactive Materials Thru the Unit Vent Exceeding Technical Specifications.
2.3 HP/O/B/1009/10, Release of Liquid Radioactive Materials Exceeding Technical Specifications.
2.4 EP/O/A/5000/32 (Alert)
2.5 EP/O/A/5000/33 (Site Area Emergency)
2.6 EP/O/A/5000/34 (General Emergency)
2.7 Station H.P. Manual Section 18.2

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 $>3 \times 10^8 \mu\text{c/ml}$ gross $\beta\gamma$, or $6 \times 10^{13} \mu\text{c/ml}$ α .
3.5 If teams expect to be exposed to Iodine-131 in excess of 10 MPC ($9 \times 10^8 \mu\text{c/ml}$) 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 cm² Beta-gamma, >500 dpm/100 cm² alpha.
- 3.7 Survey teams shall wear high range personnel dosimetry provided in the kits when entering areas where suspected radiation levels may warrant.

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

the Dose Assessment Coordinator, who is in contact with the Corporate Meteorologist, and from the plant status sheet.

- 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 (10⁶ 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 I¹³¹.

Record results.

- 4.7.1.2 Report air sample results in corrected counts per minute.
 - 4.7.2 Perform a general area β 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 Form.
- 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

LABORATORY
ANALYSIS
COORDINATOR

J. S. Isaacson

FIELD
MONITORING
COORDINATOR

J. R. LEONARD

DOSE
ASSESSMENT
COORDINATOR

R. E. SORBER

SURVEY
TEAM

"A"

SURVEY
TEAM

"B"

SURVEY
TEAM

"C"

SURVEY
TEAM

"D"

SURVEY
TEAM

"E"

SURVEY
TEAM

"F"

Catawba Nuclear Station Personnel

Phillip Deal, Station Health Physicist

Microwave No

Bell Line

Maurice McClettie

William Dixon

Rick Dove

*Jerry Mode

John Threatt

Rich Wright

Tim O'Donohue

Ron Rivard

Mike Moses

Steve Jones

Scott Ledford

Wes Sturgis

Fletcher Wilson

Tammie Hindman

Robert Deshazo

Grady Lane

Barry Kimray

Cue Williamson

Sam Powell

Doug Baysinger

Nancy Strickland

Harold McCullough

Brenda Wells

Barbara Jones

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)

Example: A 3 - 1
 Evacuation Mile Sample
 Zone Radius Point

- X - 1 Flagpole at Technical Training Center.
- X - 2 South end of bridge over discharge canal.
- X - 3 Intersection of Construction Access Road and SR2182 (Hager Ferry Road).
- X - 4 Construction Access Road at the construction yard just north of the clearing, viewing the Standby Nuclear Service Water Pond.
- X - 5 Entrance to McGuire firing range on N.C. Highway 73.
- X - 6 South side of N.C. Highway 73, 20 yards east of the McGuire Steam Production entrance.
- X - 7 North side of N.C. Highway 73 where railroad tracks and the highway become parallel.
- X - 8 Dam at Waste Water Collection Basin. Access through O.C. Gate #5 (South River Gate)*.
- A - 2-1 Southwest end of Belle Isle Drive off SR 2149.
- A - 3-1 West end of SR 2151.
- A - 3-2 Intersection of SR 2151 and SR 2149.
- A - 3-3 South end of SR 2148 (Nance Road).
- A - 5-1 Intersection of SR 2189 (Bethel Church Road) and Staghorn Drive.
- A - 5-2 Knox Grill at intersection of N.C. Highway 73 and SR 2159 (Knox Road).

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

NOTE: Sample locations denoted with "X" indicate locations within the Exclusion Area Boundary.

ENCLOSURE 5.2 (cont.)

- B - 1-1 One mile from plant on Lake Norman.
- B - 1-2 One mile from plant on Lake Norman.
- B - 1-3 One mile from plant on Lake Norman.
- B - 1-4 One mile from plant on Lake Norman.
- B - 1-5 One mile from plant on Lake Norman.
- B - 1-6 Emergency boathouse at boat dock.
- C - 1-1 Approximately one mile on Hubbard Road off Highway 73.
- C - 1-2 End of Hubbard Road.
- C - 1-3 Approximately one mile west on SR 2133.
- C - 1-4 Catawba River, access through O.C. Gate 7 (Lower Dam Access)*.
- C - 1-5 River bank at north tip of island, access thru O.C. Gate 7 (Lower Dam Access)*.
- C - 2-1 Intersection of SR 2138 (Beatties Ford Road) and SR 2133 (Stevens Road).
- C - 2-2 West end of SR 2132.
- D - 2-1 Intersection of SR 2128 (Beatties Ford Road) and SR 2136 (Gilead Road).
- D - 3-1 East end of SR 2148 (Babe Stillwell Farm Road).
- D - 3-2 Intersection of SR 2136 (Gilead Road) and SR 2131 (Bud Henderson Road).
- D - 3-3 Intersection of SR 2128 (Beatties Ford Road) and SR 2129 (Jim Kidd Road).
- D - 3-4 Intersection of SR 2074 (Meck Road) and SR 2127 (Allison Ferry Road).
- D - 3-5 West end of SR 2127 (Allison Ferry Road).
- D - 5-1 Intersection of SR 2136 (Gilead Road) and SR 2139 (Remson Road).
- D - 5-2 Intersection of SR 2117 (Hambright Road) and SR 2120 (McCoy Road).
- D - 5-3 Intersection of SR 2074 (Beatties Ford Road) and SR 2117 (Hambright Road).

ENCLOSURE 5.2 (cont'd)

- D - 5-4 Intersection of SR 2074 (Beatties Ford Road) and SR 2125.
- E - 6-1 Intersection of SR 2004 (Mt. Holly-Huntersville Road) and SR 2075 (Riverview Road).
- E - 7-1 Intersection of SR 2004 (Mt. Holly-Huntersville Road) and SR 2001 (Pump Station Road).
- E - 8-1 Intersection of SR 2025 (Miranda Road) and SR 2043.
- E - 8-2 Bridge over Long Creek on N.C. Highway 16 between SR 1664 and SR 2005.
- E - 10-1 Intersection of SR 2619 (Peachtree Road) and SR 2027 (Cora Ave.).
- E - 10-2 Intersection of SR 1771 (Cathey Road) and SR 1769 (Tom Saddler Road).
- F - 5-1 Intersection of U.S. Highway 21 and SR 2004 (Mt. Holly-Huntersville Road).
- F - 7-1 Intersection of SR 2004 (Mt. Holly-Huntersville Road) and SR 2116 (Alexanderana Road).
- F - 8-1 Intersection of Interstate 77 and SR 2110 (Reames Road).
- F - 9-1 Intersection of SR 2442 (Asbury Church Road) and SR 2426 (Huntersville-Concord Road).
- F - 9-2 Intersection of SR 2442 (Asbury Church Road) and SR 2445.
- F - 10-1 Intersection of SR 2459 (Eastfield Road) and SR 2475 (Prosperity Church Road).
- F - 10-2 Intersection of N.C. Highway 115 and SR 2631 (Beechwood Mobile Home Park Road).
- G - 5-1 Intersection of U.S. Highway 21 and SR 2145 (Sam Furr Road).
- G - 6-1 South end of SR 2438 (Hagers Road) - right fork.
- G - 6-2 Intersection of N.C. Highway 115 and SR 2416 (Bailey Road).
- G - 8-1 Bridge over Rocky River on N.C. Highway 73 between SR 2420 and SR 2422.
- G - 8-2 Intersection of SR 2427 (McCord Road) and SR 2439 (Ramah Church Road).
- G - 10-1 Intersection of SR 2418 (Shearer Road) and SR 2419.

ENCLOSURE 5.2 (cont.)

- H - 5-1 Intersection of U.S. Highway 21 and SR 2147.
- H - 7-1 Intersection of Interstate Highway 77 and SR 2158 (Goodrum Drive).
- I - 5-1 South end of SR 2160.
- I - 6-1 Intersection of SR 1100 (Mayhew Road) and SR 2065.
- I - 7-1 Intersection of SR 1100 (Mayhew Road) and SR 1111 (Tom White Road).
- I - 7-2 South end of SR 1113 (Isle of Pines Road).
- I - 8-1 South end of SR 1459.
- I - 9-1 Intersection of SR 1100 (Mayhew Road) and SR 1177 (Chuckwood Road).
- I - 10-1 Intersection of SR 1115 and SR 1455.
- J - 6-1 West end of SR 1102 (Williamson Chapel Road) in All Seasons Campground.
- J - 9-1 Intersection of N.C. Highway 115 and SR 1137 (Midway Lake Road).
- J - 10-1 West end of SR 1194.
- J - 10-2 Intersection of SR 1132 (Midway Lake Road) and SR 1136 (J.P. White Road).
- L - 9-1 Barclay's Mini-Market and Texaco on SR 1373.
- L - 9-2 South end of SR 1841 (Webbs Chapel Road).
- M - 3-1 Highway 16 at Turbyfill Nursery.
- M - 4-1 Beatties Ford Access Area on SR 1439.
- M - 4-2 Picnic Area south of railroad crossing on N.C. Highway 16 between SR 1394 and SR 1397.
- M - 5-1 East end of SR 1495 in Westport Community.
- M - 5-2 Railroad Crossing east of Forney Creek on SR 1380 (Triangle Road) between SR 1386 and SR 1387.
- M - 5-3 East Lincoln High School at intersection of N.C. Highway 73 and SR 1386.
- M - 5-4 Bridge over Killian's Creek on SR 1545 (Old Plank Road) between N.C. Highway 16 and SR 1398.

ENCLOSURE 5.2 (cont.)

- M - 6-1 Bridge over Anderson Creek on SR 1385 (Anderson Branch Road) between N.C. Highway 73 and SR 1383.
- N - 6-1 Intersection of SR 1379 and SR 1376.
- N - 6-2 Intersection of SR 1380 (Triangle Road) and SR 1381.
- N - 8-1 Bridge over Anderson Creek on SR 1360 (Tucker's Campground Road) between SR 1382 and SR 1384.
- N - 8-2 Bridge over Killian's Creek on SR 1373 (Denver Road) between N.C. Highway 16 and SR 1360.
- N - 8-3 Intersection of SR 1375 and SR 1635.
- N - 10-1 Intersection of SR 1360 (Tucker's Campgro. J Road) and SR 1349.
- O - 10-1 Intersection of SR 1362 (Mechpelah Road) and N.C. Highway 73.
- P - 6-1 Intersection of SR 1545 (Old Plank Road) and SR 1412 (Mariposa Road).
- P - 8-1 Bridge over Leeper's Creek (North Branch) on SR 1404 between SR 1535 and SR 1403.
- P - 10-1 Intersection of SR 1360 (Tucker's Campground Road) and SR 1361.
- Q - 1-1 Cowans Ford Dam - east end, access through O.C. Gate #10*.
- Q - 1-2 SR 1395 at Lake Norman Overlook.
- Q - 1-3 Intersection of Highway 73 and SR 1528.
- Q - 2-1 Bill's Marina on SR 1395.
- Q - 2-2 Intersection of N.C. Highway 73 and SR 1393.
- Q - 2-3 Intersection of N.C. Highway 73 and SR 1543.
- Q - 2-4 Railroad crossing on SR 1386 (Killian Road) between SR 1397 and SR 1909.
- Q - 3-1 East end of SR 1441.
- Q - 3-2 Intersection of SR 1393 and SR 1568 (Nixon Heights entrance).
- Q - 3-3 Bridge over Johnsons Creek on SR 1397 (Sifford Road) between SR 1396 and SR 1652.
- R - 8-1 Intersection of SR 1902 (Mariposa Road) and SR 1906.

ENCLOSURE 5.2 (cont.)

- R - 9-1 Intersection of N.C. Highway 27 and SR 1903 (Lawrence Road).
- S - 8-1 Intersection of SR 1935 (Stanley Road) and SR 1923 (Old N.C. 27).
- U - 10-1 Intersection of N.C. Highway 273 and N.C. Highway 27.
- V - 3-1 Intersection of SR 1968 and SR 1909 approximately 0.5 mile past Gaston County line.
- V - 5-1 Intersection of N.C. Highway 16 and SR 1911.
- V - 5-2 Lucia Fire Department in Lucia on N.C. Highway 16.
- V - 5-3 Water tower across from Riverbend Steam Station on SR 1912.
- V - 5-4 Intersection of SR 1912 (Horseshoe Bend Beach Road) and SR 1913.
- V - 7-1 Bridge over Leepers Creek on SR 1820 (Alexis-Lucia Road) between SR 1907 and SR 1902.
- V - 7-2 Bridge over Dutchman's Creek on SR 1905 (Upper Stanley Road) between SR 1820 and SR 1919.
- V - 8-1 Intersection of SR 1919 (Stanley Road) and SR 1918 (Sandy Ford Road).
- V - 8-2 Pinewood Elementary School on N.C. Highway 273 south of entrance to Mt. Island Dam.

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 5.4

MAP of 10 mile Radius with Predetermined Survey Points.

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ENCLOSURE 5.5

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

Victoreen 497 or Eberline E-520, and a 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 Station Health Physics Manual, Section 18.2, (Environmental Monitoring for Emergency Conditions).
Map of Ten Mile Zone with Predetermined Sampling Locations

ENCLOSURE 5.6

Duke Power Company

McGuire Nuclear Station

AIR SAMPLING DATA SHEET AND COUNTING RESULTS

SAMPLING DATA

Collected by _____ Date _____
 Time _____ Shift _____
 Location: Building _____ Room _____ or Area _____
 Operation: _____ Status Unit 1 _____ 2 _____
 Count For: Gross Beta-Gamma _____ Alpha _____
 Analyze for Special Isotopes: _____

SAMPLE SAMPLING TIME FLOW RATE SAMPLE VOLUME
 No. START STOP TOTAL cfm cu ft TOTAL x 0.02832 = m³

COUNTING DATA

Counted by _____ Date _____
 Counter Type and No. _____
 Counter Background and Efficiency:
 Beta Gamma _____ cpm Effic. Factor _____
 Alpha _____ cpm Effic. Factor _____

TIME OF COUNT min. TOTAL COUNT cc/m=cpm-bgi CORRECTED Counts/m dpm/m³ 2.22 x 10¹² uCi/ml

Additional Information: _____
 Action taken or Required: _____

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 (cont.)

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-N 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 Center) 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. D. M. Staggs*		
2. L. W. Johnson*		
3. L. M. Whisonant*		
4. B. A. Turpin*		

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



DUKE POWER COMPANY
Crisis Management Plan

Implementing Procedure 5.3.17

Operator Aid Computer Data Available In An Emergency
(Via Crisis Management Data Transmittal System)

Rev. 0
August 13, 1982

OAC DATA AVAILABLE IN AN EMERGENCY1.0 Purpose

To ensure that holders of the Crisis Management Plan Implementation Procedures Manual have an up to date listing of data available in an emergency as well as a better description of which instrument reading is provided on the Plant Data and Status Sheet.

2.0 References

Crisis Management Plan Section I
Crisis Management Data Retrieval System Documentation

3.0 Limits and Precautions

None.

4.0 Procedure

4.1 The Enclosures 5.2, 5.3, 5.4, 5.5, and 5.6 list computer point ID's, a description of what instrument or variable is provided by that ID, the units that variable is in, and the range of that reading for Oconee 1, Oconee 2, Oconee 3, McGuire, and Catawba respectively. Enclosure 5.1 is a correlation, relating a letter to type of variable.

4.2 In an emergency, requests for data in addition to that provided on the plant status sheet are to be referred to the Data Coordinator in the Crisis Management Center.

5.0 Enclosures

- 5.1 OAC Point ID Correlation
- 5.2 Oconee Unit 1 Available OAC Point ID's
- 5.3 Oconee Unit 2 Available OAC Point ID's
- 5.4 Oconee Unit 3 Available OAC Point ID's
- 5.5 McGuire Units 1 & 2 Available OAC Point ID's
- 5.6 Catawba Units 1 & 2 Available OAC Point ID's

Enclosure 5.1

AVAILABLE OAC POINT ID's

- A Primary Coolant Systems
- B Secondary Coolant Systems
- C Auxiliary Systems
- D Safety Injection Systems
- E Containment Systems
- F Radiation Monitoring Systems
- G Environmental Systems

Enclosure 5.2

AVAILABLE OAC POINT ID's

Oconee Unit 1

	<u>Point I.D.</u>	<u>Description</u>	<u>Units</u>	<u>Range</u>
<u>A</u>				
1.	<u>A1632</u>	RC Hot Leg A WR Temp.	°F	50-650
	<u>A1634</u>	RC Hot Leg A Temp. 1	°F	520-620
	A1635	RC Hot Leg A Temp. 2	°F	520-620
2.	<u>A1633</u>	RC Hot Leg B WR Temp	°F	50-650
	<u>A1492</u>	RC Hot Leg B Temp. 1	°F	520-620
	A1493	RC Hot Leg B Temp. 2	°F	520-620
3.	<u>A1636</u>	RC Cold Leg A1 NR Temp.	°F	520-620
	<u>A1639</u>	RC Cold Leg A1 WR Temp.	°F	50-650
4.	<u>A1636</u>	RC Cold Leg A2 NR Temp.	°F	520-620
	<u>A1637</u>	RC Cold Leg A2 WR Temp.	°F	50-650
5.	<u>A1046</u>	RC Cold Leg B1 NR Temp.	°F	520-620
	<u>A1047</u>	RC Cold Leg B1 WR Temp.	°F	50-650
6.	<u>A1494</u>	RC Cold Leg B2 NR Temp.	°F	520-620
	<u>A1495</u>	RC Cold Leg B2 WR Temp.	°F	50-650
7.	<u>A1416</u>	RC Loop A WR Press. 1	PSIG	0-2500
	<u>A1418</u>	RC Loop A WR Press. 2	PSIG	0-2500
	<u>A1417</u>	RC Loop B WR Press.	PSIG	0-2500
8.	<u>A1939</u>	RC PRZR LVL 1 Corr.	In. H ₂ O	
	<u>A1940</u>	RC PRZR LVL 2 Corr.	In. H ₂ O	
	A1941	RC PRZR LVL 3 Corr.	In. H ₂ O	
	A1717	RC PRZR LVL 1 Uncorrected	In. H ₂ O	0-400
	A1718	RC PRZR LVL 2 Uncorrected	In. H ₂ O	0-400
	A1719	RC PRZR LVL 3 Uncorrected	In. H ₂ O	0-400
9.	<u>A1920</u>	CA Boron Conc. PPM	PPM	
10.	<u>A1536</u>	NI 1 SR Flux	CPS	0.1-E6
	<u>A1537</u>	NI 2 SR Flux	CPS	0.1-E6
11.	<u>A1540</u>	NI 3 IR Flux	E ⁻⁶ Amps	E ⁻¹¹ -E ⁻³
	<u>A1541</u>	NI 4 IR Flux	E ⁻⁶ Amps	E ⁻¹¹ -E ⁻³
12.	<u>A1544</u>	NI 5 PR Flux	%	0-125
	<u>A1545</u>	NI 6 PR Flux	%	0-125
	A1546	NI 7 PR Flux	%	0-125
	A1547	NI 8 PR Flux	%	0-125
13.	<u>D2306</u>	RC Pump A1 ON (OFF)		
14.	<u>D2307</u>	RC Pump A2 ON (OFF)		
15.	<u>D2308</u>	RC Pump B1 ON (OFF)		
16.	<u>D2309</u>	RC Pump B2 ON (OFF)		
<u>B</u>				
1.	<u>A1026</u>	FDW SG A Full LVL	In. H ₂ O	0-650
	<u>A1213</u>	FDW SG A TR A LVL	In. H ₂ O	0-388
	A1214	FDW SG A TR B LVL	In. H ₂ O	0-388
2.	<u>A1031</u>	FDW SG B Full LVL	In. H ₂ O	0-650

Underline indicates points used on data sheet.

Enclosure 5.2 (cont'd)
 AVAILABLE OAC POINT ID's
Oconee Unit 1

	<u>Point I.D.</u>	<u>Description</u>	<u>Units</u>	<u>Range</u>
<u>B (cont'd)</u>				
	A1215	FDW SG B TR A LVL	In. H ₂ O	0-388
	A1216	FDW SG B TR B LVL	In. H ₂ O	0-388
3.	<u>A1470</u>	MS Stm. Gen. A Press. 1	PSIG	0-1200
	A1471	MS Stm. Gen. A Press. 2	PSIG	0-1200
4.	<u>A1466</u>	MS Stm. Gen. B Press. 1	PSIG	0-1200
	A1467	MS Stm. Gen. B Press. 2	PSIG	0-1200
5.	<u>A1563</u>	FDW Flow A Comp. & Sel.	LBS/Hr.	0-6E6
	A1564	FDW Flow B Comp. & Sel.	LBS/Hr.	0-6E6
6.	<u>A1644</u>	EMR FDW Flow 1 SG A	GPM	0-1200
7.	<u>A1758</u>	EMR FDW Flow 1 SG B	GPM	0-1200
8.	<u>A0158</u>	C UST A LVL	FT-H ₂ O	0-12
	A0014	C UST B LVL	FT-H ₂ O	0-12
<u>C</u>				
1.	<u>A1044</u>	HP Letdn. Flow	GPM	0-160
2.	<u>A0944</u>	DW UST MKUP Flow	LBS/HR	0-225000
<u>D</u>				
1.	<u>A1238</u>	HP Loop A Inj. Flow	GPM	0-6000
2.	<u>A1239</u>	HP Loop B Inj. Flow	GPM	0-6000
3.	<u>A1310</u>	LP Loop A Inj. Flow	GPM	0-1200
4.	<u>A1311</u>	LP Loop B Inj. Flow	GPM	0-1200
5.	<u>D2214</u>	LP Pump A ON (OFF)		
6.	<u>D2215</u>	LP Pump B ON (OFF)		
7.	<u>D2216</u>	LP Pump C ON (OFF)		
8.	<u>D2125</u>	HP Pump A ON (OFF)		
9.	<u>D2127</u>	HP Pump B ON (OFF)		
10.	<u>D2129</u>	HP Pump C ON (OFF)		
<u>E</u>				
1.	<u>A1011</u>	Reactor Bldg. Press. CH. A	PSIG	-5-175
	A1315	Reactor Bldg. Press. CH. B	PSIG	-5-175
2.	<u>A0043</u>	RBV Dome Temp.	°F	0-390
	A0005	RBV RB LWR Temp.	°F	0-390
3.	<u>A1565</u>	RB Sump Level CH. A	Ft.	0-15
	A1033	RB Sump LVL CH. B	Ft.	0-15
4.	<u>A1465</u>	CA H2 Conc.	%	0-5
5.	<u>A0049</u>	LWD RB NCR Sump LVL	In. H ₂ O	0-30

Underline indicates points used on data sheet.

Enclosure 5.2 (cont'd)

AVAILABLE OAC POINT ID's

Oconee Unit 1

	<u>Point I.D.</u>	<u>Description</u>	<u>Units</u>	<u>Range</u>
<u>F</u>				
1.	<u>A1670</u>	RM 36 RC Letdn.	CNT/MIN	10-106
2.	<u>A1663</u>	RM 16 MS HDR A	MR/HR	.01-E7
3.	<u>A1676</u>	RM 17 MS HDR B	MR/HR	.01-E7
4.	<u>A1674</u>	RM 40 CSAE EXH	CNT/MIN	10-106
5.	<u>A1264</u>	RM HR CONT AREA MON TR A	R/HR	1-1E8
	<u>A1265</u>	RM HR CONT AREA MON TR B	R/HR	1-1E8
6.	<u>A1680</u>	RM 46 Unit Vent Gas HR	CNT/MIN	10-106
<u>G</u>				
1.	A0012	MC Wind Speed	MPH	0-30
2.			(Not Available)	
3.	A0013	MC Wind Direction	Deg L	0-+/-180
4.			(Not Available)	
5.			(Not Available)	
6.			(Not Available)	
7.			(Not Available)	
8.			(Not Available)	

Underline indicates points used on data sheet.

Enclosure 5.3

AVAILABLE GAC POINT ID's

Oconee Unit 2

	<u>Point I.D.</u>	<u>Description</u>	<u>Units</u>	<u>Range</u>
<u>A</u>				
1.	<u>A1632</u>	RC Hot Leg A WR Temp.	°F	50-650
	A1634	RC Hot Leg A Temp. 1	°F	520-620
	A1635	RC Hot Leg A Temp. 2	°F	520-620
2.	<u>A1633</u>	RC Hot Leg B WR Temp.	°F	50-650
	<u>A1492</u>	RC Hot Leg B Temp. 1	°F	520-620
	A1493	RC Hot Leg B Temp. 2	°F	520-620
3.	<u>A1638</u>	RC Cold Leg A1 NR Temp.	°F	520-620
	<u>A1639</u>	Cold Leg A1 WR Temp.	°F	60-650
4.	<u>A1636</u>	RC Cold Leg A2 NR Temp.	°F	520-620
	<u>A1637</u>	RC Cold Leg A2 WR Temp.	°F	60-650
5.	<u>A1046</u>	RC Cold B1 NR Temp.	°F	520-620
	<u>A1047</u>	RC Cold Leg B1 WR Temp.	°F	50-650
6.	<u>A1494</u>	RC Cold Leg B2 NR Temp.	°F	520-620
	<u>A1495</u>	RC Cold Leg B2 WR Temp.	°F	50-650
7.	<u>A1416</u>	RC Loop A WR Press. 1	PSIG	0-2500
	<u>A1418</u>	RC Loop A WR Press. 2	PSIG	0-2500
	<u>A1417</u>	RC Loop B WR Press.	PSIG	0-2500
8.	<u>A1939</u>	RC PRZR LVL 1 Corr.	In. H ₂ O	
	<u>A1940</u>	RC PRZR LVL 2 Corr.	In. H ₂ O	
	<u>A1941</u>	RC PRZR LVL 3 Corr.	In. H ₂ O	
	<u>A1717</u>	RC PRZR LVL 1 Uncorrected	In. H ₂ O	0-400
	<u>A1718</u>	RC PRZR LVL 2 Uncorrected	In. H ₂ O	0-400
	<u>A1719</u>	RC PRZR LVL 3 Uncorrected	In. H ₂ O	0-400
9.	<u>A1009</u>	CA Boron Conc. PPM	PPM	0-2050
10.	<u>A1536</u>	NI 1 SR Flux	CPS	0.1-E6
	<u>A1537</u>	NI 2 SR Flux	CPS	0.1-E6
11.	<u>A1540</u>	NI 3 IR Flux	E ⁻⁶ Amps	E ⁻¹¹ -E ⁻³
	<u>A1541</u>	NI 4 IR Flux	E ⁻⁶ Amps	E ⁻¹¹ -E ⁻³
12.	<u>A1544</u>	NI 5 PR Flux	%	0-125
	<u>A1545</u>	NI 6 PR Flux	%	0-125
	<u>A1546</u>	NI 7 PR Flux	%	0-125
	<u>A1547</u>	NI 8 PR Flux	%	0-125
13.	<u>D2306</u>	RC Pump A1 ON (OFF)		
14.	<u>D2307</u>	RC Pump A2 ON (OFF)		
15.	<u>D2308</u>	RC Pump B1 ON (OFF)		
16.	<u>D2309</u>	RC Pump B2 ON (OFF)		
<u>B</u>				
1.	<u>A1026</u>	FDW SG A Full LVL	In. H ₂ O	0-648
	<u>A1213</u>	FDW SG A TR A LVL	In. H ₂ O	0-388
	<u>A1214</u>	FDW SG A TR A LVL	In. H ₂ O	0-388

Underline indicates points used on data sheet.

Enclosure 5.3 (cont'd)

AVAILABLE OAC POINT ID's

Oconee Unit 2

	<u>Point I.D.</u>	<u>Description</u>	<u>Units</u>	<u>Range</u>
<u>B (cont'd)</u>				
2.	<u>A1031</u>	FDW SG B Full LVL	In. H ₂ O	0-648
	<u>A1215</u>	FDW SG B TR A LVL	In. H ₂ O	0-388
	<u>A1216</u>	FDW SG B TR B LVL	In. H ₂ O	0-398
3.	<u>A1470</u>	MS Stm. Gen. A Press. 1	PSIG	0-1200
	<u>A1471</u>	MS Stm. Gen. A Press. 2	PSIG	0-1200
4.	<u>A1466</u>	MS Stm. Gen. B Press. 1	PSIG	0-1200
	<u>A1467</u>	MS Stm. Gen. B Press. 2	PSIG	0-1200
5.	<u>A1563</u>	FDW Flow A Comp. & Sel.	LBS/Hr.	0-6E6
	<u>A1564</u>	FDW Flow B Comp. & Sel.	LBS/Hr.	0-6E6
6.	<u>A0012</u>	EMR FDW Flow 1 SG A	GPM	0-1200
7.	<u>A0013</u>	EMR FDW Flow 1 SG B	GPM	0-1200
8.	<u>A0014</u>	C UST A LVL	FT-H ₂ O	0-12
	<u>A0158</u>	C UST B LVL	FT-H ₂ O	0-12
<u>C</u>				
1.	<u>A1044</u>	HP Letdn. Flow	GPM	0-160
2.	<u>A0944</u>	DW UST MKUP Flow	LBS/HR	0-225000
<u>D</u>				
1.	<u>A1238</u>	HP Loop A Inj. Flow	GPM	0-1200
2.	<u>A1239</u>	HP Loop B Inj. Flow	GPM	0-1200
3.	<u>A1310</u>	LP Loop A Inj. Flow	GPM	0-1300
4.	<u>A1311</u>	LP Loop B Inj. Flow	GPM	0-1300
5.	<u>D2214</u>	LP Pump A ON (OFF)		
6.	<u>D2215</u>	LP Pump B ON (OFF)		
7.	<u>D2216</u>	LP Pump C ON (OFF)		
8.	<u>D2125</u>	HP Pump A ON (OFF)		
9.	<u>D2127</u>	HP Pump B ON (OFF)		
10.	<u>D2129</u>	HP Pump C ON (OFF)		
<u>E</u>				
1.	<u>A1011</u>	Reactor Bldg. Press. CH. A	PSIG	-5-175
	<u>A1315</u>	Reactor Bldg. Press. CH. B	PSIG	-5-175
2.	<u>A0043</u>	RBV Dome Temp.	°F	0-390
	<u>A0005</u>	RBV RB LWR Temp.	°F	0-390
3.	<u>A0792</u>	RB Sump Level CH. A	Ft.	0-15
	<u>A0793</u>	RB Sump LVL CH. B	Ft.	0-15
4.		CA H2 Conc.	(Not Available)	
5.	<u>A0049</u>	LWD RB NOR Sump LVL	In. H ₂ O	0-30

Underline indicates points used on data sheet.

Enclosure 5.3 (cont'd)
 AVAILABLE OAC POINT ID's
Oconee Unit 2

	<u>Point I.D.</u>	<u>Description</u>	<u>Units</u>	<u>Range</u>
<u>F</u>				
1.	<u>A1670</u>	RM 36 RC Letdn.	CNT/MIN	10-106
2.	<u>A1663</u>	RM 16 MS HDR A	MR/HR	.01-E7
3.	<u>A1676</u>	RM 17 MS HDR B	MR/HR	.01-E7
4.	<u>A1674</u>	RM 40 CSAE EXH	CNT/MIN	10-106
5.	<u>A1264</u>	RM HR CONT AREA MON TR A	R/HR	1-1E8
	<u>A1265</u>	RM HR CONT AREA MON TR B	R/HR	1-1E8
6.	<u>A1680</u>	RM 46 Unit Vent Gas HR	CNT/MIN	10-106
<u>G</u>				
1.		MC Wind Speed		
2.				(Not Available)
3.		MC Wind Direction		
4.				(Not Available)
5.	A0953	MC Delta OS Air Temp. Top	°F	-30-(+30)
6.				(Not Available)
7.				(Not Available)
8.				(Not Available)
9.				(Not Available)

Underline indicates points used on data sheet.

Enclosure 5.4

AVAILABLE OAC POINT ID's

Oconee Unit 3

	<u>Point I.D.</u>	<u>Description</u>	<u>Unit 1</u>	<u>Range</u>
<u>A</u>				
1.	<u>A1632</u>	RC Hot Leg A WR Temp.	°F	50-650
	A1634	RC Hot Leg A Temp. 1	°F	520-620
	A1635	RC Hot Leg A Temp. 2	°F	520-620
2.	<u>A1633</u>	RC Hot Leg B WR Temp.	°F	50-650
	A1492	RC Hot Leg B Temp. 1	°F	520-620
	A1493	RC Hot Leg B Temp. 2	°F	520-620
3.	<u>A1638</u>	RC Cold Leg A1 NR Temp.	°F	520-620
	A1639	RC Cold Leg A1 WR Temp.	°F	50-650
4.	<u>A1636</u>	RC Cold Leg A2 NR Temp.	°F	520-620
	A1637	RC Cold Leg A2 WR Temp.	°F	50-650
5.	<u>A1046</u>	RC Cold Leg B1 NR Temp.	°F	520-620
	A1047	RC Cold Leg B1 WR Temp.	°F	50-650
6.	<u>A1494</u>	RC Cold Leg B2 NR Temp.	°F	520-620
	A1495	RC Cold Leg B2 WR Temp.	°F	50-650
7.	<u>A1416</u>	RC Loop A WR Press. 1	PSIG	0-2500
	A1418	RC Loop A WR Press. 2	PSIG	0-2500
	A1417	RC Loop B WR Press.	PSIG	0-2500
8.	<u>A1939</u>	RC PRZR LVL 1 Corr.	In. H ₂ O	
	A1940	RC PRZR LVL 2 Corr.	In. H ₂ O	
	A1941	RC PRZR LVL 3 Corr.	In. H ₂ O	
	A1717	RC PRZR LVL 1 Uncorrected	In. H ₂ O	0-400
	A1718	RC PRZR LVL 2 Uncorrected	In. H ₂ O	0-400
	A1719	RC PRZR LVL 3 Uncorrected	In. H ₂ O	0-400
9.	<u>A1009</u>	CA Boron Conc. PPM	PPM	0-2050
10.	<u>A1536</u>	NI 1 SR Flux	CPS	0.1-E6
	A1537	NI 2 SR Flux	CPS	0.1-E6
11.	<u>A1540</u>	NI 3 IR Flux	E ⁻⁶ Amps	E ⁻¹¹ -E ⁻³
	A1541	NI 4 IR Flux	E ⁻⁶ Amps	E ⁻¹¹ -E ⁻³
12.	<u>A1544</u>	NI 5 PR Flux	%	0-125
	A1545	NI 6 PR Flux	%	0-125
	A1546	NI 7 PR Flux	%	0-125
	A1547	NI 8 PR Flux	%	0-125
13.	<u>D2306</u>	RC Pump A1 ON (OFF)		
14.	<u>D2307</u>	RC Pump A2 ON (OFF)		
15.	<u>D2308</u>	RC Pump B1 ON (OFF)		
16.	<u>D2309</u>	RC Pump B2 ON (OFF)		
<u>B</u>				
1.	<u>A1026</u>	FDW SG A Full LVL	In. H ₂ O	0-650
	A1213	FDW SG A TR A LVL	In. H ₂ O	0-388
	A1214	FDW SG A TR A LVL	In. H ₂ O	0-388

Underline indicates points used on data sheet.

Enclosure 5.4 (cont'd)
 AVAILABLE OAC POINT ID's
Oconee Unit 3

<u>Point I.D.</u>	<u>Description</u>	<u>Units</u>	<u>Range</u>
<u>B (cont'd)</u>			
2.	<u>A1031</u>	FDW SG B Full LVL	In. H ₂ O 0-650
	<u>A1215</u>	FDW SG B TR A LVL	In. H ₂ O 0-388
	<u>A1216</u>	FDW SG B TR B LVL	In. H ₂ O 0-388
3.	<u>A1470</u>	MS Stm. Gen. A Press. 1	PSIG 0-1200
	<u>A1471</u>	MS Stm. Gen. A Press. 2	PSIG 0-1200
4.	<u>A1466</u>	MS Stm. Gen. B Press. 1	PSIG 0-1200
	<u>A1467</u>	MS Stm. Gen. B Press. 2	PSIG 0-1200
5.	<u>A1563</u>	FDW Flow A Comp. & Sel.	LBS/Hr. 0-6E6
	<u>A1564</u>	FDW Flow B Comp. & Sel.	LBS/Hr. 0-6E6
6.	<u>A0012</u>	EMR FDW Flow 1 SG A	GPM 0-1200
7.	<u>A0013</u>	EMR FDW Flow 1 SG B	GPM 0-1200
8.	<u>A0158</u>	C UST A LVL	FT-H ₂ O 0-12
	<u>A0014</u>	C UST B LVL	FT-H ₂ O 0-12
<u>C</u>			
1.	<u>A1044</u>	HP Letdn. Flow	GPM 0-160
2.	<u>A0944</u>	DW UST MKUP Flow	LBS/HR 0-225000
<u>D</u>			
1.	<u>A1238</u>	HP Loop A Inj. Flow	GPM 0-1200
2.	<u>A1239</u>	HP Loop B Inj. Flow	GPM 0-1200
3.	<u>A1310</u>	LP Loop A Inj. Flow	GPM 0-1300
4.	<u>A1311</u>	LP Loop B Inj. Flow	GPM 0-1300
5.	<u>D2214</u>	LP Pump A ON (OFF)	
6.	<u>D2215</u>	LP Pump B ON (OFF)	
7.	<u>D2216</u>	LP Pump C ON (OFF)	
8.	<u>D2125</u>	HP Pump A ON (OFF)	
9.	<u>D2127</u>	HP Pump B ON (OFF)	
10.	<u>D2129</u>	HP Pump C ON (OFF)	
<u>E</u>			
1.	<u>A1011</u>	Reactor Bldg. Press. CH. A	PSIG -5-175
	<u>A1315</u>	Reactor Bldg. Press. CH. B	PSIG -5-175
2.	<u>A0043</u>	RBV Dome Temp.	°F 0-390
	<u>A0005</u>	RBV RB LWR Temp.	°F 0-390
3.	<u>A0792</u>	RB Sump Level CH. A	Ft. 0-15
	<u>A0793</u>	RB Sump LVL CH. B	Ft. 0-15
4.	<u>A1465</u>	CA A2 Conc.	% 0-5
5.	<u>A0049</u>	LWD RB NOR Sump LVL	In. H ₂ O 0-30

Underline indicates points used on data sheet.

Enclosure 5.4 (cont'd)

AVAILABLE OAC POINT ID's

Oconee Unit 3

	<u>Point I.D.</u>	<u>Description</u>	<u>Units</u>	<u>Range</u>
<u>F</u>				
1.	<u>A1670</u>	RM 36 RC Letdn.	CNT/MIN	10-106
2.	<u>A1663</u>	RM 16 MS HDR A	MR/HR	.01-E7
3.	<u>A1676</u>	RM 17 MS HDR B	MR/HR	.01-E7
4.	<u>A1674</u>	RM 40 CSAE EXH	CNT/MIN	10-106
5.	<u>A1264</u>	RM HR CONT AREA MON TR A	R/HR	1-1E8
	<u>A1265</u>	RM HR CONT AREA MON TR B	R/HR	1-1E8
6.	<u>A1680</u>	RM 46 Unit Vent Gas HR	CNT/MIN	10-106
<u>G</u>				
1.		MC Wind Speed	(Not Available)	
2.			(Not Available)	
3.		MC Wind Direction	(Not Available)	
4.			(Not Available)	
5.		MC Delta OS Air Temp Top	(Not Available)	
6.			(Not Available)	
7.			(Not Available)	
8.			(Not Available)	
9.			(Not Available)	

Underline indicates points used on data sheet.

Enclosure 5.5 (cont'd)
 AVAILABLE OAC POINT ID's
McGuire Units 1 & 2

	<u>Point I.D.</u>	<u>Description</u>	<u>Units</u>	<u>Range</u>
<u>E (cont'd)</u>				
	A1216	Temp. C	°F	0-200
	A1222	Temp. D	°F	0-200
3.	<u>A1041</u>	Containment Sump Level (Train A)	FT	.5-20
	<u>A0671</u>	(Train B)	FT	.5-20
4.	<u>A0848</u>	Containment H2 Concent. (Train A)	%	0-30
	<u>A0854</u>	(Train B)	%	0-30
<u>F</u>				
1.	<u>A0115</u>	NCS Monitor	CPM	10E ¹ -10E ⁷
2.	<u>A0829</u>	Cont. High Range Area I	R/HR	10E ⁰ -10E ⁸
	<u>A0835</u>	Area II	R/HR	10E ⁰ -10E ⁸
3.	<u>A0073</u>	Cont. Gas Monitor (High Range)	CPM	10E ¹ -10E ⁶
	<u>A0067</u>	(Low Range)	CPM	10E ¹ -10E ⁷
4.	<u>A1009</u>	Unit Vent Noble Gas (High High Range)	R/HR	10E ⁰ -10E ⁸
	<u>A0018</u>	(High Range)	CPM	10E ¹ -10E ⁶
	<u>A0012</u>	(Low Range)	CPM	10E ¹ -10E ⁷
5.	<u>A0049</u>	Unit Vent Iodine	CPM	10E ¹ -10E ⁷
	<u>A0019</u>	EMF 35 Unit Vent Particulate, Hi Range	CPM	10E ¹ -10E ⁶
	<u>A0127</u>	EMF 49 Liq Waste Discharge, Hi Range	CPM	10E ¹ -10E ⁶
<u>G</u>				
1.	<u>A1069</u>	Upper Wind Speed	MPH	0-30
2.	<u>A1183</u>	Lower Wind Speed	MPH	0-30
3.	<u>A1075</u>	Upper Wind Direction From	DEG	0-540
4.	<u>A1189</u>	Lower Wind Direction From	DEG	0-540
5.	<u>A0611</u>	Barometric Pressure	IN HG	25-35
6.	<u>A1200</u>	Lower to Upper Temp. Diff.	°C	-4 to 8
7.	<u>A1218</u>	Lower to Middle Temp. Diff.	°C	-4 to 8
8.		Switchyard Ambient Air Temp.	(Not Available)	

Underline indicates points used on data sheet.

Enclosure 5.5

AVAILABLE OAC POINT ID's

McGuire Units 1 & 2

	<u>Point I.D.</u>	<u>Description</u>	<u>Units</u>	<u>Range</u>
A				
1.	<u>A0965</u>	T/Hot-Loop A (Wide Range)	°F	0-700
2.	<u>A0971</u>	T/Hot-Loop B (Wide Range)	°F	0-700
3.	<u>A0977</u>	T/Hot-Loop C (Wide Range)	°F	0-700
4.	<u>A0983</u>	T/Hot-Loop D (Wide Range)	°F	0-700
5.	<u>A1061</u>	T/Cold-Loop A (Wide Range)	°F	0-700
	<u>A1064</u>	(Narrow Range)	°F	510-630
6.	<u>A1067</u>	T/Cold-Loop B (Wide Range)	°F	0-700
	<u>A1076</u>	(Narrow Range)	°F	510-630
7.	<u>A1073</u>	T/Cold-Loop C (Wide Range)	°F	0-700
	<u>A1088</u>	(Narrow Range)	°F	510-630
8.	<u>A1079</u>	T/Cold-Loop D (Wide Range)	°F	0-700
	<u>A1100</u>	(Narrow Range)	°F	510-630
9.	<u>A0826</u>	NC System Press. (Wide Range)	PSIG	0-3000
	<u>A0845</u>	(Low Range)	PSIG	0-800
	<u>A1118</u>	(Pzr. Press. I)	PSIG	1700-2500
	<u>A0962</u>	(Pzr. Press. II)	PSIG	1700-2500
	<u>A0968</u>	(Pzr. Press. III)	PSIG	1700-2500
	<u>A0974</u>	(Pzr. Press. IV)	PSIG	1700-2500
10.	<u>A1124</u>	Pzr. Water Level (Pzr. Level I)	%	0-100
	<u>A0980</u>	(Pzr. Level II)	%	0-100
	<u>A0976</u>	(Pzr. Level III)	%	0-100
11.	<u>D2803</u>	NCP/A Status: ON, OFF		
12.	<u>D2804</u>	NCP/B Status: ON, OFF		
13.	<u>D2805</u>	NCP/C Status: ON, OFF		
14.	<u>D2806</u>	NCP/D Status: ON, OFF		
15.	<u>P0120</u>	Boron Concentration	PPM	
16.	<u>A1177</u>	Neutron Flux - Source Range Level	CPS	0-1000000
	<u>A1206</u>	Channel 1		
		- Source Range Level	CPS	0-1000000
		Channel 2		
17.	<u>A0632</u>	- Intermediate Range	E ⁻³ A	10E ⁻⁸ -1E ⁰
		Level Channel 1		
	<u>A0633</u>	- Intermediate Range	E ⁻³ A	10E ⁻⁸ -1E ⁰
		Level Channel 2		
		Channel 2		
18.	<u>A1122</u>	- Power Range Lower	%	0-120
		Level Quad 1		
	<u>A1063</u>	- Power Range Lower	%	0-120
		Level Quad 2		
	<u>A1057</u>	- Power Range Lower	%	0-120
		Level Quad 3		
	<u>A1110</u>	- Power Range Lower	%	0-120
		Level Quad 4		
	<u>P1385</u>	Reactor Thermal Power	%	

Underline indicates points used on data sheet.

Enclosure 5.5 (cont'd)
 AVAILABLE OAC POINT ID's
McGuire Units 1 & 2

<u>Point I.D.</u>	<u>Description</u>	<u>Units</u>	<u>Range</u>
<u>A (cont'd)</u>			
<u>A0628</u>	- Power Range AVG Level Quad 1	%	0-120
A0627	- Power Range AVG Level Quad 2	%	0-120
A0629	- Power Range AVG Level Quad 3	%	0-120
A0626	- Power Range AVG Level Quad 4	%	0-120
A1092	- Power Range Upper Level Quad 1	%	0-120
A1086	- Power Range Upper Level Quad 2	%	0-120
A1098	- Power Range Upper Level Quad 3	%	0-120
A1080	- Power Range Upper Level Quad 4	%	0-120
<u>B</u>			
1.	<u>A1004</u> SG/A Level (Wide Range Level)	%	0-100
	A0998 (Narrow Range Level II)	%	0-100
	A0992 (Narrow Range Level III)	%	0-100
	A1059 (Narrow Range Level IV)	%	0-100
2.	<u>A1005</u> SG/B Level (Wide Range Level)	%	0-100
	A0999 (Narrow Range Level II)	%	0-100
	A0993 (Narrow Range Level III)	%	0-100
	A1065 (Narrow Range Level IV)	%	0-100
3.	<u>A0970</u> SG/C Level (Wide Range Level)	%	0-100
	A1000 (Narrow Range Level II)	%	0-100
	A0994 (Narrow Range Level III)	%	0-100
	A1071 (Narrow Range Level IV)	%	0-100
4.	<u>A0988</u> SG/D Level (Wide Range Level)	%	0-100
	A0987 (Narrow Range Level II)	%	0-100
	A0986 (Narrow Range Level III)	%	0-100
	A1077 (Narrow Range Level IV)	%	0-100
5.	<u>A1107</u> SG/A Steam Press. (Steam Press. I)	PSIG	0-1300
	A1022 (Steam Press. II)	PSIG	0-1300
	A1028 (Steam Press. IV)	PSIG	0-1300
6.	<u>A1113</u> SG/B Steam Press. (Steam Press. I)	PSIG	0-1300
	A1023 (Steam Press. II)	PSIG	0-1300
	A1029 (Steam Press. III)	PSIG	0-1300
7.	<u>A1119</u> SG/C Steam Press. (Steam Press. I)	PSIG	0-1300
	A1024 (Steam Press. II)	PSIG	0-1300
	A1030 (Steam Press. III)	PSIG	0-1300

Underline indicates points used on data sheet.

Enclosure 5.5 (cont'd)

AVAILABLE OAC POINT ID's

McGuire Units 1 & 2

<u>Point I.D.</u>	<u>Description</u>	<u>Units</u>	<u>Range</u>
<u>B (con'd)</u>			
8.	<u>A1125</u> SG/D Steam Press. (Steam Press. I)	PSIG	0-1300
	<u>A1025</u> (Steam Press. II)	PSIG	0-1300
	<u>A1031</u> (Steam Press. IV)	PSIG	0-1300
9.	<u>P1412</u> Total SG/A CF Flow (Flow I)	MPPH	0-682.93
	<u>P1413</u> (Flow II)	MPPH	0-678.67
10.	<u>P1414</u> Total SG/B CF Flow (Flow I)	MPPH	0-677.87
	<u>P1415</u> (Flow II)	MPPH	0-679.92
11.	<u>P1416</u> Total SG/C CF Flow (Flow I)	MPPH	0-683.48
	<u>P1417</u> (Flow II)	MPPH	0-683.76
12.	<u>P1418</u> Total SG/D CF Flow (Flow I)	MPPH	0-675.97
	<u>P1419</u> (Flow II)	MPPH	0-680.33
13.	<u>P1208</u> CA Flow to S/G A	MPPH	0-300
14.	<u>P1209</u> B	MPPH	0-300
15.	<u>P1210</u> C	MPPH	0-300
16.	<u>P1211</u> D	MPPH	0-300
<u>C</u>			
1.	<u>A0764</u> NV Letdown Flow (HX Outlet Flow)	GPM	0-200
2.	<u>A0758</u> NV Charging Flow	GPM	0-200
3.	<u>A0856</u> ND Return Flow	GPM	0-7000
<u>D</u>			
1.	<u>A0857</u> CCP Inj. Hdr. Flow	GPM	0-1000
2.	<u>D0970</u> CCP/A Status: ON, OFF		
3.	<u>D0620</u> CCP/B Status: ON, OFF		
4.	<u>D3574</u> NI Pump A Status: ON, OFF		
5.	<u>D3576</u> NI Pump B Status: ON, OFF		
<u>E</u>			
1.	<u>A0785</u> Containment Press. 2	PSIG	-5 to 20
	<u>A0791</u> 3	PSIG	-5 to 20
	<u>A0797</u> 4	PSIG	-5 to 20
	<u>A0590</u> Containment Narrow Range Press.	PSIG	-1 to 1
	<u>A1047</u> Containment Pressure Train A	PSIG	-5 to 60
	<u>A0665</u> Train B	PSIG	-5 to 20
2.	<u>A1228</u> Lower Cont. Ambient Air Temp. A	°F	0-200
	<u>A1234</u> Temp. B	°F	0-200
	<u>A1240</u> Temp. C	°F	0-200
	<u>A1246</u> Temp. D	°F	0-200
	<u>A1204</u> Upper Cont. Ambient Air Temp. A	°F	0-200
	<u>A1210</u> Temp. B	°F	0-200

Underline indicates points used on data sheet.

Enclosure 5.5 (cont'd)
 AVAILABLE OAC POINT ID's
McGuire Units 1 & 2

<u>Point I.D.</u>	<u>Description</u>	<u>Units</u>	<u>Range</u>	
<u>E (cont'd)</u>				
	A1216	Temp. C	°F	0-200
	A1222	Temp. D	°F	0-200
3.	<u>A1041</u>	Containment Sump Level (Train A)	FT	.5-20
	<u>A0671</u>	(Train B)	FT	.5-20
4.	<u>A0848</u>	Containment H2 Concent. (Train A)	%	0-30
	<u>A0854</u>	(Train B)	%	0-30
<u>F</u>				
1.	<u>A0115</u>	NCS Monitor	CPM	10E ¹ -10E ⁷
2.	<u>A0829</u>	Cont. High Range Area I	R/HR	10E ⁰ -10E ⁸
	<u>A0835</u>	Area II	R/HR	10E ⁰ -10E ⁸
3.	<u>A0073</u>	Cont. Gas Monitor (High Range)	CPM	10E ¹ -10E ⁶
	<u>A0067</u>	(Low Range)	CPM	10E ¹ -10E ⁷
4.	<u>A1009</u>	Unit Vent Noble Gas (High High Range)	R/HR	10E ⁰ -10E ⁸
	<u>A0018</u>	(High Range)	CPM	10E ¹ -10E ⁶
	<u>A0012</u>	(Low Range)	CPM	10E ¹ -10E ⁷
5.	<u>A0049</u>	Unit Vent Iodine	CPM	10E ¹ -10E ⁷
	<u>A0019</u>	EMF 35 Unit Vent Particulate, Hi Range	CPM	10E ¹ -10E ⁶
	<u>A0127</u>	EMF 49 Liq Waste Discharge, Hi Range	CPM	10E ¹ -10E ⁶
<u>G</u>				
1.	<u>A1069</u>	Upper Wind Speed	MPH	0-30
2.	<u>A1183</u>	Lower Wind Speed	MPH	0-30
3.	<u>A1075</u>	Upper Wind Direction From	DEG	0-540
4.	<u>A1189</u>	Lower Wind Direction From	DEG	0-540
5.	<u>A0611</u>	Barometric Pressure	IN HG	25-35
6.	<u>A1200</u>	Lower to Upper Temp. Diff.	°C	-4 to 8
7.	<u>A1218</u>	Lower to Middle Temp. Diff.	°C	-4 to 8
8.		Switchyard Ambient Air Temp.	(Not Available)	

Underline indicates points used on data sheet.

Enclosure 5.6

AVAILABLE OAC POINT ID's

Catawba Units 1 & 2

	<u>Point I.D.</u>	<u>Description</u>	<u>Units</u>	<u>Range</u>
A				
1.	<u>A0860</u>	NC Loop A Average Temp.	°F	530-630
	<u>A0668</u>	NC Loop A Wide Range Hot Leg Temp.	°F	0-700
2.	<u>A0861</u>	NC Loop B Average Temp.	°F	530-630
	<u>A0669</u>	NC Loop B Wide Range Hot Leg Temp.	°F	0-700
3.	<u>A0862</u>	NC Loop C Average Temp.	°F	530-630
	<u>A0670</u>	NC Loop C Wide Range Hot Leg Temp.	°F	0-700
4.	<u>A0863</u>	NC Loop D Average Temp.	°F	530-630
	<u>A0671</u>	NC Loop D Wide Range Hot Leg Temp.	°F	0-700
5.	<u>A0676</u>	NC Loop A Narrow Range Cold Leg Temp.	°F	510-630
	<u>A0700</u>	NC Loop A Wide Range Cold Leg Temp.	°F	0-700
6.	<u>A0682</u>	NC Loop B Narrow Range Cold Leg Temp.	°F	510-630
	<u>A0706</u>	NC Loop B Wide Range Cold Leg Temp.	°F	0-700
7.	<u>A0688</u>	NC Loop C Narrow Range Cold Leg Temp.	°F	510-630
	<u>A0712</u>	NC Loop C Wide Range Cold Leg Temp.	°F	0-700
8.	<u>A0694</u>	NC Loop D Narrow Range Cold Leg Temp.	°F	510-630
	<u>A0718</u>	NC Loop D Wide Range Cold Leg Temp.	°F	0-700
9.	<u>A0719</u>	NC System Wide Range Press.	PSIG	0-3000
	<u>A0839</u>	NC System Wide Range Press. CH. 2	PSIG	0-3000
	<u>A0933</u>	NC System Narrow Range Press.	PSIG	0-800
10.	<u>A0707</u>	PZR Level CH. 1	%	0-100
	<u>A0867</u>	PZR Level CH. 2	%	0-100
	<u>A0873</u>	PZR Level CH. 3	%	0-100
11.	<u>D2037</u>	Reactor Coolant Pump A ON, OFF		
12.	<u>D2085</u>	Reactor Coolant Pump B ON, OFF		
13.	<u>D2038</u>	Reactor Coolant Pump C ON, OFF		
14.	<u>D2086</u>	Reactor Coolant Pump D ON, OFF		
15.	<u>A1214</u>	Boron Concentration	PPM	0-5000
16.	<u>A1248</u>	Source Range Level Channel 1	CPS	0-10E ⁶
	<u>A1254</u>	Source Range Level Channel 2	CPS	0-10E ⁶
17.	<u>A0766</u>	Intermediate Range Level Channel 1	MA	10E-8-1
	<u>A0767</u>	Intermediate Range Level Channel 2	MA	10E-8-1
18.	<u>A0672</u>	Power Range Upper Level Quadrant 1	%	0-120
	<u>A0678</u>	Power Range Upper Level Quadrant 2	%	0-120
	A0684	Power Range Upper Level Quadrant 3	%	0-120
	A0690	Power Range Upper Level Quadrant 4	%	0-120
	A0696	Power Range Lower Level Quadrant 1	%	0-120
	A0702	Power Range Lower Level Quadrant 2	%	0-120
	A0708	Power Range Lower Level Quadrant 3	%	0-120
	A0714	Power Range Lower Level Quadrant 4	%	0-120
	A0758	Power Range AVG Level Quadrant 1	%	0-120
	A0759	Power Range AVG Level Quadrant 2	%	0-120
	A0760	Power Range AVG Level Quadrant 3	%	0-120
	A0761	Power Range AVG Level Quadrant 4	%	0-120

Underline indicates points used on data sheet.

Enclosure 5.6 (cont'd)

AVAILABLE OAC POINT ID's

Catawba Units 1 & 2

	<u>Point I.D.</u>	<u>Description</u>	<u>Units</u>	<u>Range</u>
B				
1.	<u>A0731</u>	S/G A Narrow Range Level CH. 4	%	0-100
	<u>A0845</u>	S/G A Narrow Range Level CH. 3	%	0-100
	<u>A0911</u>	S/G A Narrow Range Level CH. 2	%	0-100
	<u>A0531</u>	S/G A Narrow Range Level CH. 1	%	0-100
	<u>A0674</u>	S/G A Wide Range Level	%	0-100
2.	<u>A0626</u>	S/G B Narrow Range Level CH. 4	%	0-100
	<u>A0632</u>	S/G B Narrow Range Level CH. 3	%	0-100
	<u>A0537</u>	S/G B Narrow Range Level CH. 2	%	0-100
	<u>A0638</u>	S/G B Narrow Range Level CH. 1	%	0-100
	<u>A0680</u>	S/G B Wide Range Level	%	0-100
3.	<u>A0644</u>	S/G C Narrow Range Level CH. 4	%	0-100
	<u>A0627</u>	S/G C Narrow Range Level CH. 3	%	0-100
	<u>A0543</u>	S/G C Narrow Range Level CH. 2	%	0-100
	<u>A0633</u>	S/G C Narrow Range Level CH. 1	%	0-100
	<u>A0686</u>	S/G C Wide Range Level	%	0-100
4.	<u>A0639</u>	S/G D Narrow Range Level CH. 4	%	0-100
	<u>A0645</u>	S/G D Narrow Range Level CH. 3	%	0-100
	<u>A0628</u>	S/G D Narrow Range Level CH. 2	%	0-100
	<u>A0549</u>	S/G D Narrow Range Level CH. 1	%	0-100
	<u>A0692</u>	S/G D Wide Range Level	%	0-100
5.	<u>A0723</u>	S/G A Steam Press. CH. #1	PSIG	0-1300
	<u>A1274</u>	S/G A Steam Press. CH. #2	PSIG	0-1300
	<u>A1280</u>	S/G A Steam Press. CH. #4	PSIG	0-1300
6.	<u>A0729</u>	S/G B Steam Press. CH. #1	PSIG	0-1300
	<u>A1286</u>	S/G B Steam Press. CH. #2	PSIG	0-1300
	<u>A1292</u>	S/G B Steam Press. CH. #3	PSIG	0-1300
7.	<u>A0735</u>	S/G C Steam Press. CH. #1	PSIG	0-1300
	<u>A1298</u>	S/G C Steam Press. CH. #2	PSIG	0-1300
	<u>A1304</u>	S/G C Steam Press. CH. #3	PSIG	0-1300
8.	<u>A0741</u>	S/G D Steam Press. CH. #1	PSIG	0-1300
	<u>A1310</u>	S/G D Steam Press. CH. #2	PSIG	0-1300
	<u>A1316</u>	S/G D Steam Press. CH. #4	PSIG	0-1300
9.	<u>A0634</u>	S/G A Feedwater Flow CH. 1	MLB/HR	0-4.8
	<u>A0640</u>	S/G A Feedwater Flow CH. 2	MLB/HR	0-4.8
10.	<u>A0646</u>	S/G B Feedwater Flow CH. 1	MLB/HR	0-4.8
	<u>A0629</u>	S/G B Feedwater Flow CH. 2	MLB/HR	0-4.8
11.	<u>A0635</u>	S/G C Feedwater Flow CH. 1	MLB/HR	0-4.8
	<u>A0641</u>	S/G C Feedwater Flow CH. 2	MLB/HR	0-4.8
12.	<u>A0650</u>	S/G D Feedwater Flow CH. 1	MLB/HR	0-4.8
	<u>A0651</u>	S/G D Feedwater Flow CH. 2	MLB/HR	0-4.8
13.	<u>A0974</u>	CA Flow To S/G A	GPM	0-500
14.	<u>A0975</u>	CA Flow To S/G B	GPM	0-500
15.	<u>A0976</u>	CA Flow To S/G C	GPM	0-500
16.	<u>A0977</u>	CA Flow To S/G D	GPM	0-500

Underline indicates points used on data sheet.

Enclosure 5.6 (cont'd)

AVAILABLE OAC POINT ID's

Catawba Units 1 & 2

	<u>Point I.D.</u>	<u>Description</u>	<u>Units</u>	<u>Range</u>
<u>C</u>				
1.	<u>A0452</u>	NV Letdown Flow	GPM	0-200
2.	<u>A0820</u>	Charging Line Flow Control	GPM	0-200
3.	<u>A0902</u>	ND HX A Return Flow	GPM	0-5000
	<u>A0908</u>	ND HX B Return Flow	GPM	0-5000
<u>D</u>				
1.	<u>A0447</u>	Boron Injection Flow	GPM	0-1000
2.	<u>D2450</u>	Centrifugal Charging Pump A ON, OFF		
3.	<u>D2440</u>	Centrifugal Charging Pump B ON, OFF		
4.	<u>D2456</u>	NI Pump A ON, OFF		
5.	<u>D2446</u>	NI Pump B ON, OFF		
<u>E</u>				
1.	<u>A0743</u>	Containment Press. CH. 2	PSIG	-5 to 20
	<u>A0899</u>	Containment Press. CH. 3	PSIG	-5 to 20
	<u>A0893</u>	Containment Press. CH. 4	PSIG	-5 to 20
2.	<u>A1178</u>	Upper Containment Temperature A	°F	40-200
	<u>A1232</u>	Lower Containment Temperature A1	°F	40-200
	<u>A1443</u>	Lower Containment Temperature A2	°F	32-212
	<u>A1226</u>	Upper Containment Temperature B	°F	40-200
	<u>A1184</u>	Lower Containment Temperature B1	°F	40-200
	<u>A1461</u>	Lower Containment Temperature B2	°F	32-212
	<u>A1455</u>	Upper Containment Temperature C	°F	32-212
	<u>A1238</u>	Lower Containment Temperature C1	°F	40-200
	<u>A1473</u>	Lower Containment Temperature C2	°F	32-212
	<u>A1449</u>	Upper Containment Temperature D	°F	32-212
	<u>A1244</u>	Lower Containment Temperature D1	°F	40-200
	<u>A1479</u>	Lower Containment Temperature D2	°F	32-212
3.	<u>A1418</u>	Containment Sump Level A	FT	0-20
	<u>A1424</u>	Containment Sump Level B	FT	0-20
4.		Containment H ₂ Concen.	(Not Available)	
<u>F</u>				
1.	<u>A0061</u>	EMF 48 Reactor Coolant Monitor	CPM	10E1-10E7
2.	<u>A1308</u>	EMF 53A Cont. High Range Monitor Train A	R/HR	1-1E8
	<u>A1314</u>	EMF 53B Cont. High Range Monitor Train B	R/HR	1-1E8
3.	<u>A0025</u>	EMF 39L Containment Gas Monitor	CPM	10E1-10E7
	<u>A0031</u>	EMF 39H Containment Gas Monitor	CPM	10E1-10E6

Underline indicates points used on data sheet.

Enclosure 5.6 (cont'd)

AVAILABLE OAC POINT ID's

Catawba Units 1 & 2

	<u>Point I.D.</u>	<u>Description</u>	<u>Units</u>	<u>Range</u>
<u>F (cont'd)</u>				
4.	<u>A0013</u>	EMF 36L Unit Vent Gas Monitor	CPM	10E1-10E7
	<u>A0019</u>	EMF 36H Unit Vent Gas Monitor	CPM	10E1-10E6
5.	<u>A0048</u>	EMF 37 Unit Vent Iodine Monitor	CPM	10E1-10E7
<u>G</u>				
1.	<u>A0483</u>	Upper Wind Speed	MPH	0-90
2.	<u>A0485</u>	Lower Wind Speed	MPH	0-90
3.	<u>A0484</u>	Upper Wind Direction	Deg	0-540
4.	<u>A0489</u>	Lower Wind Direction	Deg	0-540
5.	<u>A1127</u>	Barometric Pressure	In. HG	25-35
6.	<u>A0490</u>	Ambient Air D/T Elev 662 & Elev 762	°C	-4-+8
7.	<u>A0491</u>	Ambient Air D/T Elev 662 & Elev 712	°C	-4-+8
8.	<u>A0495</u>	Ambient Air Temp. At Elev 662	°C	-20-+40

Underline indicates points used on data sheet.