

DUKE POWER COMPANY

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NUCLEAR PRODUCTION

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March 18, 1985

Mr. Harold R. Denton, Director
Office of Nuclear Reactor Regulation
U. S. Nuclear Regulatory Commission
Washington, D. C. 20555

Attention: Ms. E. G. Adensam, Chief
Licensing Branch No. 4

Re: Catawba Nuclear Station
Docket Nos. 50-413 and 50-414

Dear Mr. Denton:

License Condition 23, which was included in Facility Operating License NPF-35 for Catawba Unit 1, required that Duke Power Company submit additional emergency preparedness information for NRC Staff review and approval. The attached information is provided in response to License Condition 23.

In order for Item 2 to be implemented by June 4, 1985, it is requested that this item be reviewed and approved by the NRC Staff by April 30, 1985.

In accordance with 10 CFR 170.12(c), attached is a check in the amount of \$150.00.

Very truly yours,

H.B. Tucker

Hal B. Tucker

ROS:slb

Attachment

cc: Dr. J. Nelson Grace, Regional Administrator
U. S. Nuclear Regulatory Commission
Region II
101 Marietta Street, NW, Suite 2900
Atlanta, Georgia 30323

Robert Guild, Esq.
P. O. Box 12097
Charleston, South Carolina 29412

Mr. Jesse L. Riley
Carolina Environmental Study Group
854 Henley Place
Charlotte, North Carolina 28207

NRC Resident Inspector
Catawba Nuclear Station

Palmetto Alliance
2135½ Devine Street
Columbia, South Carolina 29205

8503200453 850318
PDR ADOCK 05000413
F PDR

A045
w/check \$150.00
793460

Attachment No. 1
CATAWBA NUCLEAR STATION
Response to License Condition 23
EMERGENCY PLAN

1. The Public Information Brochure shall state that high levels of radiation are harmful to health and may be life threatening. Such statements shall be contained within that portion of the brochure that deals with actions to be taken in the event of an emergency.

Response: The Catawba Nuclear Station Emergency Planning Information Brochure 1985 Edition contains the statement that high levels of radiation are harmful to health and may be life threatening. See page 9 of the 1985 Edition. Distribution, to the public, of this edition of the brochure began in November 1984.

2. The warning signs and decals shall specify the types of emergencies they cover including nuclear.

Response: The warning signs used primarily at boat landings and recreational areas will be revised to include the wording of attachment A, pending NRC approval.

Decals will also be developed using the wording of attachment B, pending NRC approval.

The signs and decals will be procured and erected or distributed within several weeks of the NRC's approval.

3. The warning signs and decals shall notify transients as to where they can obtain local emergency information, as provided in NUREG-0654 Evaluation Criterion II.G.2.

Response: Attachments A & B lists the locations where they may be able to obtain emergency information (EBS stations).

4. The emergency plans shall reflect the kinds of locations within the plume exposure EPZ wherein the warning signs and decals and emergency response information will be placed and the procedures employed to assure that sufficient numbers are being distributed to effectively reach transients, and that the plans are implemented.

Response: Attachments A & B describe the types of locations where the public may be able to pick up copies of the Catawba Emergency Planning Brochure. Also, Attachment C is a part of our procedure for delivering a quantity of brochures to various locations and documenting their receipt. Attachment C also provides a mechanism for these locations to contact Duke Power Company when they need additional copies. The locations where brochures are available were selected by Duke personnel with help from the local government Emergency Management Agencies and various local Chamber of Commerce.

5. Comprehensive plans shall provide for early notification to Carowinds of a radiological emergency at Catawba and for evacuation of Carowinds. The plans shall describe the responsibilities of the emergency response organizations of Mecklenburg and York Counties and provide for the coordination of their efforts among themselves and with Carowinds' officials. The plans shall provide for immediate notification of patrons and staff of Carowinds at the time of the precautionary closing of the park, of the cause of the emergency. The means to implement the plans shall be made available.

Response: The procedure for Carowinds Theme Park Evacuation for Catawba Nuclear Station has been completed and is included as Attachment D. The document was developed jointly between the Charlotte-Mecklenburg Emergency Management Office and the Management at Carowinds, with some input from Duke Power Company and the York County Emergency Preparedness Agency. The procedure describes the responsibilities of the various organizations and states that Mecklenburg County will have the lead role in the effort for planning for Carowinds. The procedure also covers immediate notification of Carowinds during an alert or greater classification emergency at Catawba Nuclear Station, and how to implement the evacuation of the park. An announcement will be made to park patrons describing the event and its relationship to an emergency at Catawba Nuclear Station. (See Attachment 4 of the plan.)

NOTICE TO BOATERS

IN THE EVENT OF AN EMERGENCY INVOLVING CATAWBA NUCLEAR STATION, SEVERE WEATHER, OR OTHER CONDITIONS REQUIRING EVACUATION OF THE LAKE, YOU WILL BE NOTIFIED BY SIRENS OR RED FLARES. IF THESE SIGNALS ARE OBSERVED, PLEASE:


1. LEAVE THE LAKE IMMEDIATELY.
2. TURN ON RADIO OR TELEVISION TO AN EMERGENCY BROADCAST STATION FOR INFORMATION AND INSTRUCTIONS. STATIONS SERVING THIS AREA INCLUDE:

WBCY-107.9 FM RADIO

WBT-1110 AM RADIO

WBTW-CH. 3 TV

EMERGENCY PLANNING BROCHURES FOR THE NEARBY CATAWBA NUCLEAR STATION ARE AVAILABLE IN THIS AREA AT THE FOLLOWING: PUBLIC MARINAS, MOTELS & HOTELS, POLICE & FIRE STATIONS, PUBLIC LIBRARIES, POST OFFICES AND DUKE POWER COMPANY OFFICES.



You are in an area covered by an emergency warning system. If there were an emergency in this area involving severe weather, Catawba Nuclear Station or other emergency conditions, sirens would sound for a full three minutes. If you hear a siren, turn on your radio or television to an emergency broadcast station.

Radio and television stations that are part of the Emergency Broadcast System would provide emergency information. You should follow the instructions given. Stay tuned to one of these stations for up-to-the-minute information. Stations serving this area include:

WBCY – 107.9 FM Radio

WBT – 1110 AM Radio

WBTW – Ch. 3 TV

Emergency planning brochures for the nearby Catawba Nuclear Station are available in this area at the following: motels & hotels, police & fire stations, public libraries, post offices and Duke Power Company offices.

EMERGENCY PLANNING INFORMATION
CATAWBA NUCLEAR STATION
1985 EDITION

With this letter you will be receiving a quantity of the 1985 Catawba Nuclear Station Emergency Planning Information brochure. Please destroy any of the old issues that you may have around. As part of our emergency planning effort, we ask that you display and make these brochures available to anyone who may want a copy. A Duke Power representative will contact you approximately once a quarter to check on your supply. However, if you run out of brochures before you are called on, call collect at 803/831-2657 (Lake Wylie) or 803/324-5015 (Rock Hill) and a new supply will be delivered immediately. We appreciate your help and cooperation in our emergency planning program.

One hundred (100) copies (or _____ copies as requested) of the CATAWBA NUCLEAR STATION EMERGENCY PLANNING INFORMATION BROCHURE -- 1985 EDITION were delivered to:

(facility name)

(address)

_____, _____
(city) (state)

(signature)

(date)

(Duke Power representative)

ATTACHMENT D

PROCEDURES

FOR

CAROWINDS THEME PARK EVACUATION

FOR

CATAWBA NUCLEAR STATION

- I. PURPOSE. The purpose of this supporting procedure is to augment the existing evacuation plan for Carowinds Theme Park and to more clearly define supporting elements of local government from both North and South Carolina for an accident/incident relating to the Catawba Nuclear Station (CNS). The primary goal of Carowinds management and that of North and South Carolina local governments is to ensure the safety of the theme park visitors and employees.
- II. SCOPE. This procedure is designed to cover an accident/incident at the Catawba Nuclear Station. The use of resources, manpower, and equipment from North and South Carolina for any purpose other than accidents/incidents at CNS will be a discretionary decision made by the municipalities of North Carolina and/or South Carolina and Carowinds Theme Park management.
- III. DISCUSSION. The state border between North Carolina and South Carolina bisects Carowinds Theme Park. The park's general operating seasons corresponds to the closing and opening of schools in the area. The park lies within the ten-mile Emergency Planning Zone (EPZ) of the Catawba Nuclear Station, which is located about 8 to 8.5 miles from Carowinds. The park can accommodate in excess of 25,000 people and requires special consideration in the event total evacuation is recommended. Both states and counties located in the ten-mile EPZ agreed that the Charlotte-Mecklenburg Emergency Management Office (CMEMO) will perform the lead planning role regarding a recommended course of action for the theme park.
- IV. OBJECTIVES. The primary objectives of this procedure is to provide for the safety and welfare of theme park visitors and theme park employees and to determine a course of action for the following:

- A. Alert and Notification
 - B. Traffic Control
 - C. Crowd Management
 - D. Transportation
 - E. Evacuation
 - F. Sheltering
- V. COMMAND AND CONTROL. Senior law enforcement officials from North and South Carolina, along with senior security personnel and theme park management, will direct the operations. Law enforcement personnel from North and/or South Carolina can carry out law enforcement function or other duties within theme park boundary as conditions may warrant. (See Attachment 6 - Interstate Emergency Preparedness Compact between the States of South Carolina and North Carolina.) Additional functions involving law enforcement activities, theme park evacuation, and other activities that would enhance the safety and welfare of citizens of North and South Carolina can be implemented when planning documents and appropriate signatures are in place.
- VI. INITIATING PROCEDURES. The initiating procedures for this planning document will consist of, but not be limited to, the items identified in Paragraph IV., Items A. through F.
- A. In the event of an accident/incident at Catawba Nuclear Station, elements of the local and state government will be notified by the utility within fifteen minutes of the event. (See Attachment 1 - Event Classification.)
 - B. The CMEMO will be the primary source of emergency information and recommendations to implement emergency procedures to Carowinds. The

York County Emergency Management Agency will act as a back-up to the CMEMO for information and/or recommendations to theme park management.

C. Alert and Notification

The CMEMO will be required to notify theme park management at the ALERT stage. Notification at a lower stage will be discretionary and based on variables such as time, day, and operational mode for park.

1. The theme park will be advised routinely on the hour as conditions change, or when a course of action is recommended. The notification procedure will always include termination of plant condition.
2. The primary means of Alert and Notification will be via commercial telephone. Back-up notification methods will include voice radio or dedicated telephone lines. In addition, law enforcement vehicles will be available for back-up communication.
3. Attachment 2 lists primary and secondary key Alert and Notification contacts.
4. In a rapid developing condition, and if the primary and secondary notification agencies are unavailable to implement Item C, Steps 1 and 2 above, the duty dispatcher at the County Warning Point will carry out function as quickly as possible.
5. Theme park management will monitor the tone E-alert radio and the NOAA weather radio at all times that the theme park is operational for information concerning the conditions at CNS.

6. Verification of condition and rumor control will be channeled to the CMEMO, Mecklenburg County Warning Point, York County Emergency Management Agency, or York County Warning Point. See Attachment 2 for appropriate telephone numbers.
7. To ensure security of information and/or recommendations, and to prevent acting on a false alarm basis, the warning point and Carowinds will authenticate the messages transmitted. See Attachment 7 for sample message statements.
 - (a) Authentication code for information only is Code [REDACTED] Evacuation IS NOT expected.
 - (b) Authentication code for recommendation of evacuation is Code [REDACTED].

D. Traffic Control for theme park will consist of one or more law enforcement officers from North and/or South Carolina at key points of entrance and exit roads. These locations, as a minimum, are as follows:

<u>1. Location</u>	<u>Manned</u>
I-77 at Carowinds Boulevard	S.C.
Carowinds Boulevard at Park Entrance	S.C.
Carowinds Boulevard at N.C. Highway 49	N.C.
Carowinds Boulevard at Avenue of the Carolinas	S.C.
Carowinds Boulevard at Catawba Trace	N.C./S.C.
Ocean Island Wave Pool	Carowinds

(a) The locations identified above are the minimum number of off-site traffic control points. Others can be quickly stationed. Also, the above locations will be in addition to locations on-site that will be manned by theme park security officers or appropriate designated officials.

2. All traffic will be routed via the best and quickest way out of the ten-mile EPZ to the shelters.
3. Full car loads are recommended. Buses will be given priority.
4. Unless otherwise directed, all traffic will obey normal speed limits and traffic signals.

E. Crowd Management. As indicated in Paragraph III, the theme park can accommodate in excess of 25,000 people. This figure requires special consideration if total evacuation of the theme park is to be implemented. To ensure a professional response to the theme park evacuation, the following course of action will be followed:

1. The senior law enforcement officials from North and South Carolina, along with senior theme park security, will operate as a team for resource assignment and to resolve problems associated with crowd management. See Paragraph V.
 - (a) This team will be primarily stationary to ensure contact with subordinates, and to allow for easy identification for incoming manpower and resources. See Attachment 8 - Carowinds map for command and control location.
2. Crowd management personnel should consist of, but not be restricted to, law enforcement officials or security personnel and should be assigned to the following locations:
 - (a) Theme park interior areas
 - (b) All parking lot areas
 - (c) Smurf Island
 - (d) Camp grounds
 - (e) Ocean Island Wave Pool

3. Crowd management personnel should be able to direct or provide theme park visitors with the following information:
 - (a) Nearest exit
 - (b) Shelter locations (See Attachment 3)
 - (c) Pick-up point for transportation dependent people
(See Attachment 8 - Carowinds Map for pick-up location)
4. If the theme park is evacuated as a precautionary measure and raincheck park tickets are to be distributed, the location for ticket pick-up should be known and publicized.
5. Advise people in a calm, rational manner that the theme park is being evacuated and that visitors should proceed to shelters or to a safe area that is outside the ten-mile EPZ. See Attachment 4 - Sample Messages.
6. Items identified in (a) through (e) below represent Carowinds' procedures for theme park evacuation.
 - (a) The standard park evacuation procedures will be in effect for this situation. The front gate will be utilized unless the number of patrons exceeds 7,000, or if the Country Crossroads gate is open for other reasons. The decision of which gate is to be used will be at the Loss Prevention Department's discretion. Pre-recorded messages will be played every three to five minutes. (See Attachment 4 - Announcements.) These announcements also will direct all patrons without transportation to the Paladium to await buses from the City of Charlotte, (see Paragraph F.1. - Transportation.) A park management official will be assigned to that area with additional help from other departments to assist in informing

patrons of the nature of the emergency. All other departments will be following the guidelines that are set forth in department responsibilities for this particular procedure. If at all possible, complimentary tickets will be given out at the exit gates along with maps to the nearest shelter. Additional help will be drawn from the park to assist in ticket distribution.

(b) Campground Evacuation

Upon notification of evacuation the following steps should be taken:

- (1) Lifeguard or other campground personnel are to go from campsite to campsite and inform patrons of the situation and to hand out maps for the nearest shelters and proper routes to follow. If available one of the patrol units will make the announcements (on the PA system on the unit).
- (2) Campground tram should run continuously until all campers are back to their sites.
- (3) The lodge will remain open until all sites are clear.
- (4) Campground supervisor notifies communications that campground is secure.
- (5) Communications notifies Loss Prevention that campground staff is available for further duties.
- (6) Loss Prevention will then either direct them to assist with park evacuation, other duties, or clear them to evacuate.

(c) Ocean Island Evacuation - Duties/Procedures

- (1) Manager or assistant makes necessary announcement that

Ocean Island is closing. The same message that is being given over the park PA will be used with the exception of using the front gate for their exit. Patrons that have parked their cars in the main lot will be allowed to use the main exit if the sweep has not reached this point. If this occurs, then upon securing Ocean Island, these patrons will be escorted by Ocean Island Security/EMT or other available personnel to the main exit.

- (2) Food, merchandise and admissions personnel will close and secure their locations. Lifeguards will sweep the complex and notify management when the complex is secure.
 - (3) Toll Plaza person or designee will hand out maps to the nearest shelter.
 - (4) Security/EMT and management should be available to answer questions and direct transportation dependent patrons to the Paladium area.
 - (5) Management will notify Communications that Ocean Island is secure.
 - (6) Communications will then notify Loss Prevention that Ocean Island is secure and that Ocean Island personnel are available to assist with evacuation.
 - (7) Loss Prevention will then either direct them to assist with evacuation or other duties or will clear them to evacuate.
- (d) Employee Evacuation
- (1) All non-essential employees (i.e. line employees) will be

evacuated as soon as their work location is secure. Employees without transportation will be directed to the Paladium for evacuation to the nearest shelters. The remaining employees will be given maps to the nearest shelter upon exiting Post I.

- (2) Management, full time, supervisory personnel upon completion of their departmental duties will notify Loss Prevention of their availability. They will be informed of any duties needed or informed to evacuate the property.

NOTE: Park employees who are residents of Mecklenburg County, York County or adjoining county and live within the ten-mile EPZ should report to the shelter location (see Attachment 3, Shelter Listings). If the employee lives outside the ten-mile EPZ then they may proceed to their respective homes.

(e) Department Responsibilities

All actions and plans will be directed by the Loss Prevention Department. The general manager or officer of the day or director of park operations will assist this department in the procedures that have been set forth.

During this evacuation, Communications will be established as a command post and any actions taken will be coordinated through that post. Should that building be incapacitated, management will designate another location to perform the same function.

Management or Loss Prevention will designate a manager or chief security officer to coordinate all activities in the command center. This person will see that all unnecessary radio traffic is kept to a minimum and that requests are carried out according to plan.

The Loss Prevention officials will report to the command post to determine the necessary requirements for emergency equipment, area evacuation, or notification of other services.

As soon as this information is available at the command post, Communications will contact by telephone or radio as required the Charlotte-Mecklenburg Emergency Management Office. (See Attachment 2.)

Responsibilities of Departments

- (1) In the event of this evacuation all departments will be expected to secure their respective areas and assist in whatever way possible.
- (2) Full-time and supervisory personnel will be expected to provide guidance to seasonal employees and guests.
- (3) Each department should be aware of the following selected responsibilities assigned to them and be prepared to provide these services if called upon to do so.

Security

All security officers will maintain their respective posts and direct guest activities.

When directed to do so by Communications or a sergeant or Loss Prevention manager, designated security personnel will respond to the scene and assist in crowd control, or evacuation.

In the evacuation of the park, security will block off appropriate paths and will use bull horns to direct patrons and employees to proper exits or stations. County Fair, Smurf Island and Hanna Barbera will be blocked to ensure exiting pedestrian flow only.

Emergency equipment entering the park will be given priority by security and will be escorted to the affected areas in a safe and sane manner.

If these events expose company assets to loss from theft or looting, the security manager or designated officer, will assign security personnel and position them at necessary locations until the park is secured.

Maintenance

Ride mechanics personnel will assist in securing all rides. Electricians will stand-by to shut off service and secure rides.

Plumbers will shut down fountains, gas, etc. as soon as possible. HVAC&R personnel will secure heating and air conditioning systems. Auto mechanics shall stand by to assist motorist and company vehicles experiencing mechanical problems.

Marketing

See Marketing Emergency Information Plan.

Live Shows

The Sound Department will provide at least one technician available at the Sound Control Center to make special broadcasts and announcements. Also, a technician will be required in the Paladium to set up a PA system for transportation dependent patrons and employees.

Finance

The Finance Department will be responsible to secure all vault and change areas and, if necessary, request an armed security officer to stand by.

Merchandising

The Merchandising Department will be responsible for securing all retail areas, making sure all cash registers are locked and that all money is returned to Cash Control.

Food Service

The Food Service Department will be responsible for securing all food stands, making sure all cash registers are locked and that all money is returned to Cash Control.

First Aid

All First Aid personnel will remain at the First Aid Station until the evacuation is complete. Standby ambulances will be stationed at First Aid.

Where possible, any guest or employee requiring medical attention will be transported by in-park ambulance to the First Aid Station.

The registered nurse on duty will, where possible, coordinate the treatment and priority of transportation of all victims.

Loss Prevention

The Loss Prevention Department will coordinate and direct all activities with park and outside agencies.

Parking and Admissions

The parking lot staff will establish control of traffic flow both in and out of the park at the Avenue of the Carolinas gates.

Only emergency equipment or personnel will be permitted entry into the parking area or park.

Parents wishing to pick up their children will be directed to the pick up point.

Guest Relations

Guest Relations shall maintain an information center at the front gate. If this is not possible, a new location will be selected and established. Coordination with the communication command post will be maintained in order to provide accurate information to our guests.

Rides

The Rides Department will shut down, evacuate and secure all necessary rides. The attractions manager or assistants will stand by to assist in the evacuation of rides and when complete will assist in park evacuation as requested.

Wardrobe

The Wardrobe Department shall be prepared to assist as needed.

Communications

Communications will be responsible to man the Radio Control Center. All radio communications will be coordinated through the Loss Prevention officer of the day or Loss Prevention manager.

Communications will request that all unused 2-way radios be returned to the base for utilization in the evacuation.

Emergency Radio Signals

The signals used to identify the type of incident or emergency transmitted over the radio are as follows:

See emergency Radio Codes Section

All Departments

As soon as initial duties are complete notify Communications of areas secure and that these employees are available to assist in other areas. Communications will then notify Loss Prevention of their availability and Loss Prevention will either direct them to an area or clear them to evacuate.

F. Transportation. The primary means of transportation away from Carowinds will be private vehicles. Ride sharing for adults is recommended to ensure a quick exit from park area. The following additional resources will be in place:

1. A minimum of five City of Charlotte transit buses will be dispatched to Gate P-5 (see attached map) under City of Charlotte Police escort

to assist in moving transportation dependent people.

(a) Children will receive the highest priority to board buses.

All children will be evacuated before adults are moved.

2. Additional buses, as identified in F.1., above, can be utilized as conditions warrant.
 3. A minimum of one ambulance from Mecklenburg County and one ambulance from York County will be dispatched for standby medical situations. These ambulances will be staged at the command and control site as identified in Paragraph E.1.(a) above.
 4. All transportation vehicles will observe normal traffic laws unless otherwise directed by appropriate law enforcement officials.
 5. Request for additional transportation will come via the command and control team to local warning points or to local EOCs.
- G. Shelter and Evacuation. A total evacuation of the theme park will consist of, but not limited to, the following elements:
1. All personnel must leave the theme park area as quickly as possible after receiving the evacuation order or recommendation.
 2. Total shut-down of theme park will be based on existing Carowinds procedures and will be implemented by park personnel.
 3. Shelter space can be provided to all park visitors as conditions warrant.
 - (a) Park visitors who are permanent residents of Mecklenburg County, York County, Gaston County, or adjoining counties, living outside the ten-mile EPZ have the option of returning home or reporting to shelter location before proceeding home. (See Attachment 3, Shelter Listing). Park visitors who are permanent residents of the above counties and live inside the ten-mile EPZ should report to a shelter location.

- (b) Park visitors who are transient (not residents of above counties) should proceed to shelter location. After being processed through shelter check-in procedure, the transient population can either stay at shelter or can proceed to their permanent residence.
4. All transportation dependent people, especially children, will be transported to either South Mecklenburg High School or to Quail Hollow Junior High School. These locations are designated as reception centers. If the situation warrants, and based on time factor, the evacuees located at the above location will be moved to shelter locations. Reception centers are not shelters, and therefore no person will spend the night in a reception center.
 5. All shelters will be staffed as outlined in SOP and as referenced in basic planning documents for Catawba and McGuire Nuclear stations.

ATTACHMENT 1

I. Emergency Classification System

The emergency classification and action level scheme used in this plan is consistent with that established by NUREG-0654.

This system is used by State and local governments. State and local governments will rely on information and recommendations provided by the station for determination of minimum initial offsite response measures.

A. The four classes of emergencies are:

Notification of Unusual Event
Alert
Site Area Emergency
General Emergency

1. Notification of Unusual Event

Events are in process or have occurred which indicate a potential degradation of the level of safety of the plant.

No releases of radioactive material requiring offsite response or monitoring are expected unless further degradation of safety occurs.

2. Alert

Events are in progress or have occurred which involve an actual or potential substantial degradation of the level of safety of the plant.

Any releases are expected to be limited to small fractions of the EPA Protective Action Guideline exposure levels.

3. Site Area Emergency

This class represents actual or likely major failures of plant functions needed for protection of the public. Any radioactive releases are not expected to exceed the levels requiring offsite protective action except near the site boundary. In this situation full mobilization of emergency personnel in the near-site environs is indicated and monitoring teams and associated communications are dispatched.

4. General Emergency

This class involves actual or imminent substantial core degradation or melting with the potential for loss of containment. The immediate action for this class is sheltering (staying inside) rather than evacuation until an assessment can be made that: (1) an evacuation is indicated, and (2) an evacuation, if indicated, can be completed prior to significant release and arrival of radioactive material in the affected areas.

ATTACHMENT 2

PRIMARY AND SECONDARY CONTACT LIST

A. <u>Mecklenburg County</u>	<u>Office</u>	<u>Home</u>	<u>Other</u>
1. L. Wayne Broome	[REDACTED] (1)	[REDACTED]	[REDACTED] (3)
1.1. Luther L. Fincher, Jr.	[REDACTED] (1)	[REDACTED]	[REDACTED] (3)
2. Mecklenburg County Warning Point	[REDACTED] (2)		
B. <u>York County</u>	<u>Office</u>	<u>Other</u>	
1. Cotton Howell	[REDACTED] (1)	[REDACTED] (2)	
	[REDACTED]	[REDACTED] (2)	
2. York County Warning Point	[REDACTED] (2)		
C. <u>Carowinds</u>	<u>Office</u>	<u>Office</u>	
1. Eric L. Helms	[REDACTED]	[REDACTED]	
2. Tom Oliphant	[REDACTED]	[REDACTED]	
3. Mike Nicholas	[REDACTED]	[REDACTED]	

Code

- (1) Normal Business Hours
- (2) 24-Hour Number
- (3) By pager through Charlotte Fire Department at [REDACTED]

ATTACHMENT 3

SHELTER LISTING FOR
NORTH AND SOUTH CAROLINA FOR
CATAWBA NUCLEAR STATION

Zones	Communities	Primary Evacuation Routes	Shelters
A-0 NC	Snug Harbor Rd. area	1. NC 49 east to shelter	1 UNCC
A-1	McDowell Park/Camp Steere. McKee Rd./Thomas Rd. area. Pine Harbor Rd./Soldier Rd./Four Horse Rd. area, Pleasant Hill Rd., Steele Creek VFD #2		
A-2	Arrowood Southern Ind. Park, Carowinds (NC), Island Point Rd., Jane Parks McDowell Rd., Rock Island Rd., Southbourne, Steele Creek VFD #1, Tarragate Farms, Twelve Oaks Wildlife Rd., Windy Gap Rd., Withers Rd.	1. NC 49 east to shelter or, NC 160 to I-77 North, I-77 North to I-85 East to NC 49, east to shelter	1 UNCC
A-3	Cit. of Pineville	1. NC 51 east to Providence Rd. (NC 16) Left on Providence to Wendover Right on Wendover to Eastway Dr. Follow Eastway to US 29. Right on US 29 to NC 49, east to shelter.	1 UNCC
A-0 SC	Concord Rd./Allison Creek Rd., Hudson Rd., Liberty Hill Rd.	1. SC 55 west to SC 5, north to US 29, west to Rutherford St. in Blacksburg. Left on Rutherford St. to Blacksburg High School. 2. SC 55 west to SC 5, north to US 29, west to Cherokee Vocational School. 3. SC 55 west to SC 5, north to US 29, west to SC 18. Left on SC 18, south to East Junior High School in Gaffney. 4. SC 55 west to SC 5, north to US 29, west to SC 18, south to Gaffney High School. 5. SC 55 west to SC 5, north to US 29, west to West School. 6. SC 55 west to SC 5, north to US 29, west to B.D. Lee Elementary School. 7. I-85 West to Luther Vaughn Elementary School.	2 Blacksburg High School 3 Cherokee Vocational School 4 East Junior High School 5 Gaffney High School 6 West School 7 B.D. Lee Elementary School 8 Luther Vaughn Elementary School
B-1	Grey Rock II, Tega Cay	1 Mt. Gallant Rd. to Celanese Rd. (SC 161) to I-77 South to US 21 exit US 21 South to SC 5, east to US 521 US 521, south to SC 9, west to Earr Street Junior High School.	9 Barr Street Junior High School
B-2	Carowinds (SC), Doby Bridge Rd., Forest Lake, Fort Mill, Fort Mill Rural VFD 1, 2, 3, Heritage U.S.A., Riverview	2 SC 160 east to US 521, south to SC 9. West on SC 9 to North Elementary School.	10 North Elementary School 10 Lancaster Senior High School
C-1	Brookwood/Forest Hills, Bryant Field Airport, Camelot Woods/ Cedarwood, Cedar Forest Acres, Church Hill Heights, Devonshire, Forest Acres, Glenwood Acres, Hickory Hill, Kimberly Woods, Lakewood Acre, Monterey Hills, River Pines, Trexler Acres, Twin Lakes, Willow Acres, Woodforest, Woodwind	3 SC 160 east to US 521, south to SC 9. West on SC 9 to Lancaster Senior High School.	

Additional shelters are available in North Carolina and will be opened as conditions warrant.

ATTACHMENT 3 - SHELTER LISTING FOR NORTH AND SOUTH CAROLINA FOR CNS (Continued)

Zones	Communities	Primary Evacuation Routes	Shelters
C-2	All of City of Rock Hill except areas north of Celanese Rd. Belair Acres, Cato Estates, Coventry Estates, Coventry Oaks, Eastview Rd., Fairlawn Hallmark Estates, Hutchinson Acres, Lakeview Acres, Meadowlakes, Oak Park Rd / Falls Rd., Old Woods, Quiet Acres, Ragin Estates, Rawlinson Woods, Red Oaks, Rock Hill Industrial Park, Squire Estates, Sturgis Estates, Swan Meadows, Westerwood Acres, Wintercrest, Woodbridge, Woodvale	<ol style="list-style-type: none"> 1 I-77 South to SC 9, east to Lewisville High School and Lewisville Middle School 2 SC 72 south to SC 72 By-Pass, south to Chester High School 3 US 321 south to S-29, south to North Chester Head Start School 4 SC 72 south to Chester Junior High School 5 SC 72 south to Dora Jones-Gayle Elementary School 6 I-77 South to SC 97, East on SC 97 to SC 99, South on SC 99 to SC 138, Right (west) on SC 138 to Great Falls High School 7 I-77 South to SC 97, East on SC 97 to SC 99, South on SC 99 to Great Falls Middle School 	<ol style="list-style-type: none"> 12 Lewisville Middle School 13 Lewisville High School 14 Chester Senior High School 15 North Chester Head Start School 16 Chester Junior High School 17 Dora Jones-Gayle Elementary School 18 Great Falls High School 19 Great Falls Middle School
D-1	Adnah Church Rd., Campbell Rd., Shiloh Rd., Trzah Rd., Wedgefield Dr./Farmstead Rd. area, Windsong Lane/Rollingswood Circle/Iveywood Dr. area	<ol style="list-style-type: none"> 1 SC 49 west to SC 9, North on SC 9 to Lockhart School 2 SC 49 west to Union, SC and to Union High Complex 	<ol style="list-style-type: none"> 20 Lockhart School 21 Union High Complex
D-2	Beth Shiloh Rd., Branch Rd., Fairhope Rd., Lakewood Rd., Old Limestone Rd., Pioneer Rd., Seneca Rd., Turkey Farm Rd., York		
E-1	Clearcreek Rd., Kinsbury Rd., Mountain View Rd., Nany Mountain, Pine Forest Dr., Tidewood Lane	<ol style="list-style-type: none"> 1 SC 55 west to SC 5, north to US 29, west to Rutherford Street in Blacksburg, Left on Rutherford Street to shelter 	<ol style="list-style-type: none"> 2 Blacksburg High School
F-1	Bethel School Rd., Camp Thunderbird, Croch Rd./Johnson Rd./Morningstar Rd./Marina Way Rd./Riverfront Rd. area, Holland Dr., Lake Wylie Woods, River Hills, Stowe Rd	<ol style="list-style-type: none"> 1 SC 55 west to SC 5, north to US 29, west to Cherokee Vocational School 2 SC 55 west to SC 5, north to US 29, west to SC 18, Left on SC 18, south to East Junior High School in Gaffney 	<ol style="list-style-type: none"> 3 Cherokee Vocational School 4 East Junior High School
E-2	Brightwood Dr./Tidewood Lane, Calabash Rd., Clearcreek Rd./Crimand Rd., Clover, Jim McCarter Rd., Meadow Rd./Brown Rd., Ramble Rd., St. Paul Church Rd., Wood Rd./Nichols Rd.	<ol style="list-style-type: none"> 1 SC 55 west to SC 5, north to US 29, west to SC 18, south to Gaffney High School 2 SC 55 west to SC 5, north to US 29, west to S-89, north to West School 3 SC 55 west to SC 5, north to US 29, west to S-31, north to B.D. Lee Elementary School 4 I-85 West to Luther Vaughn Elementary School 	<ol style="list-style-type: none"> 5 Gaffney High School 6 West School 7 B.D. Lee Elementary School 8 Luther Vaughn Elementary School
F-2	Bowling Green, Brandon Rd./Oakridge Rd., Green Pond Rd., Homedale Rd./Stateline Rd., Love Rd./Kendrick Rd., Pole Branch Rd./Fewell Rd., Ridge Rd., River Oaks Rd./Singing Pine Drive		
F-3	Catawba Cove Drive, Country Woods, Farmwood, Forest Cove, Frances Ct./Glover Rd., Lake Wylie Rd., Moore Rd./Eller Rd., Moss Haven, Old Whisnant Farm Rd., Paradise Point, Patrick Rd./Wilson Farm Rd., Zellwood	<ol style="list-style-type: none"> 1 NC 274 north to Garrison Blvd., west to shelter 	<ol style="list-style-type: none"> 22 Ashey Junior High School

Additional shelters are available in North Carolina and will be opened as conditions warrant.

ATTACHMENT 4

ANNOUNCEMENT FOR ACCIDENT/INCIDENT
AT CATAWBA NUCLEAR STATION

ATTENTION ALL PARK VISITORS - COULD I HAVE YOUR ATTENTION PLEASE!

A CONDITION HAS DEVELOPED AT THE CATAWBA NUCLEAR STATION THAT REQUIRES IMMEDIATE EVACUATION OF CAROWINDS. PLEASE PROCEED TO YOUR CAR OR BUS AS QUICKLY AS POSSIBLE. FOLLOW THE DIRECTIONS GIVEN BY PARK SECURITY OR POLICE OFFICERS. THERE IS SUFFICIENT TIME TO MOVE ALL PARK VISITORS TO SAFETY. ALL VISITORS WITHOUT TRANSPORTATION PLEASE REPORT TO THE PALADIUM AT THE FRONT ENTRANCE IMMEDIATELY. MAPS TO THE NEAREST SHELTER ARE AVAILABLE UPON EXITING.

ATTACHMENT 5

GLOSSARY

Alpha Particle - A particle, identical with the nucleus of a helium atom, emitted spontaneously from the nucleus of some radioactive elements. Alpha particles have very little penetrating power but are hazardous if ingested or inhaled.

Beta Particle - A particle, identical with a high speed electron, emitted spontaneously from the nucleus of some radioactive atoms. Beta particles have little penetrating power but can be hazardous if inhaled, ingested, or brought into contact with the skin.

Contamination - Loose radioactive materials in unwanted places such as on the skin or on clothes. It can usually be removed by simple cleaning.

Crisis Management Center - The power company facility used for direction and control of all emergency and recovery activities with emphasis on the coordination of off-site activities such as dispatching mobile emergency monitoring teams, communications with local, State and Federal agencies, and coordination of corporate and other outside support.

Dose - The quantity of radiation absorbed, per unit of mass, by the body or by any portion of the body.

Dose Rate - The amount of ionizing radiation delivered per unit of time.

Dosimeter - An instrument for measuring and registering total accumulated exposure to penetrating, ionizing radiation.

Emergency Operations Center - The facility from which government officials exercise direction and control in an emergency.

Emergency Planning Zone (EPZ) - The area for which planning is needed to assure that prompt and effective actions can be taken to protect the public in the event of an accident. The plume exposure EPZ is about ten miles in radius and the ingestion exposure EPZ is about fifty miles in radius.

Gamma Rays - Electromagnetic radiation of high energy originating in atomic nuclei and accompanying many nuclear reactions. Gamma rays do not consist of particles, have no mass, travel at the speed of light, are highly penetrating, and may, at high levels, cause damage to living tissue.

Ion - An atom or molecule that has lost or gained one or more electrons, and thus has become electrically charged.

Ionizing Radiation - Any gamma rays, X-rays, alpha or beta particles, high speed electrons, protons, or nuclear particles that displace electrons from atoms or molecules as they pass through matter thereby producing ions. Ionizing radiation may produce skin, tissue, or organ damage.

Irradiation - The exposure to ionizing radiation.

Isotopes - Forms of elements having identical chemical properties but differing in atomic weight. See radioactive isotope.

ATTACHMENT 5

Milliroentgen - A one-thousandth (0.001) part of a roentgen. See roentgen.

Millirem - A one-thousandth (0.001) of a rem. See rem.

Off-Site - All public and private property surrounding the fenced or otherwise secured fixed nuclear facility property.

On-Site - The fenced or otherwise secured fixed nuclear facility property.

Plume Exposure Pathway - The potential pathway of radioactive materials to the public through (a) whole body external exposure to gamma radiation from the plume and from deposited materials and (b) inhalation of the passing radioactive plume. The time of potential exposure could range from hours to days.

Protective Actions - Emergency measures taken for the purpose of preventing or minimizing radiological exposures.

Protective Action Guide (PAG) - The level of radiation dose to individuals at which protective actions would be ordered if this level of radiation dose is projected to occur. The PAG's are provided by the U.S. Environmental Protection Agency.

Radiation - As used in nuclear terminology, refers to energy propagated in the form of high frequency electromagnetic waves such as X-rays and gamma rays, or in the form of nuclear particles such as alpha, beta, or neutron radiation. See ionizing radiation.

Radiation Protection Emergency Team - A team sent from the Radiation Protection Section, North Carolina Department of Human Resources, to the emergency site to perform technical operations and advise the State Emergency Response Team.

Radioactive Isotope - (Radioisotope) An unstable isotope of an element that decays or disintegrates while spontaneously emitting radiation.

Radioactive Material - Any solid, liquid, or gas which spontaneously emits ionizing radiation.

Radiological Exposure Control - Actions that can be taken to protect the general public, emergency workers, livestock, food, water or property from radiation.

Rem - A unit of measure of dose from any radiation (alpha particles, beta particles, gamma rays, or neutrons) to body tissue in terms of its estimated biological effects. This unit of measure takes into consideration the varying damage causing potential of exposure to X-rays, gamma rays, beta particles, and neutrons.

Roentgen - A unit of exposure of gamma (or X) radiation.

Shielding - Any material or obstruction that absorbs (stops) radiation.

ATTACHMENT 5

State Emergency Response Team (SERT) - A team sent from the N.C. Department of Crime Control and Public Safety to the emergency site to coordinate all State actions (and local actions in a declared State of Disaster). The team may include representatives from other State agencies.

Warning Point - A facility operated by local government that receives warning and other information and disseminates or relays this information in accordance with a prearranged plan.

Whole Body Exposure - The external exposure of a person or an animal to radiation.

ATTACHMENT 6

INTERSTATE EMERGENCY PREPAREDNESS COMPACT BETWEEN THE STATES
OF SOUTH CAROLINA AND NORTH CAROLINA

The contracting States solemnly agree:

ARTICLE I

The purpose of this compact is to provide mutual aid between the states in meeting any emergency or disaster, whether natural or man-made, or enemy attack, including sabotage and subversive acts and direct attacks by bombs, shellfire, and atomic, radiological, chemical, bacteriological means, and other enemy weapons. The prompt, full and effective utilization of the resources of the respective states, including such resources as may be available from the United States Government or any other source, is essential to the safety, care and welfare of the people of the states in the event of emergency, disaster or enemy attack; and all resources, including personnel, equipment or supplies, shall be incorporated into a plan or plans of mutual aid to be developed between the emergency preparedness agencies or similar bodies of the states that are parties to the compact. The Directors of Emergency Preparedness/Management of party states shall constitute a committee to formulate plans and take all necessary steps for the implementation of this compact.

ARTICLE II

It shall be the duty of each state to formulate emergency preparedness plans and programs for application within the state. There shall be frequent consultation between the representatives of the states and with the United States Government and the free exchange of information and plans, including inventories of any materials and equipment available for emergency response. In carrying out the emergency preparedness plans and programs the party states shall so far as possible provide and follow uniform standards, practices, and rules and regulations.

ARTICLE III

Any party state requested to render mutual aid shall take such action as is necessary to provide and make available the resources covered by this compact in accordance with its terms. The state rendering aid may withhold resources to the extent necessary to provide its own reasonable protection. Each party state shall extend to the emergency preparedness forces of any other party state, while operating within its state limits under the terms and conditions of this compact, the same powers, except that of arrest unless specifically authorized by the receiving state, and the same duties, rights, privileges, and immunities as if they were performing their duties in the state in which normally employed or rendering services. Emergency preparedness forces will continue under the command and control of their regular leaders but the deployed organizational units will come under the operational control of the emergency preparedness authorities of the state receiving assistance.

ARTICLE IV

Whenever any person holds a license, certificate or other permit issued by any state evidencing the meeting of qualifications for professional, mechanical or other skills, such person may render aid involving that skill in any party state to meet an emergency or disaster and that state shall give due recognition to such license, certificate or other permit as if issued in the state in which aid is rendered for the duration of the emergency or disaster only.

ARTICLE V

No party state or its subdivisions, or public officers, employees or volunteers thereof rendering aid in another state pursuant to this compact shall be liable to third parties on account of any act or omission in good faith on the part of such forces while so engaged, or on account of the maintenance or use of any equipment or supplies in that connection.

ARTICLE VI

Inasmuch as it is probable that the pattern and detail of the machinery for mutual aid among two or more states may differ from the appropriate among other party states, this instrument contains elements of a broad base common to all states, and nothing herein shall preclude any state from entering into supplementary agreements with another state or states. Additionally, nothing herein shall preclude any political subdivision within the party states from entering into supplementary agreements between or among one another. Such supplementary agreements may comprehend, but shall not be limited to, provisions for evacuation and reception of injured and other persons, and the exchange of medical, fire, police, public utility, reconnaissance, welfare, transportation and communications personnel, equipment and supplies.

ARTICLE VII

Each party state shall provide for the payment of compensation and death benefits to injured members of the emergency preparedness forces of that state and the representatives of deceased members of such forces in case such members sustain injuries or are killed while rendering aid in another state pursuant to this compact, in the same manner and on the same terms as if the injury or death were sustained within such state.

ARTICLE VIII

Any party state rendering aid in another state pursuant to this compact shall be reimbursed by the party state receiving such aid for any loss or damage to, or expense incurred in the operation of any equipment answering a request for aid, and for the cost incurred in connection with such requests. Any aiding party state may assume in whole or in part such loss, damage, expense, or other cost, or may loan equipment or donate such services to the

receiving party state without charge or cost, and any two or more party states may enter into supplementary agreements establishing a different allocation of costs as among these states. The United State Government may relieve the state receiving aid from any liability and reimburse the state supplying emergency preparedness forces for the compensation paid to and the transportation, subsistence and maintenance expenses of such forces during the time of the rendition of such aid or assistance outside the state and may also pay fair and reasonable compensation for the use or utilization of the supplies, materials, equipment or facilities so utilized or consumed.

ARTICLE IX

Plans for the orderly evacuation and reception of the civilian population as the result of an emergency or disaster shall be worked out between representatives of the party states and the various local emergency preparedness areas. Such plans shall include the manner of transporting evacuees, the number of evacuees to be received in different areas, the manner in which food, clothing, housing, and medical care will be provided, the registration of the evacuees, the providing of facilities for the notification of relatives or friends and the forwarding of evacuees to other areas or the bringing in of additional materials, supplies, and all other relevant factors. The plans shall provide that the party state receiving non-resident evacuees shall be reimbursed generally for the out-of-pocket expenses incurred in receiving and caring for the evacuees, including expenditures for transportation, food, clothing, medicines, medical care and like items. The expenditures shall be reimbursed by the party state of which the evacuees are residents, or by the United States Government under plans approved by it. After the termination of the emergency or disaster the party state of which the evacuees are residents shall assume the responsibility for the ultimate support or repatriation of such evacuees.

ARTICLE X

The committee established pursuant to Article I of this compact may request the Federal Emergency Management Agency (FEMA) of the United States Government to act as an informational and coordinating body under this compact, and representatives of the agency of the United States Government may attend meetings of the committee.

ARTICLE XI

This compact shall become operative between the State of North Carolina and the State of South Carolina immediately upon its being entered into by the duly authorized officials of such states, and shall be subject to approval by Congress unless prior Congressional approval has been given. Duly authenticated copies of this compact and of such supplementary agreements as may be entered into shall, at the time of their approval, be deposited with each of the party states and with the Federal Emergency Management Agency and other appropriate agencies of the United States Government.

ARTICLE XII

This compact shall continue in force and remain binding on each party state until the legislature or the Governor of the party state takes action to withdraw therefrom. Such action shall not be effective until thirty days after notice has been sent by the Governor of the party state desiring to withdraw to the Governor of the other party state.


ARTICLE XIII

The term "state" shall include any territory or possession of the United States, the District of Columbia, and any neighboring foreign country or province or state thereof.

ARTICLE XIV

This compact shall be construed to effectuate the purposes stated in Article I. If any provision of this compact is declared unconstitutional, or the applicability to any person or circumstance is held invalid, the constitutionality of the remainder of this compact and the applicability to other persons and circumstances shall not be affected.

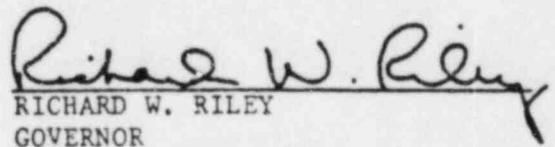
FOR THE STATE OF NORTH CAROLINA



JAMES B. HUNT, JR.
GOVERNOR

Date: November 29, 1984

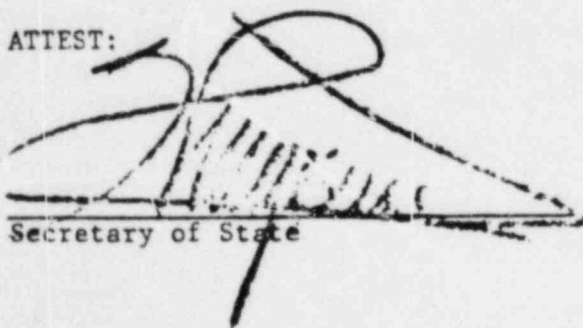
FOR THE STATE OF SOUTH CAROLINA



RICHARD W. RILEY
GOVERNOR

Date: November 5, 1984

ATTEST:



Secretary of State

ATTEST:

Secretary of State

ATTACHMENT 7

SAMPLE NOTIFICATION STATEMENTS

Notification of events at Catawba Nuclear Station when evacuation IS NOT expected to be necessary:

This is _____ of the _____
_____. There are events taking place at
the Catawba Nuclear Station that we feel you need to be aware of. The
condition at the station is as follows: _____

Verification Code: [REDACTED]

Notification of plant condition with a RECOMMENDATION OF EVACUATION.

This is _____ of the _____
_____. We are in a critical condition
concerning the Catawba Nuclear Station. It is our recommendation that
Carowinds implement a signal 99 code 100. A follow-up will be provided.

Verification Code: [REDACTED]

DISTRIBUTION

Charlotte-Mecklenburg Emergency Management Office	2
Mecklenburg County Warning Point	1
D. G. Lutrick, Ass't. Chief, Mecklenburg County Police Department	1
S. H. Killman, Division Commander, Charlotte Police Department	1
R. H. Pressley, Jr., Director, Department of Transportation (City)	1
Cotton Howell, Director, York County Emergency Preparedness	2
Tom Oliphant, Carowinds	1
James Self, N. C. Division of Emergency Management	1
Paul Lumsford, S. C. Emergency Management	1
Ron Harris, Duke Power Company	1
Ben Thomas, S.C. State Law Enforcement Division	1
1st Sgt. Robert R. Samuels, N.C. State Highway Patrol	1
Steve Wilkerson, MEDIC	1
Betty Long, Red Cross	1
Joe Green, Charlotte-Mecklenburg Schools	1

Any changes to this planning document should be in writing and directed to the Charlotte-Mecklenburg Emergency Management Office.