

DOCKETED
USNRC
UNITED STATES OF AMERICA
NUCLEAR REGULATORY COMMISSION

BEFORE THE ATOMIC SAFETY AND LICENSING BOARD

'84 APR 17 P5:15

In the Matter of)	
)	
DUKE POWER COMPANY, <u>et al.</u>)	Docket Nos. 50-413
)	50-414
(Catawba Nuclear Station,)	
Units 1 and 2))	

APPLICANTS' TESTIMONY ON
EMERGENCY PLANNING CONTENTION 1 AND 7

Duke Power Company	(R.M. Glover, P.F. Carter,
	M.L. Birch, S.V. Duckworth)
North Carolina	(J.T. Pugh, III)
South Carolina	(P.R. Lunsford, W.M. McSwain,
	S.L. Finklea III)
Gaston County	(Bob E. Phillips)
Mecklenburg County	(Lewis Wayne Broome)
York County	(Phillip Steven Thomas)

April 16, 1984

1 TESTIMONY OF DUKE POWER COMANY
2 (R M. GLOVER, P.F. CARTER,
3 M.L. BIRCH, AND S.V. DUCKWORTH) ON
4 EMERGENCY PLANNING CONTENTIONS 1 AND 7

5 Background Information

6 Q. PLEASE STATE YOUR NAME PLACE OF EMPLOYMENT AND
7 PROFESSIONAL QUALIFICATIONS, AND SUMMARIZE YOUR
8 OCCUPATIONAL DUTIES.

9 A. R.M. Glover, Duke Power Company. See my attached
10 resume.

11 P.F. Carter, Duke Power Company. See my attached
12 resume.

13 M.L. Birch, Duke Power Company. See my attached
14 resume.

15 S.V. Duckworth, Winthrop College. See my attached
16 resume.

17 Q. WHAT IS THE PURPOSE OF YOUR TESTIMONY?

18 A. The purpose of my testimony is to address CESG and PA
19 Contentions 1 and 7 as they relate to Duke's
20 Emergency Plan brochure. (RMG, PFC, MLB, SVD)

21 EPC 1 and 7 Testimony

22 Q. ARE YOU FAMILIAR WITH DUKE'S EMERGENCY PLAN BROCHURE?

23 A. Yes. (RMG, MLB, PFC, SVD)

24 Q. PLEASE DESCRIBE YOUR ROLE IN THE PREPARATION OF THE
25 BROCHURE.

- 1 A. 1. I had the overall responsibility for researching
2 information for inclusion in the brochure,
3 drafting copy, developing design and format,
4 gathering approvals, and distributing the
5 brochure. (PFC)
- 6 2. As Emergency Response Coordinator for Duke, I
7 had the responsibility for providing technical
8 input concerning NRC regulations and what
9 information had to be included in the brochure
10 to meet this criteria. (RMG)
- 11 3. I provided information with regard to radiation
12 dosage and related health effects. (MLB)
- 13 4. I was asked by Duke to review the 1984 Edition
14 of the Emergency Plan brochure to assess the
15 applicable reading levels. I also reviewed an
16 earlier draft and suggested modifications to
17 lower the reading level. (SVD)
- 18 Q. WHAT IS THE PURPOSE OF THE BROCHURE?
- 19 A. The purpose of the brochure is to provide residents
20 within the EPZ with information on what to do in
21 response to an emergency at the Catwba Nuclear
22 Station. (RMG, PFC)
- 23 Q. PLEASE DESCRIBE WHAT STEPS WERE TAKEN IN PREPARING
24 THE BROCHURE.
- 25 A. 1. All pertinent government documents were reviewed
26 to determine required information.

- 1 2. Other emergency brochures from around the
2 country were reviewed.
- 3 3. Duke Power emergency planning officials were
4 consulted on content.
- 5 4. An outline of information to be included was
6 prepared.
- 7 5. The outline was reviewed by Duke Power emergency
8 planning officials.
- 9 6. A draft copy of the brochure was prepared.
- 10 7. The draft copy was sent to Duke Power emergency
11 officials for distribution to state and local
12 officials for review.
- 13 8. A copy was sent to a reading specialist for
14 determination of reading level.
- 15 9. A revised draft was prepared based on input from
16 emergency planning officials and the reading
17 specialist.
- 18 10. A preliminary version of the brochure was
19 produced.
- 20 11. Copies were distributed to federal, state and
21 local emergency planning offices. The brochure
22 was also distributed at public meetings held
23 within the EPZ. Copies were provided to
24 intervenors and other interested parties.

1 12. Comments and suggestions to improve the brochure
2 were received from all parties, the general
3 public, intervenors, governmental officials and
4 committees.

5 13. All comments and suggestions were reviewed and a
6 number of changes in content were made.

7 14. The final brochure was produced and distributed.
8 (PFC)

9 Q. WAS THERE A PROCEDURE FOR REVIEW OF THE BROCHURE AND
10 ITS CONTENTS? IF SO, PLEASE DESCRIBE IT.

11 A. Yes. The brochure was reviewed by the NRC, FEMA,
12 N.C. emergency planning officials, S.C. emergency
13 planning officials, Palmetto Alliance/CESG, the
14 Mecklenburg County Emergency Planning Review
15 Committee, and was issued to approximately 3,000
16 members of the general public who attended a number
17 of emergency planning meetings. Input from all of
18 these groups was used in the final version of the
19 brochure. (PFC)

20 Q. WHAT CRITERIA MUST BE MET IN ORDER FOR THE EMERGENCY
21 PLAN BROCHURE TO COMPLY WITH NRC REGULATIONS?

22 A. The brochure must contain information required by 10
23 CFR §50.47(b)(7) and 10 CFR Part 50, Appendix E, Part
24 D.2 and NUREG-0654, Rev. 1 Part G.1. (RMG)

1 Q. DOES DUKE'S REVISED BROCHURE TITLED "CATAWBA NUCLEAR
2 STATION EMERGENCY PLAN - 1984 EDITION" MEET THESE
3 CRITERIA?

4 A. Yes. The brochure addresses all of the areas called
5 for in 10 CFR §50.47(b)(7) and 10 CFR Part 50,
6 Appendix E, Part D.2 and NUREG-0654, Rev. 1 Part G.1.
7 (RMG)

8 Q. WHAT DETERMINED THE ORDER IN WHICH THE INFORMATION IN
9 THE BROCHURE APPEARS? FOR EXAMPLE, WHY ARE THE
10 EVACUATION INFORMATION AND SHELTERING LOCATIONS
11 ASSIGNED TO THE BACK OF THE BROCHURE INSTEAD OF THE
12 FRONT?

13 A. Preliminary information on the operation of a nuclear
14 station, facts about radiation, and definitions of
15 nuclear terms were placed in the front of the
16 brochure to aid the reader in understanding the
17 importance of emergency planning and protective
18 actions. In addition, the brochure was intentionally
19 designed to make it easy for the reader to turn
20 quickly to any area of the brochure by the use of
21 descriptive tabs with labels such as, "Emergency and
22 You," "Evacuation Procedures," and "Protective Action
23 Zones and Maps." (PFC)

24 Q. DOES THE BROCHURE CONTAIN INFORMATION IN ADDITION TO
25 THAT REQUIRED BY NRC REGULATIONS?

1 A. Yes. It contains information included as a result of
2 comments by state and county agencies and by
3 intervenors CESC and Palmetto Alliance to improve the
4 brochure as an informational tool. Each year, the
5 brochure will be revised to include new information,
6 to improve it based on comments from various groups
7 involved in emergency planning, and to correct the
8 brochure based on any changes in the concept or
9 extent of planning. An updated version of the
10 brochure is planned for September 30, 1984. The new
11 brochure will then be mailed to all EPZ residents.

12 (RMG)

13 Q. WHAT ADDITIONS ARE CURRENTLY CONTEMPLATED FOR THE
14 REVISION OF THE BROCHURE?

15 A. Additional information related to shelters
16 established for York and Gaston County residents will
17 be included. One shelter, Mount Holly Jr. High, is
18 to be added to the list for Gaston County residents.
19 In York County, Bethany ARP Church, Bethany
20 Elementary School, Sharon Elementary School, and
21 Hickory Grove School have been evaluated by state
22 planners and found to be inadequate as long-term
23 shelters, as no showers were available. They are to
24 be replaced by other facilities outside York County
25 as shelters for Zone A-O. These changes, along with
26 improvements to the map and tabular listing of zones,

1 evacuation routes and shelters, NRC and state/county
2 comments will be incorporated into an updated version
3 of the brochure and distributed as described
4 previously. (RMG)

5 Q. ARE THESE REVISIONS NECESSARY TO COMPLY WITH NRC
6 REGULATIONS?

7 A. No. They are being added simply to improve the
8 brochure as an informational tool and to revise
9 shelter listings as previously noted. The current
10 brochure complies with the regulations. (RMG)

11 Q. INTERVENORS STATE THAT "A SIGNIFICANT BODY OF
12 SCIENTIFIC EVIDENCE THAT INDICATES HEALTH EFFECTS AT
13 VERY LOW LOW LEVELS OF RADIATION IS NOT CITED." IS
14 THIS STATEMENT ACCURATE?

15 A. No. There is not a significant body of such
16 evidence. (MLB) In addition, even if such
17 information did exist, NRC regulations do not require
18 the inclusion of such information in the brochure.
19 (RMG)

20 Q. INTERVENORS STATE THAT "PEOPLE WITH COMPELLING
21 REASONS TO STAY (SUCH AS FARMERS TENDING TO
22 LIVESTOCK) MAY NOT TAKE THE THREAT SERIOUSLY,
23 ESPECIALLY AFTER BEING REPEATEDLY TOLD IN THE PAST
24 THAT RADIATION IS NOT PARTICULARLY HARMFUL, AND THAT
25 A SERIOUS ACCIDENT IS EXTREMELY UNLIKELY." DO YOU
26 AGREE WITH THIS STATEMENT?

1 A. No. The brochure clearly states that radiation is
2 harmful and then gives instruction as to what to do
3 in the event of an emergency. Nor does the brochure
4 hide the possibility of an emergency at Catawba. On
5 page 4 of the brochure it states: "If there were a
6 major emergency at Catawba, people in areas near the
7 plant could be exposed to high levels of radiation.
8 Exposure to high levels of radiation causes health
9 effects." Instructions are then given on page 4 as
10 to what steps to take if radiation were released.
11 Additional information is given on page 9 of the
12 brochure. (PFC)

13 Q. INTERVENORS STATE THAT THE BROCHURE "DOES NOT
14 INDICATE THAT THERE IS A DANGER IN ACCUMULATED
15 RADIATION DOSAGE." IS THIS ACCURATE?

16 A. No. The brochure addresses this issue by advising
17 the public on pages 4, 9, 10 and 11 to take shelter
18 or evacuate. When taking shelter, the public is
19 further advised as to what additional steps to take
20 for protection. (PFC, MLB)

21 Q. INTERVENORS STATE THAT THE BROCHURE "DOES NOT GIVE
22 ADEQUATE INFORMATION ON PROTECTION FROM BETA AND
23 GAMMA RAYS." IS THIS CORRECT?

24 A. No, the brochure adequately addresses these issues.
25 To reduce radiation doses resulting from external
26 exposures to noble gases, you can decrease the time

1 spent near (or in) the source, increase your distance
2 from the source, and increase the attenuation of
3 these rays by passage of the rays through increased
4 thicknesses of material. The brochure adequately
5 addresses these dose reduction methods. The brochure
6 addresses decreasing the time spent near the source
7 (noble gases) by recommending evacuation, and, if
8 evacuation is not feasible, by minimizing the time
9 out of doors. The brochure addresses increasing your
10 distance from the source by recommending either
11 evacuation or, if evacuation is not feasible, you
12 remain indoors, close all windows and doors, and turn
13 off ventilation systems to keep the noble gases
14 outside. It also suggests moving to the basement, if
15 possible, to increase your distance from the source.
16 The brochure addresses increasing attenuation by
17 recommending you remain indoors and move to the
18 basement, if possible. (MLB)

19 Q. INTERVENORS STATE THAT THE BROCHURE "DOES NOT SPECIFY
20 HOW YOUNG VERY YOUNG IS." IS THIS CORRECT?

21 A. No. Page 4 of the brochure has been revised to read
22 "(u)nborn babies and children up to six years old are
23 more likely to be harmed by radiation." (PFC)

24 Q. INTERVENORS STATE THAT THE BROCHURE DOES NOT CONTAIN
25 A "CHART TO INDICATE OVEREXPOSURE DURING NON-ROUTINE
26 RELEASES OR ACCIDENTS TO PUT INTO PERSPECTIVE THE

1 POSSIBLE DOSE RECEIVED BEFORE OR DURING AN
2 EVACUATION." WHY DOES THE BROCHURE NOT CONTAIN SUCH
3 A CHART?

4 A. First, the NRC regulations do not require such a
5 chart. (RMG) Second, the composition of such a chart
6 would be voluminous due to the number of scenarios
7 that would need to be covered. (MLB) Finally, the
8 brochure contains adequate information concerning
9 radiation levels on page 2. (PFC)

10 Q. INTERVENORS STATE THAT THE BROCHURE "DOES NOT SPECIFY
11 INGESTION DANGERS FROM CONTAMINATED FOOD AND WATER."
12 IS THIS ACCURATE?

13 A. No. Page 9 of the revised brochure states that
14 "(w)ater, milk and food supplies will be monitored
15 for potential contamination. The emergency broadcast
16 stations will notify the public of any actions to be
17 taken in regard to food and water." (PFC)

18 Q. INTERVENORS STATE THAT THE BROCHURE "DOES NOT SPECIFY
19 THE IMPORTANCE OF GETTING TO RECEPTION AREAS FOR
20 REGISTRATION FOR PURPOSES OF NOTIFICATION FOR
21 EVACUEES' RE-ENTRY TO THEIR HOMES, NOR OF EMERGENCY
22 NOTIFICATION FOR EVACUEES, ACCOUNTING FOR FISCAL
23 ASPECTS OF EVACUATION AND FOR THE BASIS OF
24 ESTABLISHING LEGAL CLAIMS WHICH MIGHT RESULT FROM THE

1 EVACUATION, AS SPECIFIED IN 'CATAWBA SITE SPECIFIC
2 NUREG CRITERIA' p. B2, #3." IS THIS STATEMENT
3 ACCURATE?

4 A. No. The revised brochure does contain such
5 information. On page 10 of the brochure, the public
6 is advised to "(d)rive to your shelter and register."
7 The public is further advised on page 10 that
8 "(r)egistering at the shelter will enable officials
9 to contact you to tell you when you can go back home"
10 and that they "can also get information there while
11 away from home." With regard to fiscal aspects and
12 legal claims, the public is advised on page 10 that
13 "(r)epresentatives of organizations including Red
14 Cross, Salvation Army and insurance companies" would
15 be at shelters to provide services needed by the
16 public. (PFC) This information was added from an
17 earlier version to address concerns raised by the
18 intervenors even though NRC regulations do not
19 require it. NRC and FEMA guidelines focus on the
20 area of safety and not on subsequent legal aspects
21 following a possible event. (RMG)

22 Q. INTERVENORS STATE THAT CITIZENS ARE TOLD IN THE
23 BROCHURE THAT "THEY MAY GO DIRECTLY TO 'STAY WITH
24 FRIENDS OR RELATIVES LIVING AT LEAST 15 MILES FROM
25 THE PLANT.'" IS THIS AN ACCURATE STATEMENT?

1 A. No. Page 10 of the brochure states "Drive to your
2 shelter and register. You may stay at the shelter.
3 Or after you register at the shelter, you may choose
4 to stay with friends or relatives living at least 15
5 miles from the plant." This language clearly
6 indicates that affected persons should go to the
7 shelter first. (PFC)

8 Q. INTERVENORS STATE THAT THE BROCHURE DOES NOT SAY THAT
9 "THE RECEPTION AREAS EXIST TO PROVIDE DECONTAMINATION
10 OF PEOPLE AND VEHICLES." IS THIS CORRECT?

11 A. No. There are no longer any reception areas; rather,
12 evacuees will be instructed to go directly to
13 designated shelters. (RMG) Further, on page 9 of the
14 brochure it states: "Shelters would have facilities
15 for decontamination of evacuees and their vehicles
16 and their personal items." It is there that such
17 decontamination activities take place. This language
18 was added to the current version of the brochure.
19 (PFC)

20 Q. INTERVENORS ASSERT THAT THE BROCHURE STATES THAT "IN
21 AN EMERGENCY AT CATAWBA, CITIZENS 'WOULD BE GIVEN
22 PLENTY OF TIME TO TAKE NECESSARY ACTION.'"
23 INTERVENORS STATE FURTHER THAT THE BROCHURE "FALSELY
24 REASSURES" RESIDENTS BY INCLUDING THIS STATEMENT.
25 DOES THE BROCHURE INCLUDE THIS STATEMENT?

1 A. No. This statement was deleted from an earlier draft
2 and is not contained in the current brochure. Also,
3 no effort is made to "falsely reassure" residents.
4 Information in the brochure is directed at advising
5 the public to take necessary action in an emergency.
6 (PFC)

7 Q. INTERVENORS STATE THAT THE BROCHURE "ASSUMES ALL
8 RECIPIENTS CAN READ, AND AT A CERTAIN LEVEL OF
9 COMPREHENSION." INTERVENORS STATE FURTHER THAT "AS A
10 PRIMARY SOURCE OF INFORMATION IT IS IMPERATIVE THAT
11 ALL HAVE ACCESS TO AND UNDERSTANDING OF THE EMERGENCY
12 PROCEDURES TO BE TAKEN." PLEASE COMMENT ON THESE
13 STATEMENTS.

14 A. First, the brochure was designed and written so that
15 the general public could understand the emergency
16 procedures to be taken. Second, every effort was
17 made to ensure that the brochure was written in a
18 form and at a reading level that could be understood
19 by a broad segment of the public for whom it is
20 intended. (PFC)

21 Q. WHAT STEPS WERE TAKEN TO ENSURE READABILITY OF THE
22 BROCHURE BY THE PUBLIC?

23 A. The initial draft was submitted to a reading
24 specialist at Winthrop College for an assessment of
25 the reading level. The initial draft was determined
26 to be at approximately a college level. Based on the

1 directions provided by the reading specialist, the
2 copy was changed in an effort to lower the reading
3 level. (PFC, SVD)

4 Q. PLEASE DESCRIBE MORE FULLY WHAT CHANGES WERE
5 INCORPORATED IN THE FINAL VERSION OF THE 1984 EDITION
6 OF THE BROCHURE TO ENSURE ITS READABILITY BY THE
7 PUBLIC.

8 A. Duke was advised by the reading specialist that parts
9 of the copy were verbose and too complex.

10 The material was rewritten to be approximately
11 4-6 sentences in length per one hundred words and to
12 have an average of 140-160 syllables per one hundred
13 words.

14 Technical information in areas such as "How a
15 nuclear plant works," and "About Radiation," was
16 rewritten to make the information more
17 understandable. (PFC)

18 Q. FOR WHAT LEVEL OF READER IS THE 1984 EDITION OF THE
19 BROCHURE SUITABLE?

20 A. The 1984 edition of the brochure is suitable for
21 readers of many levels. By applying the Fry
22 Readability Formula to assess the brochure, variable
23 reading levels are obtained. Specifically, narrative
24 portions (i.e., those outlining plant operation and
25 giving information concerning radiation on pages 2
26 and 4) are written on an eleventh grade level.

1 Instructional sequences (i.e., step-by-step
2 evacuation procedures on pages 9, 10 and 11) are
3 written on a seventh grade reading level and are most
4 appropriate for the average reader. (SVD)

5 Q. WHAT OTHER STEPS ARE SUGGESTED FOR COMMUNICATING
6 INFORMATION IN THE BROCHURE TO RESIDENTS IN THE AREA
7 WHO CANNOT READ OR MAY NOT HAVE IMMEDIATE ACCESS TO A
8 BROCHURE?

9 A. Page 1 of the brochure states: "If you know someone
10 who is blind or who does not read well, read this
11 information to them. Talk to them about what to do
12 in an emergency." (PFC) In addition, state and local
13 officials have been asked to include the six steps
14 shown on page 9 in their EBS broadcast. (RMG)

15 Q. INTERVENORS STATE THAT "(T)HERE IS NO INFORMATION
16 CONCERNING THE EXISTENCE OF A 'PLUME EXPOSURE
17 PATHWAY' WHICH WOULD INFLUENCE A CITIZEN'S CHOICE OF
18 ESCAPE ROUTE" AND THAT "IT IS IMPORTANT FOR CITIZENS
19 TO BE AWARE OF THIS PHENOMENON BEFOREHAND." WHY IS
20 THIS INFORMATION NOT INCLUDED IN THE BROCHURE?

21 A. First, the NRC regulations do not require that such
22 information be included in the brochure. Second,
23 there is concern that public confusion may arise if
24 an attempt is made to provide general information
25 concerning plume pathways, and that the public may

1 then not follow the recommended actions in the EBS
2 messages which are based on the specific conditions
3 at the time of the emergency. (RMG)

4 Q. WHAT INFORMATION IS INCLUDED IN THE BROCHURE WITH
5 REGARD TO SHELTERING?

6 A. Two types of information are included in the brochure
7 with regard to sheltering. First, on page 9 of the
8 brochure, the readers are directed to take the
9 following six steps if they are told to stay indoors
10 during an emergency:

- 11 "1. Stay indoors until you are told it is safe to go
12 out.
- 13 2. Close all windows and doors. Turn off fans, air
14 conditioners and forced-air heating units.
- 15 3. Move to a basement if possible.
- 16 4. Place a damp cloth over your nose and mouth.
- 17 5. Listen to your local radio or television station
18 for more instructions.
- 19 6. Water, milk and food supplies will be monitored
20 for potential contamination. The emergency
21 broadcast stations will notify the public of any
22 actions to be taken in regard to food and
23 water."

1 Second, if ordered to evacuate, readers are told on
2 page 10 as follows: "Get into your car or other
3 vehicle. Close all windows and vents. Drive to your
4 shelter and register." (PFC)

5 Q. WHAT IS THE BASIS FOR INCLUDING THESE 6 STEPS IN THE
6 BROCHURE?

7 A. EPA-520/1-75-001, "Manual of Protective Action Guides
8 and Protective Actions for Nuclear Incidents,"
9 Environmental Protection Agency, 1975 (and subsequent
10 revisions and editions) recommends actions such as
11 staying in the basement, closing windows and doors,
12 turning off ventilation systems which draw in inside
13 air, and breathing through a damp cloth. The other
14 points are practical comments believed by Duke Power
15 Company to provide more effective sheltering. (RMG)

16 Q. WHAT OTHER STEPS HAS DUKE TAKEN TO ENSURE PUBLICATION
17 OF SHELTERING INFORMATION?

18 A. In a letter dated January 23, 1984, to each State
19 Director, Duke has requested that the six items on
20 page 9 of the brochure be made a part of their pre-
21 established message format for sheltering. It is my
22 understanding that each state will include this
23 information in pre-established messages. (RMG)

24 Q. DOES THE SHELTERING INFORMATION MEET NRC CRITERIA?

25 A. Yes. (RMG)

1 Q. ARE YOU SATISFIED THAT THE REVISED BROCHURE FOR
2 DISTRIBUTION TO THE PUBLIC ADEQUATELY ADDRESSES THE
3 MATTERS OF PREPARATIONS TO BE TAKEN BY THE PUBLIC "TO
4 ACHIEVE EFFECTIVE SHELTERING" AND "THE ACTIONS THAT
5 PEOPLE SHOULD TAKE WHEN ADVISED TO SEEK SHELTER?"

6 A. Yes, the instructions provided in the brochure are
7 adequate for the public to achieve effective
8 sheltering. (MLB)

9 Q. BRIEFLY EXPLAIN YOUR RESPONSE.

10 A. There are two factors which are important when using
11 sheltering as a protective measure to reduce
12 potential doses. First, the shelter should provide
13 some attenuation of radiation emitted from
14 contamination outside the shelter. This attenuation
15 effect is called shielding. The second factor would
16 be the need to minimize the amount of contamination
17 leaking into the shelter. This is minimization of
18 infiltration. The brochure adequately addresses both
19 factors. With regard to shielding, the brochure
20 states on page 9: "Stay indoors until you are told it
21 is safe to go outside." It further states: "Move to
22 a basement if possible." These instructions describe
23 the methods that should be used to achieve shielding
24 from the radiation originating from contamination
25 outside the shelter.

1 As a method to reduce infiltration, the brochure
2 advises on page 9 as follows: "Close all windows and
3 doors. Turn off fans, air conditioners and forced-
4 air heating units." These instructions are measures
5 that would effectively reduce infiltration of
6 contaminated air.

7 The measures listed on page 9 of the brochure
8 are general practices that would be effective for any
9 situation where sheltering is necessary. The
10 brochure also states on page 9: "Listen to your local
11 radio or television station for more instructions."
12 This addresses the need for additional instruction
13 which would not be appropriate in all cases.

14 In addition to the general practices of
15 shielding, reduction of infiltration and listening
16 for additional information, instructions 4 and 6 on
17 page 9 are measures that would be recommended if
18 particulates are released. These instructions would
19 be useful in reducing inhalation and ingestion of
20 contaminates if they are present. (MLB)

21 Q. WHAT READING LEVEL IS THE INFORMATION ON SHELTERING?

22 A. The instructional information on pages 9 and 10 is on
23 the 7th grade level. (SVD)

1 TESTIMONY OF THE STATE OF NORTH CAROLINA
2 (J.T. PUGH, III) ON
3 EMERGENCY PLANNING CONTENTIONS 1 AND 7

4 Background Information

5 Q. PLEASE STATE YOUR NAME AND BUSINESS ADDRESS.

6 A. J.T. Pugh, North Carolina Division of Emergency
7 Management, Administration Building, 116 West Jones
8 Street, Raleigh, North Carolina 27611.

9 Q. PLEASE SUMMARIZE YOUR EDUCATIONAL BACKGROUND AND
10 RELEVANT EMPLOYMENT HISTORY AND EXPERIENCE.

11 A. I have attached a Statement of Qualifications to this
12 testimony. It is marked as Attachment A. (JTP)

13 Q. WHAT IS YOUR EMERGENCY RESPONSE BACKGROUND?

14 A. I have been in the emergency response business for
15 six years. I was Area Coordinator for one year,
16 Assistant Director in Raleigh for one year, Deputy
17 Director for two years and Director for two years.
18 (JTP)

19 Q. HAVE YOU BEEN INVOLVED IN ANY EMERGENCY RESPONSE
20 ACTIVITIES DURING THOSE YEARS?

21 A. Yes. I have been involved in numerous response
22 activities including: flooding in Surry County;
23 tornadoes in 14 counties; a chemical fire in
24 Hazelwood, N.C.; a chemical explosion in Rowan
25 County; and PCB cleanup. My office handles
26 approximately 400 instances a year. (JTP)

27 Q. HAVE YOU BEEN INVOLVED IN EVACUATIONS?

- 1 A. Yes. (JTP)
- 2 Q. SHELTERING?
- 3 A. Yes. (JTP)
- 4 Q. ASSURING PROVISION OF CLOTHING AND BEDDING?
- 5 A. Yes. (JTP)
- 6 Q. DECONTAMINATION?
- 7 A. We have been trained in this area. (JTP)
- 8 Q. HAVE YOU REVIEWED NUCLEAR EMERGENCY BROCHURES?
- 9 A. Yes. (JTP)
- 10 Q. HAVE YOU SEEN BROCHURES ON OTHER TYPES OF
- 11 EMERGENCIES, i.e., TORNADOES?
- 12 A. We have seen them and helped to develop them. (JTP)
- 13 Q. ARE YOU FAMILIAR WITH BROCHURES DEALING WITH NUCLEAR
- 14 ATTACK?
- 15 A. We have seen the brochures prepared by the federal
- 16 government. (JTP)
- 17 Q. PLEASE SUMMARIZE YOUR OCCUPATIONAL DUTIES.
- 18 A. I am responsible for emergency response and
- 19 preparedness for the State of North Carolina. My
- 20 responsibility is to determine if the counties can
- 21 handle the emergency, and to get the State to the
- 22 scene if necessary. The Division of Emergency
- 23 Management has 50 employees. The emergency response
- 24 team that I handle is composed of all available
- 25 resources of the State government. (JTP)

1 Q. BY WAY OF BACKGROUND, PLEASE DESCRIBE THE OVERALL
2 OBLIGATION OF THE STATE OF NORTH CAROLINA AS IT
3 RELATES TO EMERGENCY PLANNING FOR A POSSIBLE
4 RADIOLOGICAL EMERGENCY AT THE CATAWBA NUCLEAR
5 STATION.

6 A. The three components of the North Carolina obligation
7 to respond to a possible radiological emergency at
8 Catawba are: (1) planning, (2) preparedness, and (3)
9 recovery and response. The State obligation to
10 assure the adequacy of these components is for the
11 protection of life and property for the citizens of
12 North Carolina. (JTP)

13 Q. HAS THE STATE OF NORTH CAROLINA DEVELOPED A PLAN TO
14 COPE WITH A NUCLEAR-RELATED EMERGENCY AT CATAWBA?

15 A. Yes, the North Carolina Emergency Response Plan.
16 (JTP)

17 Q. ARE YOU THE NORTH CAROLINA OFFICIAL RESPONSIBLE FOR
18 THE PLAN?

19 A. Yes. (JTP)

20 Q. WOULD YOU BRIEFLY DESCRIBE THE PLAN?

21 A. The plan is a three-part document which consists of
22 State procedures, Mecklenburg County procedures, and
23 Gaston County procedures. The plan provides the
24 overall framework for State and local response to a
25 possible radiological emergency at Catawba. The
26 counties are the initial responders until such time

1 as the governor declares a state of emergency or
2 disaster. Direction and control of recovery and
3 response are in the hands of the State once the State
4 has set up its SERT with support thereafter provided
5 by the counties involved. (JTP)

6 Q. DESCRIBE BRIEFLY YOUR ROLE IN OVERSEEING THE
7 READINESS OF THE VARIOUS STATE AND COUNTY DEPARTMENTS
8 AND AGENCIES THAT ARE INVOLVED IN RADIOLOGICAL
9 EMERGENCY RESPONSE IN NORTH CAROLINA.

10 A. The North Carolina Emergency Management Division is
11 involved in assuring the readiness of State and local
12 response to a radiological emergency in a number of
13 ways. We have been actively involved in developing
14 the plans for responding to a possible radiological
15 emergency and have subjected the plans to an actual
16 test through an emergency drill. These drills are
17 expected to be repeated on a regular basis. In
18 addition, we have provided training on request for
19 State agencies as well as County personnel involved.
20 (JTP)

21 Q. IN YOUR OPINION DOES THE PLAN PROVIDE REASONABLE
22 ASSURANCE THAT MEMBERS OF THE PUBLIC WILL BE
23 ADEQUATELY PROTECTED IN THE EVENT OF A RADIOLOGICAL
24 EMERGENCY AT THE CATAWBA PLANT?

25 A. Yes. (JTP)

1 Q. HAVE YOU READ THE CESG/PALMETTO ALLIANCE EMERGENCY
2 PLANNING CONTENTIONS WHICH HAVE BEEN ADMITTED AS
3 ISSUES BY THE ATOMIC SAFETY AND LICENSING BOARD?

4 A. Yes. I am testifying on behalf of the State of North
5 Carolina to address the issues raised by these
6 contentions of which I have knowledge. (JTP)

7 EPC 1 and 7 Testimony

8 Q. DOES THE NORTH CAROLINA STATE PLAN PROVIDE
9 INFORMATION RELATED TO CONTENTION 1?

10 A. Yes. Part 1, Sections IV.D and IV.E of the N.C.
11 State Plan and Annex D to that plan.

12 Q. IS IT A GOAL OF STATE AND LOCAL PLANNING FOR
13 RADIOLOGICAL EMERGENCIES INVOLVING NUCLEAR POWER
14 PLANTS THAT ADVANCE INFORMATION BE PROVIDED TO
15 MEMBERS OF THE PUBLIC IN THE AREA SURROUNDING THE
16 NUCLEAR POWER PLANT?

17 A. Yes. (JTP)

18 Q. WHAT IS THE PURPOSE OF PROVIDING SUCH INFORMATION?

19 A. To provide the public with information on the basic
20 dangers of radiation, to provide adequate information
21 on how to implement protective actions for individual
22 protection in case of a nuclear accident, and/or to
23 evacuate safely the threatened area. (JTP)

24 Q. WHAT GROUPS SHOULD RECEIVE SUCH INFORMATION?

25 A. All individuals living within the Emergency Planning
26 Zone (EPZ) of a nuclear power plant. (JTP)

27 Q. WHAT INFORMATION HAS THE STATE ITSELF DISTRIBUTED?

- 1 A. The state plan provides for information of an
2 educational nature; however, this agency has not been
3 able fully to implement this program. We are
4 currently in the process of hiring a full-time public
5 information officer. Once this individual is on
6 board there should be a greater flow of information.
7 The state presently publishes a Disaster Brochure on
8 common threats, i.e., hurricanes, tornadoes, floods,
9 nuclear power plant accidents, etc. (JTP)
- 10 Q. IN YOUR JUDGMENT, IS THAT INFORMATION ADEQUATE?
- 11 A. Yes, considering the limited public demand for this
12 type of information and our limited time available to
13 produce or provide any larger contribution. However,
14 with the addition of the public information officer,
15 we hope to make more information available to the
16 public by all means of communications. (JTP)
- 17 Q. INTERVENORS STATE THAT "ALTHOUGH THE NORTH CAROLINA
18 STATE PLAN CALLS FOR EMERGENCY INFORMATION TO BE
19 DISTRIBUTED AS DETAILED IN PART 1, SECTION IV, 2, 3,
20 and 4, NO SUCH MATERIAL OTHER THAN APPLICANTS'
21 BROCHURE HAS BEEN MADE AVAILABLE." DO YOU AGREE WITH
22 THIS STATEMENT?
- 23 A. Yes, insofar as it goes. However, one of the options
24 of the North Carolina emergency plan is that the
25 State may opt to rely on Duke's Emergency Plan

1 brochure rather than to distribute one of its own.
2 The State of North Carolina has elected to adopt that
3 option. (JTP)

4 Q. PLEASE DESCRIBE YOUR ROLE IN THE PREPARATION OF
5 DUKE'S EMERGENCY PLAN BROCHURE.

6 A. I reviewed early drafts of the brochure and suggested
7 changes to be incorporated in the current 1984
8 edition. I then reviewed the current 1984 edition.
9 (JTP)

10 Q. DO YOU FIND THE REVISED BROCHURE ACCEPTABLE FOR THE
11 PURPOSE OF ADVISING THE PUBLIC OF AN EMERGENCY AT
12 CATAWBA?

13 A. Yes. (JTP)

14 Q. HAVE YOU ANY ADDITIONAL SUGGESTIONS THAT YOU WOULD
15 INCORPORATE IN THE NEXT VERSION OF THE BROCHURE?

16 A. Yes. The necessity for going directly to shelters is
17 not adequately stressed under paragraph number 5
18 entitled, "If you are ordered to evacuate." Also,
19 the availability of radiological monitoring and
20 decontamination is not covered in this important
21 paragraph. The addition of this information in
22 paragraph 5 would strengthen the need for going
23 directly to a shelter. (JTP)

24 It is recognized that the brochure does state
25 that facilities for decontamination of evacuees are
26 available. This information, however, is located

1 later on in the brochure and not at the critical
2 place as mentioned above. The public must be
3 convinced that they should report to the shelters to
4 be registered and monitored for radiological
5 contamination and their emergency address recorded
6 for regrouping families. The possibility of a
7 contaminated individual exposing other family members
8 should be stressed. We believe these changes should
9 be included in the next edition of the emergency plan
10 brochure. (JTP)

11 Q. DO YOU FEEL THAT THE FAILURE TO INCLUDE THIS
12 INFORMATION IN THE CURRENT EDITION OF THE BROCHURE
13 AFFECTS THE ADEQUACY OF THE CURRENT BROCHURE?

14 A. No. The State of North Carolina is satisfied that
15 the 1984 edition of the brochure in its current form
16 is adequate to advise the public. (JTP)

17 Q. ARE YOU SATISFIED THAT DUKE'S REVISED BROCHURE FOR
18 DISTRIBUTION TO THE PUBLIC ADEQUATELY ADDRESSES THE
19 MATTERS OF PREPARATION TO BE TAKEN BY THE PUBLIC "TO
20 ACHIEVE EFFECTIVE SHELTERING" AND "THE ACTIONS THAT
21 PEOPLE SHOULD TAKE WHEN ADVISED TO SEEK SHELTER"?

22 A. Yes. The six sheltering steps described in the Duke
23 Power Brochure are similar to those advanced by
24 knowledgeable Emergency Management officials. State
25 emergency planning officials have been so trained.

1 Sheltering in this case refers to people staying
2 inside their own homes rather than going to a
3 "shelter" outside the EPZ. (JTP)

4 Q. DUKE HAS STATED IN ITS TESTIMONY THAT IT HAS
5 REQUESTED THAT THE STATE INCLUDE AS PART OF ITS EBS
6 PROGRAM THE SIX ITEMS LISTED ON PAGE 9 OF THE
7 BROCHURE. WILL THE STATE INCLUDE SUCH INFORMATION?

8 A. Yes. (JTP)

1 TESTIMONY OF THE STATE OF SOUTH CAROLINA
2 (P.R. LUNSFORD, W.M. MCSWAIN, AND S.L. FINKLEA, III)
3 ON EMERGENCY PLANNING CONTENTIONS 1 AND 7

4 Background Information on Messrs. Lunsford and McSwain

5 Q. PLEASE STATE YOUR NAME AND BUSINESS ADDRESS.

6 A. Paul Lunsford, 1429 Senate Street, Columbia, S.C.
7 29201.

8 Bill Mc Swain, 1429 Senate Street, Columbia, S.C.
9 29201.

10 Q. PLEASE STATE YOUR PRESENT JOB TITLE AND DESCRIBE THE
11 NATURE OF YOUR JOB, MR. LUNSFORD.

12 A. I am a Chief Area Coordinator of the Emergency
13 Preparedness Division for the State of South
14 Carolina. I have jurisdiction over twenty-three of
15 the State's forty-six counties for emergency response
16 planning. These counties include those containing
17 and adjoining the Catawba Nuclear Station. I am
18 responsible for initiation, distribution, and
19 maintenance of state plans that pertain to that area,
20 and for furnishing support and development of county
21 emergency response plans as a liaison for county
22 emergency preparedness directors in those areas. (PL)

23 Q. HOW LONG HAVE YOU BEEN IN THAT POSITION, MR.
24 LUNSFORD?

1 A. There was a title change about one year ago. Prior
2 to that I was Chief of the Plans Section in the
3 Emergency Preparedness Division. Prior to that,
4 three and one-half years ago, I joined the Emergency
5 Preparedness Division and worked with the
6 coordinator. I had that position for a couple of
7 years. Then I moved in as the Chief of Plans
8 Section. My resume is attached to this testimony.
9 (PL)

10 Q. DOES THE STATE OF SOUTH CAROLINA HAVE A SPECIFIC
11 EMERGENCY PLAN TO COPE WITH A RADIOLOGICAL EMERGENCY
12 AT CATAWBA?

13 A. Yes. It is the Catawba Site Specific Plan. (PL)

14 Q. WOULD YOU BRIEFLY DESCRIBE THE CONTENT OF THE SITE
15 SPECIFIC PLAN AND HOW IT OPERATES?

16 A. The Emergency Plans in South Carolina for Catawba
17 include SCORERP (South Carolina Operational
18 Radiological Emergency Response Plan), STRERP (State
19 of South Carolina Technical Radiological Emergency
20 Response Plan), Part IV of SCORERP (Catawba Site
21 Specific Plan), and the York County Emergency
22 Operations Plan. SCORERP and STRERP are generic to
23 the State. (WM)

24 SCORERP was developed by the South Carolina
25 Emergency Preparedness Division in cooperation with
26 other State agencies to provide for the guidance,

1 coordination, and utilization of State and other
2 resources in support of affected local governments'
3 off-site operations during an emergency resulting
4 from a radiological incident at a fixed nuclear
5 facility in the State of South Carolina or contiguous
6 states. (WM)

7 STRERP was developed by the Bureau of
8 Radiological Health in the South Carolina Department
9 of Health and Environmental Control to provide for
10 the guidance, coordination, and utilization of the
11 technical radiological emergency response and
12 assistance from the State of South Carolina to
13 affected local governments during an emergency
14 resulting from a radiological emergency in South
15 Carolina or contiguous states. This plan is in
16 accordance with SCORERP and is a supporting document.
17 (WM)

18 I and others in this office were involved in
19 developing the Site-Specific Plan and assisted in
20 developing the York County Plan. To develop the
21 Catawba Site-Specific Plan, we used the other site
22 specifics as a guide and took site specific
23 information for Catawba such as differences in alert
24 and notification and sheltering. The other plans
25 upon which Catawba's were developed were different

1 with respect to the aspect of using shelters instead
2 of a reception center concept. We took the site-
3 specific information and went from there. (WM)

4 The Site - Specific Plan is broken down into a
5 general purpose statement, goes into local situations
6 and assumptions, and then goes into the concept of
7 operations, which is broken down then into emergency
8 response as far as alert and notification, activation
9 of the SEOC and FEOC, radiological monitoring,
10 evacuation, transportation, communication, and
11 training. Emergency response as to direction and
12 control is then described (relating to FEOC
13 operations), and last are the figures, including maps
14 and organizational charts. (WM)

15 Q. IS THERE A PLANNING BASIS FOR THIS DOCUMENT?

16 A. Yes there is. It is NUREG-0654, Rev. 1. (PL)

17 Q. IN YOUR OPINION DOES THE PLAN PROVIDE REASONABLE
18 ASSURANCE THAT MEMBERS OF THE PUBLIC WILL BE
19 ADEQUATELY PROTECTED IN THE EVENT OF A RADIOLOGICAL
20 EMERGENCY AT CATAWBA?

21 A. Yes it does. (PL)

22 Q. IN GENERAL TERMS, HOW DOES THE PLAN WORK IN AN
23 EMERGENCY SITUATION?

24 A. Once we receive the notification of the emergency,
25 the South Carolina radiological emergency response
26 plan is put into effect. The State government goes

1 on alert, the county government goes on alert and of
2 course, the plan is then implemented. There are
3 certain actions that have to be taken by the
4 facility, by the State, and by the local government.
5 These actions are spelled out in the emergency action
6 levels that are contained in the county plan and the
7 State plan. See York County Plan Annex Q and Table
8 IV of SCORERP. The particular emergency action level
9 that we are in determines whether it requires the
10 deployment of State and local forces. (PL)

11 The emergency response will be as set forth in
12 the South Carolina plan and the county plans. The
13 agencies and individuals that are listed in those
14 plans have been made aware that they are part of the
15 plan. Certain state agencies have certain
16 responsibilities in the plan, as do the county
17 organizations and government agencies. The level of
18 emergency dictates the necessary actions to be taken.
19 (PL)

20 Q. DOES THIS SITE-SPECIFIC PLAN DEAL WITH THE ACTIVITIES
21 OF THE SOUTH CAROLINA EMERGENCY RESPONSE ORGANIZATION
22 RATHER THAN DEALING WITH THE RESPONSE OF YORK COUNTY?

23 A. Yes. (PL)

24 Q. MR. LUNSFORD, WITH RESPECT TO THE DEVELOPMENT OF THE
25 STATE EMERGENCY PLAN FOR CATAWBA, WOULD YOU EXPLAIN
26 YOUR ROLE IN THIS EFFORT?

1 A. I reviewed all of the concepts and furnished some of
2 them. I reviewed the plans that were being
3 developed, managed the effort and assigned additional
4 people to the task. I read the plans in their draft
5 stages, and met with planners on almost a daily
6 basis. If I had comments, I would share those with
7 the planners and they would be factored into the
8 plan. Most of my comments were made in writing on
9 the draft plan itself. (PL)

10 Q. PLEASE DESCRIBE YOUR EMERGENCY PLANNING BACKGROUND,
11 MR. LUNSFORD.

12 A. I have a former career in the United States Army as
13 an officer in the Infantry, as is described on my
14 attached resume. I have been with the South Carolina
15 Emergency Preparedness Division for three and one-
16 half years. During those three and one-half years
17 here, I have been directly involved with emergency
18 planning. (PL)

19 Q. HAVE YOU BEEN INVOLVED IN ANY EMERGENCIES WHERE
20 NOTIFICATION HAS BEEN GIVEN TO THE PUBLIC?

21 A. Yes, during the recent tornados. I have also been
22 involved in nuclear power plant emergency exercises.
23 (PL)

24 Q. HAVE YOU BEEN INVOLVED IN ANY EVACUATIONS?

25 A. Yes, at the same time. (PL)

26 Q. HAVE YOU BEEN INVOLVED IN ANY SHELTERING ACTIVITY?

- 1 A. Yes. (PL)
- 2 Q. HAVE YOU BEEN INVOLVED IN ANY DECONTAMINATION
3 ACTIVITY?
- 4 A. Not recently. I had biological and radiological
5 decontamination training as part of routine training
6 in the Army. (PL)
- 7 Q. HAVE YOU SEEN DOCUMENTS WHICH GIVE INSTRUCTIONS TO
8 THE PUBLIC ON HOW TO REACT IN EMERGENCY SITUATIONS?
- 9 A. Yes. I have seen numerous documents in the routine
10 reading and studies that we do here. I have seen
11 brochures for each one of the nuclear power
12 generation stations here in the State of South
13 Carolina. They all fall in my sphere of supervision.
14 (PL)
- 15 Q. HAVE YOU RECEIVED TRAINING WITH RESPECT TO ACTIONS TO
16 BE TAKEN IN THE EVENT OF A NUCLEAR ATTACK?
- 17 A. Yes. I was qualified as a Nuclear Weapons Employment
18 Officer in the Army and I subsequently had three
19 refresher courses, so I am still somewhat familiar
20 with that. (PL)
- 21 Q. HAVE YOU BEEN INVOLVED WITH EMERGENCY PLANS FOR OTHER
22 NUCLEAR PLANTS IN SOUTH CAROLINA?
- 23 A. Yes. All of them. There are four nuclear facilities
24 in South Carolina and this is the fourth set of plans
25 that we have developed. (PL)
- 26 Q. MR. MCSWAIN, PLEASE DESCRIBE YOUR CURRENT POSITION.

1 A. I am now the Exercise Training Officer for the State
2 of South Carolina. Prior to that I was the Area Two
3 Coordinator, which included five counties in South
4 Carolina, of which York County was one. I, along
5 with other staff members of the Development Committee
6 for the York County plan, developed the Site Specific
7 Plan for Catawba. I have had approximately seven
8 years of emergency planning experience. My resume is
9 attached. (WM)

10 Q. HOW MUCH TIME WAS DEVOTED TO THE DEVELOPMENT OF THE
11 CATAWBA PLAN, MR. MCSWAIN?

12 A. Approximately one and one-half years of my own time.
13 (WM)

14 Q. TO WHOM DID YOU REPORT WITH RESPECT TO THAT PLAN?

15 A. Initially to Mr. Tom Beckham, who was Chief of Plans.
16 After the reorganization, I reported to Mr. Lunsford.
17 (WM)

18 Q. MR. MCSWAIN, HOW LONG HAVE YOU BEEN INVOLVED IN
19 EMERGENCY PLANNING?

20 A. Approximately seven years. I have been involved in
21 emergencies where public notification was given. I
22 have also been involved in evacuation exercises. (WM)

23 Q. HAVE YOU BEEN INVOLVED IN ANY SHELTERING ACTIVITIES?

24 A. Yes. Many. (WM)

25 Q. HAVE YOU BEEN INVOLVED IN ANY DECONTAMINATION
26 ACTIVITIES?

1 A. Yes. I am a Disaster Preparedness Specialist with
2 the South Carolina Air National Guard and we go
3 through training annually at an Air Guard Training
4 Site. On a monthly basis I am involved in training
5 Air Guard Staff in disaster preparedness activities.
6 That training includes decontamination response. I
7 have seen or reviewed documents concerning the
8 response that members of the public should take in an
9 emergency. Additionally, I have received training in
10 actions to be taken in response to a nuclear attack.
11 (WM)

12 Q. WERE YOU RESPONSIBLE AT THE STATE LEVEL FOR
13 DEVELOPING THE CATAWBA EMERGENCY PLAN?

14 A. Yes.

15 Q. HAVE YOU BEEN INVOLVED WITH EMERGENCY PLANS FOR THESE
16 OTHER NUCLEAR PLANTS IN SOUTH CAROLINA?

17 A. Yes. All of them. There are four nuclear facilities
18 in South Carolina and this is the fourth set of plans
19 that we have developed. (WM)

20 Q. Q. WOULD YOU CHARACTERIZE THE ROLE OF THE EMERGENCY
21 PREPAREDNESS DIVISION TO BE ONE OF ENSURING THAT THE
22 STATE AGENCIES ARE AWARE OF THEIR RESPONSIBILITIES IN
23 AN EMERGENCY?

24 A. Yes I would. We are a coordinating agency for all
25 State resources in an emergency. (PL, WM)

26 Q. DO YOU PROVIDE TRAINING FOR THOSE AGENCIES?

1 A. Yes we do. (PL, WM)

2 Q. DO YOU MAKE CONTACT WITH THOSE AGENCIES TO ENSURE
3 THAT ADEQUATE RESOURCES ARE PROVIDED FOR THEIR NEEDS?

4 A. Yes we have. (PL, WM)

5 Q. HAVE YOU BEEN CONTACTED BY ANY AGENCIES WITH REGARD
6 TO CATAWBA INDICATING THEY HAVE NEEDS FOR ADDITIONAL
7 RESOURCES TO PERFORM THEIR ROLE?

8 A. Not to my knowledge. (PL, WM)

9 Q. HAVE YOU ASSURED YOURSELF THAT THESE RESPONSE
10 AGENCIES AND ORGANIZATIONS ARE AWARE OF THEIR
11 OBLIGATIONS AND REPONSIBILITIES?

12 A. Yes. The agencies that have a role to perform in the
13 plan were brought in on the process of drafting the
14 plan. They were given a copy in draft form as we
15 were developing it and were asked to comment, or make
16 additions or deletions and change their roles if they
17 weren't appropriate. The plan reflects a
18 responsibility that is satisfactory to each one of
19 the responding agencies or organizations. When we
20 revise the plan periodically we submit copies to each
21 state agency that performs a role and they are asked
22 to review it before it's published. (PL, WM)

23 Q. HAVE THE INDIVIDUALS IN EACH STATE AGENCY OR
24 ORGANIZATION THAT WOULD BE CALLED UPON BEEN
25 INSTRUCTED IN THEIR RESPONSE ACTIONS?

1 A. To the best of my knowledge, they have. We've
2 performed exercises with members of those agencies
3 and in each case, we have had no major discrepancies
4 found in any exercise that I am aware of. (PL, WM)

5 Q. HOW MANY NUCLEAR-RELATED EXERCISES HAS THE STATE OF
6 SOUTH CAROLINA BEEN INVOLVED IN?

7 A. The State has probably been involved in six or eight
8 such exercises. We have gone through each one of the
9 nuclear stations at least once and in the case of the
10 H.B. Robinson plant, twice. These were major
11 exercises, with full participation by all agencies
12 including the counties and the State. These
13 exercises indicate that the response agencies and
14 organizations in South Carolina have indeed performed
15 their function. (PL, WM)

16 Q. ARE YOU FAMILIAR WITH THE CONTENTIONS THAT HAVE BEEN
17 FILED IN THIS PROCEEDING BY PALMETTO ALLIANCE AND THE
18 CAROLINA ENVIRONMENTAL STUDY GROUP?

19 A. Yes. (PL, WM)

20 Q. WHAT IS THE PURPOSE OF YOUR TESTIMONY?

21 A. The purpose of our testimony is to address these
22 contentions that have been put forth by Palmetto
23 Alliance and the Carolina Environmental Study Group.
24 (PL, WM)

1 Testimony of Lunsford and McSwain on EPC 1

2 Q. THE INTERVENORS ALLEGE THAT PUBLIC INFORMATION
3 PROVIDED BY THE APPLICANTS AND THE STATE AND LOCAL
4 OFFICIALS IS NOT ADEQUATE TO ASSURE APPROPRIATE
5 RESPONSES TO NOTIFICATION PROCEDURES. DO YOU AGREE
6 WITH THAT STATEMENT?

7 A. No. I believe the brochure generally is a good
8 brochure and has considerable factual information.
9 We have notified Duke Power of a few changes that
10 need to be made. But generally the brochure is an
11 adequate document. (PL, WM)

12 Q. WHERE IN THE SOUTH CAROLINA PLAN IS PUBLIC
13 INFORMATION ADDRESSED?

14 A. Annex C of SCORERP and Annex D of the York County
15 Emergency Operations Plan. (WM)

16 Q. ARE YOU FAMILIAR WITH THIS TYPE OF BROCHURE?

17 A. Yes. (PL, WM)

18 Q. HAVE YOU REVIEWED THE BROCHURE TO ASSURE YOURSELF
19 THAT IT IS AN ADEQUATE NOTIFICATION TOOL?

20 A. Yes I have. (PL, WM)

21 Q. HAVE YOU REVIEWED THE REVISED BROCHURE?

22 A. Yes I have. It is my view that the brochure is
23 satisfactory. I agree that changes do have to made
24 and they will have to be made from time to time in
25 the future because the plan itself changes from time
26 to time. (PL, WM)

1 There are some things that we have addressed to
2 Duke Power which we would like to see changed and
3 they have agreed to do so. Based on that agreement,
4 I am satisfied that this brochure is an adequate
5 tool. (PL, WM)

6 Q. WHAT CHANGES NEED TO BE MADE TO THE REVISED 1984
7 EDITION OF THE CATAWBA BROCHURE?

8 A. As far as the map is concerned, on the large scale
9 map where the primary shelters are designated, each
10 host county's boundary should be shown (Chester,
11 Cherokee, Union, Lancaster, and Fairfield). As far
12 as the verbage between the two maps, the communities
13 within each zone should be listed and the "county"
14 designation removed. (WM)

15 Q. WHAT ABOUT THE SHELTERS FOR YORK COUNTY RESIDENTS OF
16 ZONE A-O?

17 A. Those are going to have to be changed to go into the
18 Blacksburg area of Cherokee County. (WM)

19 Q. ARE ANY OTHER CHANGES NECESSARY?

20 A. Personally, I would like to see in the next revision
21 to the brochure a card inserted asking certain
22 information about whether the recipient was blind,
23 hearing impaired, or transportation dependent. That
24 way we as planners have some type of grasp on how
25 many people are in each category. That list would be
26 updated annually with the brochure revision. (WM)

1 Q. ARE THERE ANY OTHER AREAS OF THE BROCHURE THAT YOU
2 WOULD LIKE TO SEE CHANGED?

3 A. In the rumor control portion of the brochure the
4 numbers listed there now are for the station itself.
5 Additional numbers could be put in there from the
6 media center to handle a large influx of calls for
7 rumor control. (WM)

8 Q. HAS DUKE MADE IT UNDERSTOOD THAT THEY WOULD
9 INCORPORATE CHANGES OF THAT SORT IN THE NEXT
10 BROCHURE?

11 A. Yes they have. (WM)

12 Q. DO YOU HAVE AN IDEA OF WHEN THE NEXT BROCHURE MAY BE
13 COMING OUT?

14 A. In September of this year to the best of my
15 knowledge. (WM)

16 Q. IS IT A GOAL OF STATE PLANNING FOR RADIOLOGICAL
17 EMERGENCIES INVOLVING NUCLEAR POWER PLANTS THAT
18 ADVANCE INFORMATION BE PROVIDED TO MEMBERS OF THE
19 PUBLIC IN THAT AREA SURROUNDING THE NUCLEAR POWER
20 PLANT?

21 A. Yes. (PL, WM)

22 Q. WHAT IS THE PURPOSE IN PROVIDING SUCH INFORMATION?

- 1 A. The purpose is to protect the public and the public's
2 property and to provide information as to what the
3 public should do to protect itself concerning actions
4 to be taken in case there is an incident at the
5 nuclear station. (PL, WM)
- 6 Q. WHO SHOULD RECEIVE SUCH INFORMATION?
- 7 A. Everyone residing within the ten-mile emergency
8 planning zone plus information should be made
9 available to transients. (PL, WM)
- 10 Q. WHAT INFORMATION HAS THE STATE OF SOUTH CAROLINA
11 ITSELF DISTRIBUTED?
- 12 A. The State has put out a brochure of its own
13 containing information on actions that should be
14 taken in the fifty-mile ingestion pathway. That was
15 developed by the Clemson University Cooperative and
16 Extension Service and the State Emergency
17 Preparedness Division. (PL, WM)
- 18 Q. HOW IS THAT INFORMATION DISSEMINATED?
- 19 A. We did a census on the number of farmers in the state
20 and issued an appropriate number of brochures to each
21 county extension agent for further delivery to
22 farmers in each county. (PL, WM)
- 23 Q. NOW, WITH RESPECT TO PEOPLE INSIDE THE TEN-MILE EPZ,
24 ASIDE FROM THE BROCHURE, HAVE THOSE INDIVIDUALS BEEN
25 GIVEN ANY INFORMATION OR FURNISHED ANY INFORMATION BY
26 THE STATE?

1 A. Yes. Members of the staff of this office plus other
2 state agencies have appeared at public meetings.
3 During the course of exercises that were to be held
4 and were being held, members of this agency and other
5 agencies, such as public information agencies in
6 State government, put out information about the
7 exercise - that it would occur and the purpose of it.
8 (PL, WM)

9 Q. WAS THAT INFORMATION CARRIED BY THE LOCAL MEDIA?

10 A. Yes. Both on television and in the newspapers. (PL,
11 WM)

12 Q. DO YOU PLAN TO CONTINUE YOUR AWARENESS EFFORTS WITH
13 RESPECT TO EDUCATING THE MEMBERS OF THE PUBLIC IN THE
14 TEN-MILE EPZ AROUND CATAWBA?

15 A. Yes. (PL, WM)

16 Q. WOULD THAT BE SIMILAR TO THE ACTIVITIES YOU
17 PREVIOUSLY DISCUSSED?

18 A. Yes. I would hope there would also be more
19 continuing education of the public, for in my view
20 that is one of the most important things that must be
21 done. (PL, WM)

22 Q. ARE YOU AWARE OF ANY EFFORT TO ASSURE THAT THE BLIND
23 AND ILLITERATE WILL BE MADE AWARE OF THE BROCHURE OR
24 OF ANY DOCUMENTS THAT THE STATE OF SOUTH CAROLINA
25 MIGHT ISSUE CONCERNING EMERGENCY RESPONSE?

- 1 A. The Emergency Preparedness Director and other staff
2 members in each county are generally aware of who
3 those people are. In all of our preparations and
4 planning and during exercises, one of the facets that
5 we cover is notifying people who are not readily
6 accessible to routine notification. That would fall
7 within the county level jurisdiction or even in other
8 entities or echelons in these communities. (PL, WM)
- 9 Q. HOW WILL THE STATE DISSEMINATE INFORMATION IN THE
10 EVENT OF A RADIOLOGICAL EMERGENCY?
- 11 A. By the Emergency Broadcast System (EBS) and the South
12 Carolina Educational Television Network. (PL, WM)
- 13 Q. WHAT TYPE OF INFORMATION WILL BE CONVEYED TO THE
14 PUBLIC THROUGH THE EBS MESSAGES?
- 15 A. They will provide information about the plant
16 conditions, what is happening, and what the public
17 should be doing. (PL, WM)
- 18 Q. HAVE YOU UTILIZED THE EBS SYSTEM IN OTHER
19 EMERGENCIES?
- 20 A. Yes. I have initiated it myself. (PL, WM)
- 21 Q. DO YOU BELIEVE THAT THERE WILL BE ANY PROBLEM IN
22 COMMUNICATING THE EBS MESSAGES WITH RESPECT TO THE
23 CATAWBA EMERGENCY PLAN?

1 A. Not in a real emergency. We have evidence that there
2 will not be because we, during the recent exercise,
3 initiated that system twice and it operated
4 perfectly. (PL, WM)

5 Q. WITH RESPECT TO THE INFORMATION THAT HAS BEEN
6 DISTRIBUTED TO THE PUBLIC, BOTH THE DUKE BROCHURE AND
7 THE ACTIVITIES THAT THE STATE HAS TAKEN AND WILL
8 TAKE, DO YOU FEEL THAT THE COMBINATION OF THOSE
9 ACTIVITIES PROVIDES ADEQUATE INFORMATION TO THE
10 PUBLIC ON WHAT TO DO IN AN EMERGENCY?

11 A. I believe it does. But, I also believe it takes
12 constant attention to keep the public educated, to
13 assure that the public has access to that
14 information. (PL, WM)

15 Q. ARE YOU AWARE THAT DUKE POWER IS GOING TO DISTRIBUTE
16 THE BROCHURE ANNUALLY?

17 A. Yes. I feel that that is a step in the right
18 direction in terms of continuing to educate the
19 public. The state will continue to educate the
20 public through meetings, broadcasts, newspaper
21 coverage, and the like. (PL, WM)

22 Q. DO YOU FEEL THAT THOSE CONTINUING EFFORTS WOULD MEET
23 THE NEED OF CONTINUING TO EDUCATE THE PUBLIC?

24 A. I believe so. (PL, WM)

1 Q. CESG AND PALMETTO IN CONTENTION 1 MAKE NUMEROUS
2 CRITICISMS OF THE DUKE BROCHURE. PALMETTO AND CESG
3 ALLEGE THAT BECAUSE OF STATEMENTS IN THE BROCHURE
4 PEOPLE WILL NOT TAKE NOTICE OF AN EMERGENCY
5 SERIOUSLY. DO YOU AGREE?

6 A. No. I think they will take notice of an emergency.
7 I think they will respond to not only the sirens, but
8 also to what is given to them over the emergency
9 broadcast system, such as instructions and additional
10 educational information. I think they will respond
11 because we had evidence of that just recently in
12 connection with the tornado. (WM)

13 In the recent tornado, I was in Marlboro County
14 which was the county that was hardest hit insofar as
15 fatalities. I assure you that people paid very close
16 attention to the local radio station to get their
17 instructions in Marlboro County. They have excellent
18 coverage and an excellent response. (PL)

19 O. IT IS YOUR EXPERIENCE THAT IN AN EMERGENCY PEOPLE
20 WILL FOLLOW INSTRUCTIONS?

21 A. Yes. In the type of emergencies I have been exposed
22 to lately (the tornado), there was excellent
23 response. (PL, WM)

24 Q. DO YOU FEEL THAT IF ONE WERE TO READ THE BROCHURE AND
25 THEN HEARD A SIREN, HE WOULD ACT RESPONSIBLY AND TAKE
26 THE MATTER SERIOUSLY?

1 A. Yes. (PL, WM)

2 A. I believe so. It states very clearly what one is
3 supposed to do when the sirens sounds.(PL)

4 Q. DO YOU FEEL THAT THE BROCHURE GIVES ADEQUATE
5 INFORMATION CONCERNING PROTECTIVE ACTIONS THAT SHOULD
6 BE TAKEN?

7 A. I do. (PL, WM)

8 Q. CONTENTION 1 ALLEGES THAT THE BROCHURE DOES NOT
9 STRESS THE IMPORTANCE OF GETTING TO A SHELTER. DO
10 YOU AGREE?

11 A. No, I think it stresses it sufficiently. (PL, WM)

12 Background Information on S.L. Finklea

13 Q. PLEASE STATE YOUR NAME AND BUSINESS ADDRESS, MR.
14 FINKLEA.

15 A. My name is Samuel L. Finklea, III. I am employed by
16 the Bureau of Radiological Health, South Carolina
17 Department of Health and Environmental Control, 2600
18 Bull Street, Columbia, South Carolina 29201. (SF)

19 Q. WHAT IS YOUR EDUCATIONAL BACKGROUND?

20 A. My educational background is:
21 B.S. in Physics, Duke University, 1967; M.S. in
22 Physics, University of South Carolina, 1969; Ph.D. in
23 Physics, University of South Carolina, 1975; J.D.,
24 University of South Carolina, 1984. (SF)

25 Q. WHAT IS YOUR JOB EXPERIENCE AS IT RELATES TO
26 EMERGENCY RESPONSE?

1 A. I have been employed by the Bureau of Radiological
2 Health since 1977. During the course of my
3 employment I have:

- 4 - participated in emergency response
5 exercises in support of the South Carolina
6 Operational Radiological Emergency Response
7 Plan (SCORERP);
- 8 - reviewed the State Technical Radiological
9 Emergency Response Plan (STRERP), which
10 describes the Bureau's responsibilities in
11 support of SCORERP;
- 12 - prepared and published revisions of
13 STRERP to comply with requirements
14 established by State and Federal
15 regulations;
- 16 - written computer codes to estimate
17 radiation exposure doses which would result
18 from airborne releases of radioactive
19 materials;
- 20 - participated in workshops and training
21 courses dealing with emergency response
22 activities. This includes the Radiological
23 Emergency Response Operations training
24 course, Las Vegas/Nevada Test Site, Nevada,
25 1978; workshop on recovery and reentry
26 planning sponsored by the Federal Emergency

1 Management Agency Region IV Regional
2 Assistance Committee, Atlanta, Georgia,
3 1983; and
4 - coordinated Bureau activities during four
5 State emergency response exercises
6 conducted and evaluated according to
7 NUREG-0654 criteria. (SF)

8 Q. HAVE YOU READ CESG/PALMETTO ALLIANCE EMERGENCY
9 PLANNING CONTENTION 7?

10 A. Yes. (SF)

11 Q. WHAT IS THE PURPOSE OF YOUR TESTIMONY?

12 A. The purpose of my testimony is to address
13 Emergency Planning Contention 7 insofar as it
14 contests the adequacy of state plans to provide
15 information on actions which members of the
16 public should take if and when they are advised
17 to take shelter. (SF)

18 Testimony on EPC 7

19 Q. YOU WERE PREVIOUSLY ASKED SOME QUESTIONS AS TO
20 THE BROCHURE'S TREATMENT OF SHELTERING
21 INFORMATION, MESSRS. LUNSFORD AND MCSWAIN. HAVE
22 YOU HAD SOME EXPERIENCE IN SHELTERING?

23 A. Yes. (WM)

24 Q. WHERE IN THE STATE PLAN IS IN-PLACE SHELTERING
25 ADDRESSED?

- 1 A. Figure 12 of the Catawba Site Specific Plan is
2 the Catawba emergency information brochure.
3 Part of that brochure discusses actions the
4 public should take if directed to take in-place
5 shelter. In addition, Annex C of SCORERP
6 addresses actions that individuals should take
7 if directed to take in-place shelter. Annexes D
8 and Q of the York County Emergency Operations
9 Plan address in-place sheltering. (PL, WM)
- 10 Q. WERE YOU GIVEN TRAINING IN WHAT PROTECTIVE
11 ACTION ONE SHOULD TAKE IN THE EVENT OF A NUCLEAR
12 ATTACK?
- 13 A. Yes. (WM)
- 14 Q. DO THOSE PROTECTIVE ACTIONS PARALLEL WITH WHAT
15 IS CONTAINED IN THE CATAWBA BROCHURE, TO THE
16 BEST OF YOUR KNOWLEDGE?
- 17 A. To the best of my knowledge they do. (WM)
- 18 Q. IN AN ACCIDENT, WILL INFORMATION CONCERNING
19 SHELTERING BE DISSEMINATED TO THE PUBLIC?
- 20 A. Yes. That will be through the EBS system. (PL,
21 WM)
- 22 Q. WILL THE EBS MESSAGE PARALLEL THE BROCHURE
23 INSTRUCTION CONCERNING SHELTERING?
- 24 A. Yes it will. (WM)

1 Q. DOES THE STATE PLAN PROVIDE ADEQUATE INFORMATION ON
2 ACTIONS MEMBERS OF THE PUBLIC SHOULD TAKE IF AND WHEN
3 THEY ARE ADVISED TO TAKE SHELTER?

4 A. Yes. (SF)

5 Q. PLEASE EXPLAIN.

6 A. State plans are measured against the requirements of
7 "Criteria for Preparation and Evaluation of
8 Radiological Emergency Response Plans and
9 Preparedness in Support of Nuclear Power Plants."
10 U.S. Nuclear Regulatory Commission, Federal Emergency
11 Management Agency; NUREG-0654, Rev. 1, 1980.
12 Planning Evaluation Criteria J.9 addresses evacuation
13 and sheltering as protective actions:

14 Each State . . . shall establish a capacity for
15 implementing protective measures based upon
16 protective action guides and other criteria.
17 This shall be consistent with the
18 recommendations of EPA regarding exposure from
19 passage of radioactive airborne plumes, (EPA-
20 520/1-75-001) . . . ['Manual of Protective
21 Action Guides and Protective Actions for Nuclear
22 Incidents,' Environmental Protection Agency,
23 1975 (and subsequent revisions and additions)]

24 The South Carolina emergency response plans were
25 developed according to the guidance provided in this
26 latter document. Appendix B, "Planner's Evaluation
27 Guide for Evacuation and Shelter," addresses the
28 likely hazards which would be experienced during an
29 airborne release of radioactive material from a fixed
30 nuclear facility. It summarizes the various pathways

1 by which the public could be exposed and evaluates
2 the available protective actions which could be used
3 to mitigate the consequences. The Appendix
4 recognizes that evacuation before exposure is the
5 recommendation of choice (B-4, B-20) but that this
6 may not always be possible. Furthermore, untimely
7 evacuation may in some instances result in greater
8 exposure than one would receive while remaining in
9 available shelter until conditions were more
10 favorable. (B-4) (SF)

11 The appendix summarizes the factors which
12 determine the amount of protection afforded by
13 various types of typical structures. It points out
14 that sheltering effectiveness is usually increased by
15 turning off ventilation systems to reduce
16 infiltration of outside air, by closing cracks and
17 penetrations, and by simple filtration of inhaled
18 air. B-21. It also points out that, all else being
19 equal, larger buildings, buildings with more massive
20 construction, and buildings with basements provide
21 more protection than smaller, lighter buildings
22 without basements. B-22. On the other hand, it
23 advises against planning to use existing Civil
24 Defense shelters or centrally located structures

1 where to do so would require members of the public to
2 leave whatever structure they were in at the time to
3 seek different shelter. B-7 (SF)

4 The Appendix provides criteria for determining
5 when sheltering followed by evacuation is the most
6 effective means of reducing exposure. B-16 et seq.
7 (SF)

8 The State plans call for evacuation as a
9 precaution to avoid any exposure whenever possible.
10 However, in those situations where evacuation cannot
11 be completed before exposure begins, the plans
12 provide for a recommendation of sheltering in place
13 to be made. Sample press releases included in
14 SCORERP include instructions about remaining indoors,
15 closing doors and windows, and turning off
16 ventilation systems which draw in outside air. These
17 are the measures recommended in the EPA Manual.
18 Likewise, the public information brochure (1984
19 revision, page 9) contains similar information.
20 These recommendations would be reiterated by public
21 announcement whenever sheltering in place is
22 recommended: additional information about the time
23 sheltering should begin and end would be provided as
24 necessary. Whenever possible, populations at risk
25 would be evacuated before exposure begins. (SF)

1 TESTIMONY OF GASTON COUNTY
2 (BOB E. PHILLIPS) ON
3 EMERGENCY PLANNING CONTENTIONS 1 AND 7

4 Background Information

5 Q. PLEASE STATE YOUR NAME AND BUSINESS ADDRESS.

6 A. My name is Bob E. Phillips. My business address is
7 P.O. Box 1578, Gastonia, North Carolina 28052.

8 Q. PLEASE STATE YOUR PRESENT JOB TITLE AND DESCRIBE THE
9 NATURE OF YOUR JOB.

10 A. I am Director of the Gaston County Emergency
11 Management Agency. My responsibilities include
12 updating all emergency management plans. I am in
13 charge of the county communications center, medical
14 transport service, county fire marshal, and my office
15 responds to all hazardous materials incidents within
16 the county. I prepared the disaster relief and
17 assistance plans and have prepared the plans in case
18 of a nuclear war. In addition, I have prepared the
19 county emergency response plans for both the Catawba
20 and McGuire nuclear stations.

21 Q. PLEASE DESCRIBE YOUR RELEVANT EDUCATIONAL AND
22 PROFESSIONAL BACKGROUND AND EXPERIENCE.

23 A. See my resume, which is included as Attachment A to
24 my testimony.

25 Q. HAVE YOU HAD EXPERIENCE WITH THE EVACUATION OF
26 CITIZENS DURING A DISASTER OR EMERGENCY SITUATION?

1 A. Yes. There have been several tanker incidents in
2 Gaston County involving gasoline, methanol and
3 kerosene in which we had to evacuate and house
4 citizens. Two years ago, we had to evacuate a two-
5 block section of Mount Holly and 250 people were
6 sheltered in churches where they remained for two to
7 three hours. Last week, I traveled to Gates County,
8 North Carolina, to help the county manager there with
9 tornado disaster work. This week, I went to
10 Marshville, North Carolina, to take cots and blankets
11 to be used in sheltering activities because of the
12 train derailment and fire.

13 Q. ARE YOU FAMILIAR WITH THE ISSUES IN THIS PROCEEDING
14 RELATING TO EMERGENCY PLANNING EFFORTS FOR THE
15 CATAWBA NUCLEAR STATION?

16 A. Yes, I have read the CESC/Palmetto Alliance emergency
17 planning contentions.

18 Q. WHAT IS THE PURPOSE OF YOUR TESTIMONY?

19 A. The purpose of my testimony is to address those of
20 the emergency planning contentions which involve
21 Gaston County.

22 Q. DOES THE GASTON COUNTY PLAN PROVIDE INFORMATION
23 RELATED TO THESE CONTENTIONS?

24 A. Yes, Part 2, Sections IV.D and IV.E of the N.C. State
25 Plan and Annex D to that Plan.

26 Q. BY WAY OF BACKGROUND, PLEASE DESCRIBE THE OVERALL
27 ORGANIZATION OF THE GASTON COUNTY GOVERNMENT.

1 A. Gaston County operates on the County Commission
2 system. We have seven Commissioners and a County
3 Manager, which runs the function of the government.
4 We have 31 departments in the County government of
5 which Emergency Management is one.

6 Q. WHAT DOES THE EMERGENCY MANAGEMENT DEPARTMENT DO?

7 A. We run the county communications center. We dispatch
8 all fire, police and ambulance calls from the central
9 dispatch which is in the Emergency Operations Center
10 (EOC). The Fire Marshal's office is here and also
11 the medical transport service.

12 Q. ARE ALL THESE UNITS IN THE EMERGENCY PLANNING
13 DEPARTMENT INVOLVED IN EMERGENCY RESPONSE IN THE
14 EVENT OF A RADIOLOGICAL EMERGENCY?

15 A. This is correct.

16 Q. ARE YOU FAMILIAR WITH GASTON COUNTY'S EMERGENCY
17 PLANNING EFFORTS FOR CATAWBA NUCLEAR STATION?

18 A. Yes.

19 Q. HOW DID YOU BECOME FAMILIAR WITH THOSE EFFORTS?

20 A. I had previously worked on our emergency planning
21 efforts for the McGuire Nuclear Station and I
22 prepared, with assistance from state planners, Part 2
23 of the North Carolina Emergency Response Plan in
24 support of the Catawba Nuclear Station, which
25 describes Gaston County procedures.

1 Q. DOES GASTON COUNTY HAVE A SPECIFIC EMERGENCY PLAN TO
2 COPE WITH A CATAWBA-RELATED NUCLEAR EMERGENCY?

3 A. Yes, the Gaston County Radiological Emergency
4 Response Plan.

5 Q. DID YOU PREPARE THIS PLAN?

6 A. Yes, I developed the plan for Gaston County.

7 Q. ARE YOU THE GASTON COUNTY OFFICIAL RESPONSIBLE FOR
8 THE PLAN?

9 A. Yes.

10 Q. WOULD YOU BRIEFLY DESCRIBE THE PLAN?

11 A. O.K. We've got of course our Emergency
12 Classification System; our Warning Notification
13 Methods and Procedures, where we notify the general
14 public; we have the siren system as the primary means
15 of notification and our secondary means is having
16 fire departments to go out on predetermined routes
17 using PA systems and public education information.
18 We try to keep the media informed about our plans and
19 what to tell the people to do. In addition, we have
20 decontamination points set up which are manned by the
21 volunteer fire department personnel and highway
22 patrol officers. These are set up outside the 10-
23 mile EPZ. There are also designated traffic and
24 control points set up on all roads which are manned
25 by the county police, the highway patrol, sheriff's
26 department and municipalities' personnel. There are

1 two designated shelters at Mount Holly Junior High
2 School and at Ashley Junior High which are manned by
3 the Red Cross. Personnel monitoring at the two
4 shelters is performed by the volunteer fire
5 department. Communications at the schools is
6 provided by the sheriff's department.

7 Q. IN THAT CONNECTION HAVE YOU BEEN IN CONTACT WITH ANY
8 LOCAL NEWSPAPERS?

9 A. Yes, our Gastonia Gazette. I keep them informed on
10 every plan that we put together and what the people
11 are to do.

12 Q. DID THE GASTONIA GAZETTE COVER THE RECENT EMERGENCY
13 PLANNING EXERCISE?

14 A. Yes, they did.

15 Q. DID THEY CARRY INFORMATION ABOUT WHAT YOU EXPECT
16 PEOPLE TO DO WHEN THEY HEAR THE SIRENS?

17 A. Right. We told them to have the people turn their
18 radios and TVs on for public information if the
19 sirens go off.

20 Q. WHAT ELSE DOES THE PLAN COVER?

21 A. Emergency communications. We have communications
22 with all of our county departments and also the city
23 departments, and this communications is manned 24
24 hours a day, seven days a week from here in the EOC,
25 and we also conduct exercises on the the Emergency
26 Plan which we just finished in February.

1 Q. IS THERE ANYTHING ELSE IN THE COVERAGE OF THE PLAN
2 THAT YOU CARE TO MENTION?

3 A. Well we do have the City of Gastonia police, fire,
4 public works and administrative departments, and 31
5 county departments that would run the operation from
6 the EOC.

7 Q. DESCRIBE BRIEFLY YOUR ROLE IN OVERSEEING THE
8 READINESS OF THE VARIOUS COUNTY DEPARTMENTS AND
9 AGENCIES THAT ARE INVOLVED IN RADIOLOGICAL EMERGENCY
10 RESPONSE IN GASTON COUNTY.

11 A. I coordinate, brief and train all of the separate
12 Gaston County entities that are involved in the
13 emergency response.

14 Q. IN YOUR OPINION, DOES THE PLAN PROVIDE REASONABLE
15 ASSURANCE THAT MEMBERS OF THE PUBLIC WILL BE
16 ADEQUATELY PROTECTED IN THE EVENT OF A CATAWBA-
17 RELATED NUCLEAR EMERGENCY?

18 A. Yes.

19 Q. WHERE IS YOUR EMERGENCY OPERATIONS CENTER IN
20 RELATIONSHIP TO THE APPROXIMATELY 10-MILE EPZ?

21 A. It is approximately 16 miles from the plant, which is
22 6 miles outside the plume EPZ.

23 EPC 1 Testimony

24 Q. TURNING TO THE CONTENTIONS IN THIS CASE, INTERVENORS
25 ASSERT IN EMERGENCY PLANNING CONTENTION 1 THAT THE
26 PUBLIC INFORMATION PROVIDED BY APPLICANTS AND BY

1 STATE AND LOCAL OFFICIALS IS NOT ADEQUATE TO ASSURE
2 APPROPRIATE RESPONSES TO EMERGENCY NOTIFICATION
3 PROCEDURES. HOW WILL GASTON COUNTY ATTEMPT TO
4 PROVIDE MEMBERS OF THE PUBLIC WITH ADVANCE
5 INFORMATION IN A RADIOLOGICAL EMERGENCY?

6 A. I have mentioned that all Gaston County activities
7 involving the emergency planning effort for Catawba
8 Nuclear Station have been communicated to the
9 Gastonia Gazette, which in turn has carried
10 information about what the public should expect and
11 what they would be expected to do if they hear the
12 sirens. Our goal is to make the public aware of our
13 planning objectives in the event of an accident at
14 Catawba.

15 Q. HAS THERE BEEN ANY OTHER COMMUNICATION AT THE COUNTY
16 LEVEL TO THE NEWSPAPERS, RADIO, TELEVISION OR TO
17 CITIZENS' ORGANIZATIONS?

18 A. Yes, for example, I have talked to senior citizens'
19 groups about it. I have also talked to the Gaston
20 College radio station on our role should an emergency
21 occur at Catawba. I also gave a brief synopsis at
22 Gaston College on what we did during the emergency
23 drill and why.

24 Q. WHAT GROUPS SHOULD RECEIVE SUCH ADVANCE INFORMATION?

25 A. All residents within the EPZ.

1 Q. IN YOUR JUDGMENT, IS THE INFORMATION THAT HAS BEEN
2 DISTRIBUTED ADEQUATE?

3 A. Yes.

4 Q. ARE YOU FAMILIAR WITH THE DUKE POWER BROCHURE FOR EPZ
5 RESIDENTS?

6 A. Yes.

7 Q. DO YOU HAVE ANY VIEW AS TO WHETHER THE CURRENT
8 VERSION OF THE DUKE POWER BROCHURE FOR EPZ RESIDENTS
9 (WHICH HAS BEEN REVISED SINCE INTERVENORS FILED THEIR
10 CONTENTION) IS SATISFACTORY FOR ITS INTENDED PURPOSE?

11 A. As far as I know, yes sir. The revised brochure is
12 easier to understand, for one thing, and updates some
13 of the information.

14 EPC 7 Testimony

15 Q. WITH REGARD TO EMERGENCY PLANNING CONTENTION 7, ARE
16 YOU SATISFIED THAT GASTON COUNTY COMMUNICATIONS
17 AND/OR THE APPLICANTS' REVISED BROCHURE FOR
18 DISTRIBUTION TO THE PUBLIC IN THE EPZ ADEQUATELY
19 ADDRESS THE PREPARATIONS TO BE TAKEN BY THE PUBLIC TO
20 ACHIEVE "EFFECTIVE SHELTERING" AND THE ACTIONS THAT
21 PEOPLE SHOULD TAKE WHEN ADVISED TO SEEK SHELTER?

22 A. I am satisfied.

23 Q. PLEASE EXPLAIN YOUR RESPONSE.

24 A. The steps identified are consistent with those which
25 we have been instructed in with respect to civil
26 defense preparedness. In addition, Gaston County's

1 educational efforts, previously mentioned, parallel
2 Applicants' instructions. Also the EBS will provide
3 similar information.

1 TESTIMONY OF MECKLENBURG COUNTY
2 (LEWIS WAYNE BROOME) ON
3 EMERGENCY PLANNING CONTENTIONS 1 AND 7

4 Background Information

5 Q. PLEASE STATE YOUR NAME, JOB TITLE, AND BUSINESS
6 ADDRESS.

7 A. My name is Lewis Wayne Broome. I am Administrative
8 Officer for the Charlotte-Mecklenburg Emergency
9 Management Office. My business address is 951 South
10 Independence Boulevard, Room 655, Charlotte, North
11 Carolina 28202.

12 Q. PLEASE DESCRIBE YOUR RELEVANT EDUCATIONAL AND
13 PROFESSIONAL QUALIFICATIONS AND WORK EXPERIENCE.

14 A. I have a BA Degree in Sociology from Belmont Abbey
15 College and an Associate degree in Business
16 Administration/Management from Central Piedmont
17 Community College. I have about four years and eight
18 months experience on the job I am in now, associated
19 with planning and responses to major emergencies. My
20 resume is attached.

21 Q. HAVE YOU READ THE INTERVENORS' EMERGENCY PLANNING
22 CONTENTIONS WHICH HAVE BEEN ACCEPTED AS ISSUES IN
23 THIS PROCEEDING?

24 A. Yes.

25 Q. WHAT IS THE PURPOSE OF YOUR TESTIMONY?

1 A. The purpose of my testimony is to address those
2 contentions or parts of contentions that deal with
3 Charlotte-Mecklenburg's emergency response efforts,
4 and those which I otherwise have some basis to
5 comment on.

6 Q. DO YOU HAVE PRIOR EXPERIENCE WITH EVACUATION,
7 SHELTERING, AND PROVIDING FOOD AND CLOTHING TO
8 EVACUEES?

9 A. During the 1982 chemical fire on North Tryon Street,
10 I participated in the actual evacuation process by
11 providing transportation to evacuees and insuring
12 that the people were fed. I also assisted in
13 providing shelter for the dislocated.

14 Providing clothing was not an issue at that
15 particular situation, but the procedure is in place
16 for doing so and it is being addressed by local and
17 state officials.

18 Q. BY WAY OF BACKGROUND, WOULD YOU DESCRIBE THE COUNTY
19 AND CITY GOVERNMENT ORGANIZATION YOU ARE PART OF?

20 A. The City of Charlotte has a council manager form of
21 government. Mecklenburg County consists of a
22 commissioners-manager form of government. The
23 Charlotte-Mecklenburg Emergency Management Office is
24 a joint city-county department.

25 Q. IS COORDINATION OF ALL SORTS OF EMERGENCIES THE
26 RESPONSIBILITY OF YOUR GROUP?

1 A. All major disaster planning for major situations
2 ranging from flooding, man-made disasters and natural
3 disasters up to and including nuclear war, initiates
4 from this office.

5 Q. DO YOUR RESPONSIBILITIES INCLUDE EMERGENCY RESPONSE
6 IN THE EVENT OF RADIOLOGICAL EMERGENCY AT CATAWBA?

7 A. Yes. This office is charged with planning support
8 documents for the city and county's response to a
9 radiological emergency involving the Catawba Nuclear
10 Station and coordinates the efforts of the various
11 city and county departments that would respond.

12 Q. DOES MECKLENBURG COUNTY HAVE A SPECIFIC EMERGENCY
13 PLAN TO COPE WITH A CATAWBA-RELATED NUCLEAR
14 EMERGENCY?

15 A. Yes. We do have a basic planning document provided
16 by the State, the North Carolina Emergency Response
17 Plan. The operational procedures that may relate to
18 Mecklenburg County for elements of that basic
19 planning document are being developed at this time.

20 Q. DID YOU PREPARE THIS PLAN?

21 A. I assisted in preparation of the Mecklenburg County
22 Plan, which is Part III of the N.C. State Plan.

23 Q. ARE YOU THE MECKLENBURG COUNTY OFFICIAL RESPONSIBLE
24 FOR THE PLAN?

25 A. Yes.

1 Q. IN YOUR OPINION DOES THE PLAN PROVIDE REASONABLE
2 ASSURANCE THAT MEMBERS OF THE PUBLIC WILL BE
3 ADEQUATELY PROTECTED IN THE EVENT OF A CATAWBA-
4 RELATED NUCLEAR EMERGENCY?

5 A. Yes.

6 Q. PLEASE DESCRIBE BRIEFLY THE EMERGENCY RESPONSE PLAN
7 FOR MECKLENBURG COUNTY.

8 A. The basic plan identifies several primary departments
9 that will take part in any exercise. It explains
10 their role and responsibility with regard to
11 activation of the plan. Procedures relating to
12 evacuation and shelter and alert notification are
13 addressed.

14 Q. PLEASE DESCRIBE BRIEFLY YOUR ROLE IN OVERSEEING
15 THE READINESS OF THE VARIOUS COUNTY DEPARTMENTS AND
16 AGENCIES THAT ARE INVOLVED IN RADIOLOGICAL EMERGENCY
17 RESPONSE IN MECKLENBURG COUNTY.

18 A. First of all, readiness involves Mecklenburg County
19 and the City of Charlotte. My office utilizes the
20 resources of all the departments of city and county
21 government. It is the responsibility of emergency
22 management to coordinate those activities among all
23 those departments. My office's role in overseeing
24 readiness involves training, conducting exercises,
25 and maintaining the emergency plans.

26 Q. AND YOU DO THAT?

1 A. Yes. Myself and Luther Fincher, who is now the
2 acting director in the Emergency Management Office,
3 would coordinate those activities to insure that in
4 an EOC environment, everybody works from the same
5 plans; that roles and responsibilities are
6 identified, that resources are identified and that
7 problems are mitigated with the best available
8 resource whether it be fire, police, medical or some
9 other organization. We coordinate, we get input from
10 these departments to insure that they are capable of
11 doing what it is that they have agreed to do in the
12 planning documents so that there are no surprises at
13 the time that the request is made up enough to carry
14 on a specific function.

15 Q. WOULD YOU ELABORATE ON THE RESOURCES THAT ARE
16 AVAILABLE TO IMPLEMENT THE CITY OF CHARLOTTE-
17 MECKLENBURG PLAN?

18 A. The planning document - the basic planning document -
19 which is Part III of the North Carolina Emergency
20 Response Plan specifically states in those nine
21 categories that we listed under the table of contents
22 Mecklenburg County. I think it should be brought out
23 that the resources of the City of Charlotte which
24 includes emergency response organizations and support
25 organizations are also available to us, us being

1 Mecklenburg County and the overall operation so that
2 we can respond with total resource commitment from
3 both city and county and not just from one.

4 Q. DOES THAT REPRESENT A SUBSTANTIAL AUGMENTATION OF THE
5 RESOURCES THAT WOULD BE AVAILABLE IF WE WERE SPEAKING
6 STRICTLY OF MECKLENBURG AS A COUNTY?

7 A. Yes. An example would be there are approximately 120
8 law enforcement people in county government, while
9 there are probably about five to six hundred city
10 policemen. The paid fire department of the county
11 represents about five people, while the paid city
12 fire department represents about six hundred. So as
13 you can see by those numbers we are looking at a
14 substantial amount of resources that would be
15 available to us.

16 EPC 1 Testimony

17 Q. DOES YOUR EMERGENCY PLAN PROVIDE INFORMATION WHICH
18 ADDRESSES THIS CONTENTION?

19 A. Yes. Part 3, Section IV.D. and IV.E to the N.C. State
20 Plan, and Annex D to that Plan.

21 Q. EMERGENCY PLANNING CONTENTION 1 ALLEGES THAT THE
22 PUBLIC INFORMATION THAT IS AVAILABLE TO THE PEOPLE IN
23 THE CATAWBA EPZ IS NOT ADEQUATE. HAS CHARLOTTE-
24 MECKLENBURG DISSEMINATED ANY PUBLIC INFORMATION ON
25 RESPONDING TO A RADIOLOGICAL EMERGENCY?

1 A. We have made available the Duke brochure on a request
2 basis. We have not published anything such as a
3 brochure but we have responded when requests for
4 information have been made.

5 Q. COULD YOU GIVE US EXAMPLES OF THE KINDS OF REQUESTS
6 YOU HAVE RECEIVED?

7 A. The 3 inquiries most often received by this office
8 are (1) What zone do I live in? (2) What do the
9 sirens mean? (3) Where would I go?

10 Q. HAVE YOU EVER BEEN CALLED UPON TO SPEAK BEFORE ANY
11 ORGANIZATIONS OR GROUPS IN THE COUNTY TO EXPLAIN THE
12 CITY/COUNTY EMERGENCY RESPONSE EFFORTS?

13 A. Yes, I have been called upon several times by various
14 organizations, from day-care centers to girl scout
15 organizations to rotary clubs or what have you, to
16 speak about the function of this office, and how we
17 respond and what plans do we have in place to respond
18 not only to a fixed nuclear facility accident, but to
19 other manmade and natural disasters.

20 Q. WHAT EDUCATIONAL ACTIVITIES DO YOU CONDUCT TO EDUCATE
21 THE PUBLIC WITH RESPECT TO ACTIONS TO TAKE IN THE
22 EVENT OF A NUCLEAR EMERGENCY AT CATAWBA?

23 A. Mecklenburg County and local emergency management
24 personnel will attend all public meetings following
25 exercises of the plan to provide the public with the
26 results of the exercise critiques. We will

1 respond to information and questions at those
2 particular sessions. In addition, we respond to
3 telephone requests from the public. On several
4 different occasions, we inform the public of exercise
5 dates and we provide the information with regard to
6 that. We speak to groups upon request with regard to
7 the planning activities and what we are doing to
8 protect the citizens of the community in the event of
9 an emergency situation at Catawba.

10 Q. ARE YOU FAMILIAR WITH DUKE POWER'S BROCHURE (AND
11 REVISED BROCHURE) FOR EPZ RESIDENTS?

12 A. Yes.

13 Q. DO YOU BELIEVE THAT THE REVISED BROCHURE PREPARED BY
14 DUKE POWER COMPANY ON WHAT TO DO IN A RADIOLOGICAL
15 EMERGENCY IS ADEQUATE FOR ITS INTENDED PURPOSE?

16 A. Yes. I believe the Duke brochure is adequate for its
17 intended purpose.

18 Q. DO YOU HAVE PRIOR EXPERIENCE WITH READING AND
19 REVIEWING EMERGENCY PLAN BROCHURES?

20 A. Yes, I have read and evaluated the brochure for the
21 McGuire Nuclear Station and have had input into that
22 through Duke Power Company. I also had input in the
23 Catawba brochure and in the school brochure which is
24 being distributed for the school children within and
25 near for the Catawba EPZ.

1 Q. WHEN YOU REVIEWED THE BROCHURES FOR BOTH THE MCGUIRE
2 AND CATAWBA STATIONS, WHAT PRECISELY WERE YOU LOOKING
3 FOR IN THIS REVIEW OR WHAT STANDARDS DID YOU REVIEW
4 THESE BROCHURES AGAINST?

5 A. The basic standard was to insure that the information
6 contained in the brochure was not in conflict with
7 State and County emergency plans.

8 Q. ARE YOU SATISFIED THAT THE CATAWBA EMERGENCY PLAN
9 REVISED BROCHURE FULLY ADDRESSES THE OBJECTIVES WHICH
10 YOU, AS THE ADMINISTRATIVE OFFICER OF EMERGENCY
11 PLANNING FOR MECKLENBURG COUNTY, WANT IT TO ADDRESS?

12 A. Yes. The information in it is not in conflict with
13 basic planning documents and procedures.

14 Q. IN YOUR OPINION, DOES THE PLAN PROVIDE REASONABLE
15 ASSURANCE THAT MEMBERS OF THE PUBLIC WOULD BE
16 ADEQUATELY PROTECTED IN THE EVENT OF A CATAWBA-
17 RELATED NUCLEAR EMERGENCY?

18 A. Based on the planning document and as I see the
19 planning document being implemented, if people will
20 observe the instructions that local government
21 provides to them via the emergency broadcasting
22 system, I think that the plan can be implemented with
23 little or no confusion and with little or no panic.
24 I think that if they listen to local government, then
25 that function can be carried out.

EPC 7 Testimony

1

2 Q. EMERGENCY PLANNING CONTENTION 7 ARGUES THAT THE
3 EXISTING EMERGENCY PLANS OF RELEVANT STATE AND LOCAL
4 AUTHORITIES DO NOT ADEQUATELY ADDRESS THE
5 PREPARATIONS THAT SHOULD BE MADE TO ACHIEVE EFFECTIVE
6 SHELTERING OR THE ACTIONS THAT PEOPLE SHOULD TAKE
7 WHEN ADVISED TO SEEK SHELTER. DO YOU HAVE ANY
8 COMMENT ON THAT ARGUMENT?

9 A. I think there are enough channels of information for
10 the public through the Duke Power Company brochure,
11 through the plan, through the activities and
12 procedures that are developed internally with the EOC
13 and through the Emergency Broadcast System. I don't
14 think our instructions would be a surprise to the
15 public and I don't think that panic would result
16 because we are not going to surprise them with
17 something that they should not be well aware of
18 beforehand. In this regard, the sheltering steps set
19 forth in Duke Power's brochure appear to be
20 consistent with measures I am familiar with.

21 Q. WHERE IS SHELTERING ADDRESSED IN THE MECKLENBURG
22 COUNTY EMERGENCY RESPONSE PLAN?

23 A. Section 3 of the plan.

1 TESTIMONY OF YORK COUNTY
2 (PHILLIP STEVEN THOMAS) ON
3 EMERGENCY PLANNING CONTENTIONS 1 AND 7

4 Background Information

5 Q. PLEASE STATE YOUR FULL NAME AND BUSINESS ADDRESS:

6 A. My name is Phillip Steven Thomas. My business
7 address is P.O. Box 66, York, South Carolina 29745.

8 Q. PLEASE STATE YOUR JOB TITLE.

9 A. I am Director of General Services for York County.

10 Q. PLEASE DESCRIBE YOUR RELEVANT EDUCATIONAL AND
11 PROFESSIONAL BACKGROUND AND EXPERIENCE.

12 A. See my resume which is attached.

13 Q. HAVE YOU ANY PRIOR EXPERIENCE IN THE AREA OF
14 EMERGENCY PLANNING?

15 A. Yes. From 1977 until I became Acting Director of
16 Emergency Preparedness in 1983, I served as Public
17 Information Officer for York County. In that
18 capacity, I participated in emergency mock exercises
19 and table top exercises. Also, I distributed
20 brochures from the State and Federal offices and was
21 the contact person with the media for the status of
22 emergencies.

23 Q. WHAT IS THE PURPOSE OF YOUR TESTIMONY?

24 A. The purpose of my testimony is to address the
25 emergency planning contentions as they relate to York
26 County's emergency planning efforts.

1 Q. HAVE YOU READ THE CAROLINA ENVIRONMENTAL STUDY
2 GROUP/PALMETTO ALLIANCE CONTENTIONS WHICH HAVE BEEN
3 ACCEPTED AS ISSUES IN THIS PROCEEDING?

4 A. Yes.

5 Q. BY WAY OF BACKGROUND, WOULD YOU DESCRIBE THE OVERALL
6 FORM OF COUNTY GOVERNMENT OF YORK COUNTY?

7 A. York County has a county manager form of government.
8 There are approximately 15 departments in the County
9 government.

10 Q. WHAT DEPARTMENT ARE YOU IN?

11 A. General Services.

12 Q. WHAT DOES YOUR DEPARTMENT OR GROUP HAVE TO DO WITH
13 EMERGENCY PLANNING?

14 A. The Municipal County Emergency Preparedness Agency is
15 a division of the Department of General Services.

16 Q. IS COORDINATION OF EMERGENCY PLANNING YOUR USUAL JOB?

17 A. No, it is not. However, the Director of Emergency
18 Preparedness reports to me so I am generally familiar
19 with York County's emergency planning efforts. Late
20 last year the director of the Municipal County
21 Emergency Preparedness Agency became seriously ill.
22 Due to that illness, he became incapacitated and was
23 unable to fulfill his normal responsibilities and
24 duties, which include a detailed knowledge of York

1 County's emergency planning efforts. One of my
2 responsibilities was to step in and fulfill the
3 director's duties.

4 Q. DOES YORK COUNTY HAVE A SPECIFIC RADIOLOGICAL
5 EMERGENCY PLAN FOR RESPONDING TO AN EMERGENCY AT
6 CATAWBA?

7 A. Yes. Annex Q in the York County Emergency Operations
8 Plan would be used to respond to a radiological
9 emergency at Catawba.

10 Q. DID YOU PREPARE THIS PLAN?

11 A. No, it was developed by the Director of Emergency
12 Preparedness.

13 Q. DID YOU SUPERVISE THIS INDIVIDUAL IN THE PREPARATION
14 OF THE PLAN?

15 A. Yes. I supervise the Department of General Services
16 of which the division of Emergency Preparedness is a
17 part.

18 Q. SINCE THE PREPARATION OF THE PLAN HAVE YOU BECOME
19 FAMILIAR WITH IT?

20 A. Yes, as I noted, since the illness of the Director of
21 Emergency Preparedness, I have assumed his duties.
22 This has required me to obtain a first-hand knowledge
23 of the plan.

24 Q. HOW DID YOU OBTAIN SUCH KNOWLEDGE OF THE PLAN?

1 A. I read the plan and met with all relevant individuals
2 and service entities to assure that I fully
3 understood their role and how I was to coordinate
4 their efforts.

5 Q. ARE YOU THE YORK COUNTY OFFICIAL RESPONSIBLE FOR THE
6 PLAN?

7 A. At present, yes.

8 Q. PLEASE DESCRIBE GENERALLY YOUR ROLE IN OVERSEEING THE
9 READINESS OF THE VARIOUS COUNTY DEPARTMENTS AND
10 AGENCIES THAT ARE INVOLVED IN RADIOLOGICAL EMERGENCY
11 RESPONSE IN YORK COUNTY.

12 A. I see my role as coordinating all of the separate
13 entities that are involved locally through the
14 different service agencies.

15 Q. WOULD YOU BRIEFLY DESCRIBE THE PLAN?

16 A. Annex Q, as our overall plan does, addresses all the
17 different components that would have to be addressed
18 in any type of emergency - natural or manmade. It
19 addresses all the different components of a nuclear
20 incident at Catawba and it breaks them down into such
21 areas as communications, security, transportation,
22 emergency medical services, and emergency welfare
23 services. All of the different components that you
24 find outside the nuclear situation are all brought
25 together in Annex Q in a nuclear situation.

1 Q. IS THERE ANYTHING IN ANNEX Q WHICH IS SPECIFIC TO
2 RADIOLOGICAL EMERGENCY RESPONSE AND THEREFORE IS NOT
3 FOUND GENERALLY IN OTHER KINDS OF EMERGENCY RESPONSE?

4 A. There are numerous items that are unique to Annex Q,
5 such as monitoring, decontamination and sheltering
6 (identified in specific shelter sites). Evacuation
7 routes, maps, charts, and graphs that relate to a
8 specific nuclear incident would also be unique to
9 Annex Q and not the other parts the of overall EOP.

10 Q. IN YOUR OPINION, DOES THE YORK COUNTY PLAN PROVIDE
11 REASONABLE ASSURANCE THAT MEMBERS OF THE PUBLIC WILL
12 BE ADEQUATELY PROTECTED IN THE EVENT OF A CATAWBA-
13 RELATED NUCLEAR EMERGENCY?

14 A. Yes.

15 Q. IS THERE A SECTION OF THE YORK COUNTY PLAN THAT
16 COVERS THE ISSUES RAISED BY EMERGENCY PLANNING
17 CONTENTIONS 1 AND 7, WHICH DEAL WITH THE ADEQUACY OF
18 THE PUBLIC INFORMATION ON EMERGENCY RESPONSE PROVIDED
19 BY APPLICANTS AND BY COUNTY GOVERNMENTS?

20 A. Yes. Annex D (York EOP), Annex Q, Appendix 2.

21 EPC 1 Testimony

22 Q. WITH REGARD TO EMERGENCY PLANNING CONTENTION 1, WHAT
23 STEPS HAS YORK COUNTY TAKEN TO EDUCATE THE PUBLIC SO
24 AS TO ASSURE APPROPRIATE RESPONSES TO NOTIFICATION
25 PROCEDURES?

1 A. Beyond normal media coverage of a county official
2 and/or department being involved in anything, which
3 would be in the local newspaper, there was quite a
4 bit of education at the school age level by our
5 former director prior to his becoming ill. Other
6 public education efforts that the county has been
7 involved in would be through the advisory board.
8 This is made up of several different community
9 leaders from around different parts of the county who
10 attempt to educate other groups, spread the word, so
11 to speak, as far as what's taking place with the
12 emergency planning and the Catawba plant itself. I
13 see this as a general kind of educational process.
14 In addition to those items, officials of the York
15 County government and I have participated in a public
16 hearing following the emergency planning exercise,
17 and an open house at the Catawba plant where the
18 public has been invited in to become aware of what's
19 taking place there. York County was represented at
20 this open house. Prior to the exercise, there were
21 thirteen different meetings held for the public to
22 come and familiarize themselves and ask questions
23 about what was taking place. The county was
24 represented at those meetings.

25 Q. WILL THE COUNTY CONTINUE SUCH EDUCATION EFFORTS?

26 A. Yes.

1 Q. ARE YOU FAMILIAR WITH APPLICANTS' BROCHURE?

2 A. Yes.

3 Q. DO YOU HAVE AN OPINION AS TO ITS ADEQUACY IN ASSURING
4 APPROPRIATE REPOSSES?

5 A. In my opinion it seems to be adequate.

6 EPC 7 Testimony

7 Q. EMERGENCY PLANNING CONTENTION 7 ALLEGES THAT EXISTING
8 EMERGENCY PLANS DO NOT ADEQUATELY ADDRESS THE
9 PREPARATIONS THAT SHOULD BE TAKEN "TO ACHIEVE
10 EFFECTIVE SHELTERING," NOR THE SPECIFIC ACTIONS THAT
11 PEOPLE SHOULD TAKE WHEN ADVISED TO SEEK SHELTER. DO
12 YOU AGREE WITH THIS ARGUMENT?

13 A. No. It would appear to me that people have been
14 adequately advised on these matters through the Luke
15 Power brochure and through the county's efforts,
16 which include participation in public information
17 meetings and open houses at the Catawba plant. In
18 addition, if a radiological emergency occurred, the
19 EBS system would be used to reemphasize recommended
20 action for the public.

BACKGROUND INFORMATION

R. M. GLOVER

Educational Background

B. S. Nuclear Engineering - University of Virginia - 1975

Company Experience

Joined Company June 9, 1975 - Nuclear Fuels Services

Jr. Engineer	June 1975	- December 1976
Assistant Engineer	January 1977	- June 1979
Associate Engineer	June 1979	- October 1980
Emergency Response Coordinator	October 1980	- Present

In Nuclear Fuels Service, Glover was involved in spent fuel transportation and storage, contracting with agencies for fabrication services and enrichment, special nuclear material accountability, in computer analysis of fuel cycle design, and in following heat load on spent fuel pools versus cooling capabilities. Glover was the lead individual on the Company's long-term spent fuel storage task force.

In Emergency Planning, Glover has coordinated the development of the Company's Response Program at all three stations and has ensured compliance with developing regulations in this area. He directed the development and performance of four drills and seven exercises since 1980 and has maintained the corporate plans as the organization and facilities have evolved. He has coordinated the installation of three siren systems (with periodic maintenance), upgraded meteorology systems and developed plant specific transport and diffusion computer models, contracted for and provided input into each station's evacuation time study, coordinated the development of and revisions to each station's annual public information brochure, and has worked closely with Federal, State, and Local Officials responsible for the off-site planning effort.

PHILLIP F. CARTER
2300 Vineyard Lane
Charlotte, NC 28210
Home: (704) 553-1280
Business: (704) 373-2849

EXPERIENCE

Ten years public relations experience with large and medium size corporations. Direct responsibilities included all phases of media and community relations, the supervision of internal and external publications, planning and coordination of special events such as stockholders' meetings, management conferences and press conferences. Excellent communications skills and experience in writing news, features, speeches and scripts, and working with suppliers and agencies.

PROFESSIONAL EMPLOYMENT 1983-PRESENT

Director, Community Relations Duke Power Company

Responsible for the planning and managing of communications programs for plant communities, regulatory and financial groups, educational audiences and general customer groups; and for monitoring and evaluating communications efforts to ensure consistent and accurate information exchange with these groups.

1980-1983

Manager, Public Relations Monsanto Industrial Chemicals Company

Was charged with public relations responsibilities for this \$1.6 billion operating unit of Monsanto Company. Primary duties included handling the unit's responses to major public issues, coordinating media relations and advising management on issues and trends relating to Monsanto and the chemical industry. Additional duties included P. R. response to emergencies in the areas of pollution, plant and worker safety, hazardous waste and transportation accidents, plus development of product publicity for the unit's Electronics Division. Other responsibilities involved the production of position and background documents on issues which have potential negative impact on the organization, and the implementation of strategy to effectively communicate the company's position on issues to the media and public.

1979-1980

Public Relations Representative Monsanto Corporate Public Relations Department

Produced news and feature stories relating to the company's chemical awareness program. Handled press inquiries and planned and coordinated special events including management conferences and seminars. Other duties included assisting in production of corporate annual report and the production of major video and slide programs.

1974-1979

Public Relations Officer
Citizens & Southern National Bank of S.C.

Directed total public relations activities for statewide banking organization. Duties involved the coordination of all media relations, external and internal publications including company employee newspaper and customer newsletter, and audio visual production. Other duties included planning special events, such as stockholders meeting, financial analyst meetings and opening of new branch offices.

EDUCATION

University of South Carolina.
B.A. Journalism (advertising/public relations) - 1974

Midlands College
54 hours in Business Administration

Numerous management and professional courses by Monsanto and PRSA/NYU.

PERSONAL

Born: April 28, 1948
Married, one child, age 4.
Served in the U.S. Army, 1969-1971, Honorable Discharge. Hobbies and interests include photography and scuba (certified diver).

MARY L. BIRCH

ADDRESS

Nuclear Production Department
Duke Power Company
Post Office Box 53189
Charlotte, North Carolina 28242

BUSINESS TELEPHONE: (704) 373-4504

PRESENT POSITION

The SYSTEM ENGINEER plans, schedules, and directs the activities of the Rad-waste Engineering Section in defining, developing, implementing, and evaluating the effectiveness of radioactive waste management programs at all nuclear stations.

WORK EXPERIENCE

1976-1982 Health Physicist, Radioactive Waste Management Function,
Duke Power Company
1974-1976 Health Physicist, Programs and Procedures Function,
Duke Power Company
1972-1974 Assistant Health Physicist, Duke Power Company
1968-1972 Chemist, State of Wisconsin Radiation Protection Section

Certified by the American Board of Health Physics
Registered Professional Engineer

EDUCATION

MS 1974 University of Wisconsin (Radiological Sciences)
BS 1968 University of Wisconsin (Chemistry)

PROFESSIONAL AND TECHNICAL SOCIETY MEMBERSHIP

Health Physics Society
North Carolina Health Physics Society
Piedmont Carolinas Section of ANS
Women Executives
Society of Women Engineers
Nuclear Energy Women
Charlotte Business and Professional Women's Club

CURRENT COMMITTEE ACTIVITIES

AIF Subcommittee on Radiation Education
AIF Subcommittee on Low Level Waste Solidification
Utility Nuclear Waste Management Group (UNWVG) Low Level Waste Working Group
National Low-Level Waste Program Review Committee

TECHNICAL PAPERS AND REPORTS

Post-IMI Environmental Monitoring Requirements, AIF Conference on Environmental Regulation of the Nuclear Industry: A New Decade, May 1980.

Nuclear Station Post-Accident Sampling Systems, NC Health Physics Society, May 1981.

Emphasis on the Management in Low-Level Radioactive Waste Management, ANS Tenth Biennial Conference on Reactor Operating Experience, August 1981.

NSAC 23, Nuclear Station Post-Accident Liquid Sampling Systems, developed by Duke Power Company, January 1981, Nuclear Safety Analysis Center, Electric Power Research Institute.

Nuclear Power Facility Implementation of 10CFR61, LIS 1983 Fall Conference October 27, 1983.

PERSONAL DATA SHEET

EPC 1 and 7
Duckworth Attachment

SUSANNA V. DUCKWORTH
131 Withers
Winthrop College
Rock Hill, S. C. 29733

Telephone (803) 323-2151, Ext. 31

Birthplace: Waco, Texas

Birthdate: July 16, 1944

Degrees

- B. A. 1966 Baylor University, Waco, Texas
M.Ed. 1969 University of North Carolina at Chapel Hill
Major: Special Education
Minor: Psychology
Ph. D. 1971 University of North Carolina at Chapel Hill
Major: Special Education
Minor: Psychology

Training Experience

Speech and Hearing Therapy, 1964-66

Clinical practice with speech handicapped youngsters
Public school practice teaching with speech handicapped
Clinical practice with speech handicapped adults
Pre-school articulation testing with Head Start project

Mental Retardation, 1968-71

Master's practicum with Intermediate EMH Class
Doctoral Internship teaching Education 65 (undergraduate methods class
in Special Education) at UNC-CH
Remedial clinic for Intermediate EMR Classes at UNC-CH

Public School Teaching Experience

Charlotte-Mecklenburg Board of Education, Charlotte, N.C.
Semi-professional Team Aide, High School EMH Class, 1966
Professional Speech and Hearing Therapist, 1967-68

Past Administrative, Supervisory, and other Related Experiences at
University of North Carolina - Chapel Hill

Lecturer, 1971-72
Supervisor, Special Education Clinic, 1971
Cumberland County Schools, Fayetteville, N. C., 1969
Consultant to Head Start Project, Deep Creek Center

Workshops: Cumberland County Schools
Title III Learning Disabilities Project,
"Focus on Phonetics" - Spring, 1972
Liason Coordinator, Bimodal Instructional Program
Durham and Orange County Schools
Consultant, Guilford County Schools, Title III Project on Values, 1971-72
Coordinator, Master's Practicum and undergraduate student teaching, Special
Education Department, 1971-72
Presenter, North Carolina Council for Exceptional Children
Bimodal Instructional Project, etc., Spring, 1972

WINTHROP COLLEGE EXPERIENCE

Assistant Professor,
Temporary, 1972-74
Probationary, 1974-78
Tenured 1978
Associate Professor,
Promoted, 1981

Professional Activities

College

Member, School Psychology Committee, 1972-74, 1981-
Member, Committee for Inauguration of President Vail, 1974
Member, Knowledge Estimation Panel, 1975, National Teacher's Examination
S. C. NTE Validation, Columbia, S. C.
Member, Honors Council, appointed 1978-81
Chairperson, Academic Conduct, appointed 1979-
Member, Coordinating Committee for the Teacher Education Program (CCTEP),
elected 1980-83
Coordinator, Presentation of Special Education Honors Program to Board
of Visitors, Fall, 1979 and 1980
Member, Task Force on General Education, 1981-83

School of Education

Chairperson, School of Education Graduate Elections Committee, 1980-81
Member, School of Education Student Advisory Committee, 1977-79
Member, Graduate Executive Committee, 1977-78
Member, Undergraduate Executive Committee, 1978-80
Secretary, School of Education Faculty Assembly and Graduate Committee
1974-78
Visitation Committee, Charlotte-Mecklenburg Board of Education, Site Visit
Student Teaching Panel, Spring, 1976
Visitation Committee, Gaston County Board of Education, Site Visit
Student Teaching Panel, Fall, 1976 and Spring, 1980
Coordinator, Byrnes Auditorium Activities, Inservice, 1979
Member, Dean's Advisory Committee on Student Teaching, 1982
Chairperson/Vice Chairperson, Task Force II (Professional), 1982-
Member, Undergraduate Council of Coordinators, 1982-

Special Education

Faculty Advisor, SED Undergraduate and Graduate students, 1974-
Faculty Advisor, Winthrop College Student Chapter 595 of CEC, 1974-78
Student CEC Executive Committee, 1974-78
Member, Special Education Graduate Curriculum Committee, 1976-78
Author, Special Education section of School of Education Publicity
Pamphlet, 1974

Co-Author, Special Education Honors Program and Special Education
450 Honors Seminar
Coordinator, MR Student Teaching, 1973-78
Coordinator, Graduate Field-Based Program - Metro Center, Charlotte,
N. C., 1975-77
Coordinator, Graduate Practicum, 1974-
Coordinator, Graduate MR (EMH, TMH) Program, 1975-
Coordinator, Graduate Curriculum Committee and Program Development, 1978-
Coordinator, Search Committee, Special Education, 1978-
(for three faculty positions)
Visitation Committee - Sacred Heart Special Education Program, Spring, 1976
Visitation Committee - Charlotte Rehabilitation Hospital, Spring, 1975
Visitation - Charlotte Area Consortium, 1978-
Participant, Workshop on Evaluation, Dr. Joseph Renzulli, Coordinator,
Spring, 1976
Participant, Development of written and visual modules on "Critique Writing"
for SED, May, 1978
Acting Chairperson, Spring Semester, 1981
Coordinator, Undergraduate Special Education Program Committee, Two Year
Appointment, 1982-84

Organizations

Member, Council for Exceptional Children
Member, South Carolina Association for College Teacher Educators
Past member, American Association of Mental Deficiency
Member, Sigma Alpha Eta - National Speech and Hearing Honorary Society
Member, Kappa Kappa Gamma Sorority
Member, Phi Delta Kappa
Member, Kappa Delta Pi
Member, Association for Supervision and Curriculum Development
Member, South Carolina Association of Teacher Educators
Member, Omicron Delta Kappa, National Leadership Fraternity
Member, Delta Kappa Gamma

Publications

Calhoun, M. L., Duckworth, S.V. Panyan, M., & Smith, R. Implementing
IEPs in regular and resource classrooms: Inservice training manual.
University Affiliated Facilities Publication, September, 1979.
Duckworth, S.V., The effects of selected visual discrimination conditions
on young impulsive retardates. Unpublished doctoral dissertation.
University of North Carolina, 1971.
Duckworth, S.V., Hall, L.E., & Sadler, J.C. Identification of pre-
vocational competencies of the educable mentally handicapped. Winthrop
College Competency Testing Project Monograph, 1980.
Duckworth, S.V., Ragland, G.G., Somerfeld, R.E. & Wyne, M.D.
Modification of conceptual impulsivity in retarded children. American
Journal of Mental Deficiency, 1974, 79(1), 59-63.
Mitchell, M.M., & Duckworth, S.V., Bimodal instructional program:
educational evaluation pamphlet, October, 1972.
Duckworth, S.V. A process for teacher education program review rationale--
a call for reform. The Journal South Carolina Association Colleges for
Teacher Education, 1982-83, 7, 19-20.

Presentations

- Presenter, North Carolina Council for Exceptional Children Convention at Chapel Hill, N. C., April, 1972.
Topic: "Bimodal Instruction Program: The Role of the Coordinator"
- Guest Lecturer, EDU 381, M.T. Littlejohn, Professor, Fall, 1972
Topic: "Mental Retardation"
- Presenter, Carolina Community Services, Headstart Workshop, March, 1974
Topic: "Language Arts for the Mentally Handicapped"
- Presenter, Headstart Workshop, Fall, 1976, Columbia, S. C.
Content on Trainable Mentally Handicapped
- Presenter, Headstart Workshop, Fall, 1976, Rock Hill, S. C.
Content on Trainable Mentally Handicapped
- Guest Lecturer, Center for Human Development, Charlotte, N.C., Fall, 1976
Topic: "P. L. 94-142"
- Presenter, Winthrop College, Special Education Week-End Workshop, December, 1976
Topic: "Needs Assessment for Severely Handicapped"
- Guest Lecturer, SED 556, M. F. Hawisher, Professor, Spring, 1977, Fall, 1978, Spring, 1979
- Guest Lecturer, Kappa Delta Pi, Spring, 1979
Topic: "Exceptional Children"
- Guest Lecturer, SED Methods, Spring, 1979
Topic: "IEP Development (video tape)"
- Speaker, South Carolina Council for Exceptional Children Conference, Greenville, S. C., March, 1977
Topic: "Graduate Program for the Teachers of Trainable Mentally Retarded and Multihandicapped"
- Presenter and program coordinator, Council for Exceptional Children, Kansas City, Mo., Spring, 1978
Topic: "Instructional Programming for the Severely Multihandicapped"
- Presenter, Southeastern American Association on Mental Deficiency (SEAAMD), November, 1978
- Presenter, IEP Field Testing Workshop, May, 1979, Winthrop College
- Presenter, IEP Implementation Workshops, September 4-6, 11-12, 1979, Joynes Center, Winthrop College
- Presenter, Council for Exceptional Children, Philadelphia, Pa., Spring, 1980
Topic: "Determining Pre-vocational Competencies of the Educable Mentally Handicapped"
- Presenter, Individually Guided Education Conference, Columbia, S. C. Summer, 1980
Topic: "Implementing Individual Education Plans for Exceptional Children in the Regular Classroom"
- Presenter, IEP Implementing Workshop, Gaffney, S. C., January, 1980

Guest Lecturer, SED 681, Spring, 1980, North, S. C.
Topic: "Mental Retardation"

Presenter, Council for Exceptional Children, Houston, Texas, Spring, 1982
Topic: "Reducing Anxiety in Student Teachers"

Consultation

Consultant, Language Arts Teacher Corps., Region V., Lancaster, S. C.,
1972-73
Consultant, Language Arts Headstart, Rock Hill, S. C., 1974
Consultant, Program Evaluator EMH Resource and TMH self-contained classes,
York School District #1, May, 1975
Consultant, Language Arts, Fairfield County, 1975-76
Consultant, Orthopedically Handicapped, York School District #1, 1976
Consultant, Program Development, Metro Center, Charlotte, N. C., 1975-
Consultant, Department of Mental Retardation, Needs Assessment, Spring,
1977, Greenwood, S. C. and Columbia, S. C. (two)
Consultant, Program Development, Union County Developmental Disabilities
Center, 1977-78
Consultant, South Carolina UAF IEP project, 1978-
Consultant, Winthrop College Competency Testing Project - Module
Development, May, 1979
Consultant, The Exceptional Child in the Regular Class, Elloree, S. C.,
October, 1981
Consultant, Duke Power Company, February, 1983

Workshops and Conferences Attended

Vocational Rehabilitation Workshop - Visually Handicapped, Spring, 1973
South Carolina Educational TV Conference Workshop, Fall, 1975
Renzulli Workshop, Evaluation, Spring, 1976
Queen's College Workshop, Values, Fall, 1975
Central Piedmont Community College, Perceptual Motor Workshop - Fall, 1975
South Carolina Council for Exceptional Children, Charlotte, N. C. -
Spring, 1977
North Carolina Council for Exceptional Children, Charlotte, N. C. -
Fall, 1976, 1977, 1980
Winthrop College, Week-End Workshops, Fall, 1975-77

Civic

Member/participant of the Myers Park Traditional School Parent/Teacher's
Association, 1972-78
Member/participant, Kappa Kappa Gamma Philanthropic Activities, 1978
Member, United Cerebral Palsy Parents Council, Charlotte, N. C., 1981-
Chairperson, Professional Services Sub-Committee of United Cerebral Palsy
Parents Council, 1981-

Grants

Author, U. S. Office of Education proposal, Metro Center, Charlotte, N.C.,
Fall, 1977

Honors

The World Who's Who of Women in Education
Kappa Delta Pi Appreciation Certificate for financial and
continued support. May, 1983.

June, 1983

JESSE THOMAS PUGH, III
713A Grove Avenue
Raleigh, North Carolina 27606
Home (919) 851-3467
Office (919) 733-3867

PERSONAL

Date of Birth: November 19, 1947 Place of Birth:
Asheboro, North Carolina Age: 36
Height: 5'5" Weight: 150 lbs. Health: Excellent
Married: September 1, 1973, to Sandra Strader of
Caswell County, North Carolina

EDUCATION
1961-1965

ASHEBORO HIGH SCHOOL
Asheboro, North Carolina
Degree: College Prep.

Clubs and Organizations
-Business Manager for Annual, 1965
-Treasurer for Future Teachers, 1965
-Drama Club, Journalism Club
-Quill and Scroll Club, Wrestling Team

1/81-Present

NORTH CAROLINA STATE UNIVERSITY
Raleigh, North Carolina
Enrolled in Masters of Public Administration Program,
School of Political Science and Public Administration

Spring 1982

NORTH CAROLINA STATE UNIVERSITY
Raleigh, North Carolina
Computer Applications Certificate Program
MPA, School of Political Science

7/65-5/69

BS in Textile Technology
NORTH CAROLINA STATE UNIVERSITY
Raleigh, North Carolina
Clubs and Organization: Sigma Nu Fraternity
(House Manager 1966-67)
Honors: Dean's List Student last three semesters

Fall 1980

GOVERNMENT EXECUTIVE INSTITUTE
University of North Carolina
Chapel Hill, North Carolina

August 1967

NORTH CAROLINA OUTWARD BOUND SCHOOL
Morganton, North Carolina

MILITARY
6/69-4/72

UNITED STATES MARINE CORPS
Honorably Discharged
Highest Rank: First Lt.
Occupations: Supply Officer --responsible for ordering,
controlling, stocking, and warehousing all supplies for
a Battalion; Fiscal Office -- responsible for budgeting
and accounting for all Battalion funds.

EMPLOYMENT
5/82-present

Division Director, North Carolina Department of Crime Control and Public Safety, Division of Emergency Management, Raleigh, North Carolina
Responsible for the State of North Carolina emergency response and planning. This includes the coordination of all emergency response activities of the 17 State agencies. Serve as State Coordinating Officer and Governor's Authorized Representative in all disaster related matters. In addition to these duties, when I was promoted to Director the Deputy Director position was abolished, and I retained all the duties and responsibilities of that position.

5/79-5/82

Assistant Director, for same division, promoted to Deputy Director May 1980. Responsible for daily operations of the Division. Supervise 53 employees, administer budget of approximately \$2 million, managed grant program to local governments, represent the State in business transactions and in meetings with local and federal government.

7/78-5/79

Area Coordinator for same division, then called Division of Civil Preparedness.
Office located in Asheboro, North Carolina.
Responsible for a 15-county area, working with local coordinators and governmental officials in preparing plans to prevent and/or respond to disasters, both natural and man-made. Also responsible for arranging specialized training for local volunteers and governmental employees.

1/73-7/78

Funeral Director/Manager of Pugh Funeral Home, Inc., Asheboro, North Carolina
Responsible for counseling with families, arrangement of details of Funeral Services, assisting in filing of benefits with Social Security, Veterans Administration, and other agencies. Also responsible for normal office routine, upkeep of building and grounds, and normal maintenance.

10/72-12/72

Shift Supervisor, Textured Fibres, Inc., Liberty, North Carolina
Responsible for scheduling job assignments, maintaining production records, achieving consistent acceptable production levels, and maintaining morale.

CLUBS AND ORGANIZATIONS

Current

Member of North Carolina State Alumni Association
Member of North Carolina State Wolfpack Club
Member of Wake County Democratic Mens Club

Former

Member of Asheboro Jaycees, Treasurer in 1974
Member of Randolph Asheboro YMCA, serving on
program committee, nominating committee, Board
of Directors, and Secretary in 1978
Director of Randleman Heart Fund in 1977
Worker in United Appeal

EPC 1 and 7
Lunsford Attachment

PAUL R. LUNSFORD, Sr
Chief Area Coordinator, Emergency Preparedness Division,
Office of the Adjutant General, State of South Carolina

Bachelor of Science, Clemson College, 1950
Master of Science, Shippensburg State College, PA, 1972

US Army: Advanced Infantry Officers Course, 1957
Command and General Staff College, 1962
War College, 1972
Italian Army War College, 1966

Regular Army Officer (Infantry) 1950-1980
Lieutenant 1950-54
Captain 1954-61
Major 1961-65
Lieutenant Colonel 1965-70
Colonel 1970-80

Infantry Platoon Leader, Korea 1950-51
Infantry Company Commander, Europe & USA 1954-56
Staff & Faculty, Infantry School, 1958-60
Staff Officer, US Military Mission, Saudi Arabia 1962-63
Executive Officer, Air Assault Battalion, USA 1963-64
Student, Defense Language Institute 1965
Staff Officer, Headquarters, Allied Land Forces Southern Europe, Italy 1966-68
Parachute Battalion Commander, Viet Nam 1969
Training Brigade Commander, USA 1970-71
Staff & Faculty, US Army War College 1972-80 (Chief of Staff 1979-80)

Emergency Preparedness Coordinator I & II, SCEPD 1980-82
Chief, Plans Section, SCEPD 1982-83
Chief Area Coordinator, SCEPD 1983-Present

Employment Address: Emergency Preparedness Division, OTAG
1429 Senate Street
Columbia, S.C. 29201

RESUME

Name

William M. McSwain

Address

28 D Landmark Drive, Columbia, S. C. 29210

Phone

Office: 803-758-2826

Home: 803-772-3003

Personal Data

Age: 32

DOB: November 21, 1951

Marital Status: Married

Height: 215

Health: Excellent

Education

1967-70 A. C. Flora High School, Columbia, S. C.

1970-72 Midlands Technical College, Columbia, S. C.

1972 University of South Carolina

Career Education Courses

1975 Civil Defense USA

1976 Civil Defense Management

1977 Nuclear Civil Protection Planning

1981 Civil Defense Director/Coordinator

1981 Introduction to Radiological Monitoring

1982 Radiological Defense Officer

1982 Radiological Emergency Planning

1983 Career Development Phase I

1984 Exercise Design Course

Military Experience

1970-78 Operations NCO in the US Army Reserve
(360th CA Brigade) Columbia, S. C.

1982-present Disaster Preparedness Specialist - SC Air National Guard
Columbia, S. C.

McSwain Resume (continued)

Employment Record

- 1981-present S.C. Emergency Preparedness Division (Exercise/Training Officer since March 1984)
Previously Area Coordinator responsible for development of plans and procedures for York County, Catawba Nuclear Station/S.C. Site Specific Plan coordinated with Federal, State, Local Government, Utilities and adjoining States in the preparation of the Catawba Plans.
- 1980-81 Tape & Label Engineering - St. Petersburg, Florida
Traveled South Carolina and Georgia representing this firm.
- 1980 Sixteen-Ten Corporation, Columbia, S. C.
Managed a restaurant in Columbia, S. C.
- 1978-80 MDC, Inc., Columbia, S. C.
Co/Owner and General Manager of three furniture stores.
- 1974-78 S.C. Disaster Preparedness Agency
Developed plans and procedures for State and Local Government for use in emergency situations. Coordinated with Federal, State and Local governments in development of preparedness programs.

References

Available upon request

EPC 1 and 7
Phillips Attachment

RESUME OF BOB E. PHILLIPS

I am a lifelong resident of Gaston County. I completed my GED (General Equivalency Degree?) in 1967. In 1972, I received an Associate of Arts Degree from Gaston College. In 1975, I received the advanced Law Enforcement Certificate from the Criminal Justice Training and Standards Council. I am also a certified instructor through the criminal Justice Training and Standards Council.

Relevant courses taken include:

			<u>Credit Hours</u>
February	1966	Introduction to Police Science	160 hrs.
February	1968	First Aid	12 hrs.
March	1969	Riot Control	116 hrs.
February	1970	Supervision of Law Enforcement Personnel	120 hrs.
February	1970	Radiological Monitoring	16 hrs.
April	1970	Ambulance Attendant	28 hrs.
January	1971	Disaster Aid	8 hrs.
January	1971	Defensive Driving	8 hrs.
June	1972	Police Traffic Supervision	105 hrs.
October	1972	Radar Speed Operation	8 hrs.
November	1970	Supervision of Police Personnel	80 hrs.
April	1974	Instructor Training	40 hrs.
July	1974	Firearms Instructor Training	48 hrs.
March	1975	Defensive Driving	8 hrs.
June	1975	First Aid MM	8 hrs.
February	1976	Public Development Seminar	40 hrs.
July	1976	S & W Armorers' School	80 hrs.
March	1977	Defensive Driving	8 hrs.
July	1977	Firearms Instructor Training	48 hrs.
September	1977	Hostage Situations	4 hrs.
July	1978	Hazardous Devices School	120 hrs.
October	1978	Hazardous Materials Seminar	8 hrs.
September	1978	Traffic Records	6 hrs.
April	1979	Law Enforcement & The Fuel Shortage	11 hrs.
May	1979	Protection for VIPs	16 hrs.
September	1979	Police Traffic Records	6 hrs.
March	1980	Plans & Operations Course	40 hrs.
May	1980	Emergency Vehicle Operations	24 hrs.
February	1981	Civil Defense USA	
April	1981	Radiological Emergency Response	80 hrs.
June	1981	Plans & Operation	40 hrs.
August	1981	FEMA Phase 1A	40 hrs.
August	1982	FEMA Phase 1B	
	1983	Numerous Emergency Management Courses	

RESUME

PERSONAL

DATA: Lewis Wayne Broome Age: 39 Date of Birth: July 16, 1944
7209 Twillingate Drive Charlotte, North Carolina 28215
Telephone: (704) 568-2171 (Home) 374-2412 (business)
Marital Status: Divorced - Ms. Pamela H. Broome
One Child: Pamela Kay Broome Age: 7
Health: Good

EDUCATIONAL

BACKGROUND: High School: Graduated from Central Davidson High School
Lexington, North Carolina - 1963
College: Central Piedmont Community College
Charlotte, North Carolina
Associate Degree Business Management - 1971
Belmont Abbey College
Belmont, North Carolina
B. A. Degree Sociology - 1977

WORK

EXPERIENCE: 7/79-Current: Charlotte-Mecklenburg Emergency Management Office
951 South Independence Boulevard, Room 655
Charlotte, North Carolina 28202
Title: Administrative Officer I/Operations Officer
Duties: Inspect shelters that are part of National Shelter
System; administer surplus property program;
coordinate multi-agency emergency response; develop
plans and procedures to meet federal and state
requirements for all hazards; respond to media
concerns upon request; speak to various civic,
church, and business organizations on disaster
planning; help with budget preparation decisions.

WORK

EXPERIENCE: 9/77-7/79: Mecklenburg County Department of Social Services
(Continued) 301 Billingsley Road
Charlotte, North Carolina 28211

Title: AFDC Applications Caseworker

Duties: Interviewed and investigated clients for public assistance programs. Process involved numerous contacts with elements of the public and private sector.

1975-1977: Full-time student at Belmont Abbey College

8/72-8/75: Pound and Moore Company
1447 South Tryon Street
Charlotte, North Carolina

Title: Salesman/Stock Room Supervisor

Duties: General sales of office supplies and furniture; supervised stock room staff and procedures for filling orders

10/67-7/72: Celanese Corporation
Barclay Down Drive
Charlotte, North Carolina

Title: Stationery Clerk

Duties: Responsible for filling orders of basic stationery items; worked in area of forms control; assisted in budget process; responsible for ordering basic stationery items.

MILITARY
STATUS:

1963-1967: Served in the U.S. Navy - Honorable discharge in 1967

Currently serving in U.S. Navy Reserve. Obligation consists of two weeks each year of active duty and one weekend each month. Active duty is normally in the months of either June, July, or August.

SPECIAL
TRAINING:

See attached sheet titled, "Business, Trade, or Military Training".

CAREER
GOALS:

To develop and maintain the necessary skills and training to ensure that the plans and procedures for proper response to major disasters are in place, and that the various departments, agencies, and personnel are in unison for response to major disasters. To seek fulfillment of my personal goals through a good employment environment that combines good pay and job challenge.

REFERENCES: Kenneth D. Williams (Retired; former Emergency Management Director)
215 Circle Avenue, Charlotte, NC 28207
Telephone: 374-0819

Edwin H. Capin, Director
Mecklenburg County Department of Social Services
301 Billingsley Road, Charlotte, NC 28211
Telephone: 374-3020

Ben Judkins, Chairman
Department of Sociology
Belmont Abbey College, Belmont, NC 28012
Telephone: 825-3711

Andy Clark, Manager
FCX Farm and Garden Supplies
6915 Lawyers Road, Charlotte, NC 28212

Walker Busby (Self-employed accountant)
1005 Norwich Road, Charlotte, NC 28212
Telephone: 537-4058

BUSINESS, TRADE, OR MILITARY TRAINING

<u>Date</u>	<u>Title of Course/Sponsor</u>	<u>No. of Hours</u>
09/79	Radiological Monitoring Instructor's Course - Staff College	24
09/79	Civil Defense U.S.A. - Staff College	10
10/79	Introduction to Radiological Monitoring - Staff College	15
03/80	Civil Defense Director/Coordinator - Staff College	15
04/80	Municipal Supervisory Certification Program - City of Charlotte	26.5
03/80	Plans and Operations Workshop - N.C. State Government	12
06/80	Career Development Course, Phase I - Federal Government	37.5
06/81	Plans and Operations Workshop - N.C. State Government	12
09/81	Career Development Course, Phase II - Federal Government	66
10/81	Coordinated Response to Radiation Emergencies UNCC - Member of Presentation Panel - Federal Government	08
01/82	Radiological Monitoring Instructor's Course Update - N.C. State Government	16
07/82	Radiological Emergency Training - U.S. Department of Energy, Nevada Proving Grounds	75
03/83	Career Development Course, Phase III - Federal Government	66
06/83	Safety Systems Hazardous Material Incident Prevention & Control Seminar/Workshop - Charlotte Fire Department	16
09/83	Southern Railway Hazardous Material Response Seminar - N.C. Emergency Management Association	<u>08</u>
	Sub-total	407
	U.S. Military Training - Classroom	40
	- On the Job Training as Reservist	<u>500</u> plus
	TOTAL	947

EPC 1 and 7
Thomas Attachment

RESUME

PHILLIP STEVEN THOMAS

PERSONAL

Residence	1623 Farmstead Road, Rock Hill, South Carolina 29730 telephone (803) 328-0409
Birthdate	August 17, 1948
Marital	Deborah Porter, two children
Health	General health excellent
SSN	251-78-5818

EDUCATION

1967-1972	University of South Carolina, Columbia, South Carolina Bachelor of Arts, Political Science
1962-1966	Rock Hill High School, Rock Hill, South Carolina High School Diploma
1954-1962	Central Elementary School, Rock Hill, South Carolina

EMPLOYMENT

1979 to present	York County Department of General Services, York, South Carolina. Director of General Services: Manage the organization functions of Emergency Preparedness, Personnel, Building and Codes, Fire Prevention/Inspection, Procurement and Property Management, Medical Indigent Services and Social Services Block Grants.
1977-1979	York County Building and Codes Department, York, South Carolina. Building Official: Responsible for the overall conduct of the program of reviewing and approving building plans and specifications and of inspecting buildings and facilities to ensure compliance with various building construction and fire safety codes and regulations, managing operations of the department.
1974-1977	Lexington County Planning Department, Lexington, South Carolina. Building Inspector: Conducted inspections of building construction to assure compliance with all codes as required by building construction codes and regulations.
1973-1974	Geneva Construction Company, Columbia, South Carolina. Project Coordinator for Raintree Project, duties included labor materials management.

PROFESSIONAL TRAINING

ICMA Personnel Administration Course
Certificate - Managers and Administrators Institute-
Bureau of Governmental Research at USC.

MEMBERSHIPS

City/County Managers Association
Personnel Association of South Carolina Counties
International Personnel Management Association (IPMA)
Building Officials Association of South Carolina
State Association of Plumbing, Gas, Mechanical Inspection
International Association of Electrical Inspectors
National Academy of Code Administration
Energy Futures Task Force - currently serving as county
representative
State Budget and Control Board Technical Committee for
Local Government Training - statewide county representative
AMI Business Coalition for Health Care
Catawba Employers Health Council
Catawba Center for Health Promotion - serving as Secretary
Planning Committee Member of Three Rivers Health Service Agency

PROFESSIONAL REFERENCES

J. E. Klugh, County Manager, York County, York, South Carolina
telephone (803) 684-9261

Donald W. Myers, D.P.A.
telephone (804) 257-1600 - business
(803) 747-6285 - home

Melvin McKeown, Attorney at Law, York, South Carolina
telephone (803) 684-4851