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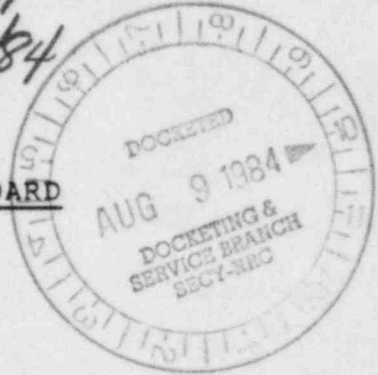
Applicants' Exhibit EP-21

A-21

6/5/84

UNITED STATES OF AMERICA
NUCLEAR REGULATORY COMMISSION

BEFORE THE ATOMIC SAFETY AND LICENSING BOARD



In the Matter of)
DUKE POWER COMPANY, et al.)
(Catawba Nuclear Station,)
Units 1 and 2))

Docket Nos. 50-413
50-414

APPLICANTS' TESTIMONY ON
EMERGENCY PLANNING CONTENTION 8

Duke Power Company
North Carolina
South Carolina
Gaston County
Mecklenburg County
York County

(Stan D. Coleman, Jr.)
(J.T. Pugh, III, E.H. Harris, Jr.)
(P.R. Lunsford, William M. McSwain)
(Bob E. Phillips)
(Lewis Wayne Broome)
(Phillip Steven Thomas)

April 16, 1984

U. S. NUCLEAR REGULATORY COMMISSION

EXHIBIT No. EP-21
Applicant Staff Intervenor
Identified Received Rejected
Date: 6/5/84
Reporter: Ag

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1 TESTIMONY OF DUKE POWER COMPANY
2 (STAN D. COLEMAN, JR.)
3 ON EMERGENCY PLANNING CONTENTION 8

4 Background Information

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

6 A. My name is Stan D. Coleman, Jr. My business address
7 is 1600 Woodlawn Road, Charlotte, North Carolina.

8 Q. WHAT IS YOUR CURRENT JOB TITLE?

9 A. I am employed as Design Engineer, System
10 Communications Transmission Department, Duke Power
11 Company.

12 Q. WHAT IS YOUR EDUCATIONAL BACKGROUND?

13 A. I have a B.S. Degree in Electrical Engineering from
14 Clemson University (1973). My resume is attached.

15 Q. PLEASE SUMMARIZE YOUR WORK EXPERIENCE.

16 A. Ten years with Duke Power.

17 Q. WHAT ARE YOUR PRESENT OCCUPATIONAL DUTIES?

18 A. Supervision of the engineering group with
19 responsibilities for telephone switching systems and
20 two-way radio.

21 EPC 8 Testimony

22 Q. THE STATES OF NORTH CAROLINA AND SOUTH CAROLINA AND
23 YORK, MECKLENBURG AND GASTON COUNTIES INDICATE
24 RELIANCE, TO SOME DEGREE, UPON DUKE'S SELECTIVE
25 SIGNALING OR RING DOWN SYSTEM FOR BYPASSING LOCAL
26 TELEPHONE SYSTEM OVERLOADS. DID YOU OR THOSE YOU
27 SUPERVISE DEVELOP THIS SYSTEM?

28 A. Yes.

1 Q. PLEASE DESCRIBE THE OPERATION OF THE SYSTEM. IS IT
2 BASED ON DUKE'S MICROWAVE COMMUNICATIONS SYSTEM?

3 A. Yes, in part. The selective signaling system is a
4 hybrid system composed of microwave and leased
5 telephone company circuits. These leased telephone
6 company circuits are private lines dedicated to the
7 system. The selective signaling system is a "hot
8 line" that operates like a party line. It is
9 independent of the switched telephone network which
10 means that there is no reliance on telephone company
11 switching equipment. This network provides
12 communications to and from the following locations:
13 (a) Crisis Management Center in the General Office;
14 (b) Technical Support Center and the Control Room at
15 the Station; (c) local government emergency
16 operations centers (EOC) and warning points; (d)
17 State Forward Emergency Operations Center
18 (FEOC)(S.C.); (e) State Emergency Response Team
19 Headquarters (SERT)(N.C.); and (f) EBS Control
20 Station - WBCY Radio. This network is completely
21 backed up by battery-pack power supplies at every
22 location. In addition, station equipment is powered
23 from backed up power sources where possible.

24 Q. DOES THE SYSTEM BYPASS THE LOCAL TELEPHONE COMPANY
25 SWITCHING STATIONS?

26 A. Yes.

1 Q. ARE ALL THE EXTENSIONS IN PLACE AT THIS TIME? IF
2 NOT, WHEN WILL THEY BE INSTALLED AND OPERATIONAL?

3 A. All the locations are installed and operational
4 except the one at the York County Emergency
5 Operations Center which will be installed no later
6 than June 1, 1984.

7 Q. CAN USERS IN THE VARIOUS COUNTY EMERGENCY CENTERS,
8 THE SERT, AND THE CLOVER FEOC CONTACT EACH OTHER AS
9 WELL AS DUKE (BOTH THE STATION AND THE CRISIS
10 MANAGEMENT CENTER) ON THIS SYSTEM WITHOUT BEING
11 AFFECTED BY OVERLOADS ON THE LOCAL TELEPHONE NETWORK?

12 A. Yes.

1 TESTIMONY OF THE STATE OF NORTH CAROLINA
2 (E.H. HARRIS, JR. AND J.T. PUGH, III) ON
3 EMERGENCY PLANNING CONTENTION 8

4 Background Information on Mr. Harris

- 5 Q. PLEASE STATE YOUR NAME AND BUSINESS ADDRESS.
- 6 A. E.H. Harris, Jr., North Carolina Division of
7 Emergency Management, Administration Building, 116
8 West Jones Street, Raleigh, North Carolina, 27605.
- 9 Q. PLEASE DESCRIBE YOUR EDUCATIONAL AND EMPLOYMENT
10 BACKGROUND.
- 11 A. I received a BA degree in history from Hampton
12 Institute and an MA degree in history from Temple
13 University. I am also a graduate of the U.S. Army
14 Command and General Staff College. In 1978 I retired
15 as a U.S. Army officer. Since 1978, I have completed
16 research for the State of North Carolina on the
17 survivability of industry during a nuclear emergency.
18 I have also participated in emergency planning for
19 fixed nuclear facilities and have served as Chief,
20 Training and Education Section, North Carolina
21 Division of Emergency Management. In my current
22 position I serve as Assistant Director for Emergency
23 Response, NCDEM. (EH)
- 24 Q. WHAT ARE THE DUTIES OF YOUR CURRENT POSITION?

- 1 A. I am responsible for emergency response in North
2 Carolina with operations under my jurisdiction. I am
3 responsible for developing procedures for an adequate
4 response to emergencies and for maintaining overall
5 preparedness. (EH)
- 6 Q. HAVE YOU HAD ANY BACKGROUND EXPERIENCE IN EMERGENCY
7 PLANNING?
- 8 A. Yes. I have been involved with emergency planning
9 for more than 20 years since during my military
10 service I also worked with contingency planning. (EH)
- 11 Q. HAVE YOU HAD ANY BACKGROUND EXPERIENCE IN
12 EVACUATIONS?
- 13 A. Yes, most recently with the evacuation necessitated
14 by tornadoes. (EH)
- 15 Q. HAVE YOU HAD ANY EXPERIENCE WITH SHELTERING?
- 16 A. Yes. We deal with procedures for sheltering on a
17 frequent basis. (EH)
- 18 Q. HAVE YOU HAD ANY EXPERIENCE WITH GETTING FOOD AND
19 CLOTHING TO PEOPLE?
- 20 A. Yes, again with the recent tornado disaster. (EH)
- 21 Q. HAVE YOU HAD ANY EXPERIENCE WITH DECONTAMINATION?
- 22 A. Only to the extent of my involvement with the
23 emergency drills for fixed nuclear facilities. (EH)
- 24 Q. ARE YOU FAMILIAR WITH EMERGENCY BROCHURES PREPARED TO
25 INFORM THE PUBLIC ABOUT OTHER TYPES OF EMERGENCIES?

1 A. I am familiar with brochures prepared for possible
2 emergencies at fixed nuclear facilities and with
3 other brochures dealing with emergencies such as
4 tornadoes. (EH)

5 EPC-8 Testimony

6 Q. DOES THE STATE PLAN PROVIDE INFORMATION WHICH
7 ADDRESSES THIS CONTENTION?

8 A. Yes, Part 1, Sections III and IV of the N.C. State
9 Plan. See also Figures 4 and 20 of Part 1 of that
10 Plan. (JTP, EH)

11 Q. ARE YOU SATISFIED THAT THE STATE AND COUNTY PLANS
12 ASSIGN "CLEAR AND EFFECTIVE PRIMARY RESPONSIBILITIES
13 FOR EMERGENCY RESPONSE?"

14 A. The pertinent responsibilities are set forth in the
15 N.C. State Plan in Part 1, Section 3; Part 2, Section
16 3; and Part 3, Section 3. In addition, Part 1,
17 Figure 4; Part 2, Figure 2; and Part 3, Figure 2 of
18 the N.C. State Plan indicate, in tabular form, the
19 organizations having primary and support
20 responsibility for various functions. We are
21 satisfied that the state and related county plans
22 assign clear and effective primary responsibilities
23 for emergency response. We have used the same basic
24 plan for three other nuclear power plants and this
25 plan has been exercised, critiqued, and fine tuned
26 many times in the past. (JTP, EH)

1 Q. PLEASE EXPLAIN YOUR ANSWER WITH SPECIFIC REFERENCES
2 TO THE APPROPRIATE PLAN.

3 A. All NUREG 0654 objectives have been met by assignment
4 of clear and effective primary responsibilities to
5 the proper state and/or local agencies. (JTP, EH)

6 Q. ARE YOU SATISFIED THAT THE STATE AND COUNTY PLANS
7 ESTABLISH SPECIFIC RESPONSIBILITIES OF SUPPORTING
8 ORGANIZATIONS?

9 A. Yes. (JTP, EH)

10 Q. PLEASE EXPLAIN YOUR RESPONSE.

11 A. State, county, and private organizations have been
12 researched for resource availability and agreements
13 coordinated to provide those resources to primary
14 response agencies. (JTP, EH)

15 Q. PLEASE DESCRIBE HOW STATE AND COUNTY OFFICIALS WILL
16 CARRY OUT THEIR RESPONSIBILITIES DURING THE INITIAL
17 PERIOD WHILE THE STATE TEAM IS PROCEEDING FROM THE
18 STATE CAPITAL TO ITS DESIGNATED OPERATIONS CENTER.

19 A. Under the North Carolina plan, county officials have
20 the full direction and control responsibilities with
21 state agencies acting as supporting organizations
22 until the SERT is in a position to assume full
23 responsibility for off-site response. The counties
24 are in direct communication with the Catawba Nuclear
25 Plant and have the authority and responsibility to
26 implement action to protect the citizens within their

1 political jurisdiction. This is accomplished through
2 an organization at the county level similar to the
3 SERT at the state level. The counties operate from
4 their pre-planned and established emergency
5 operations center (EOC). Decisions are made by the
6 local officials and coordinated through the local
7 emergency coordinator. (JTP, EH)

8 State agency support is coordinated through the
9 state EOC in Raleigh until the SERT is on site at its
10 SERT headquarters at Douglas Airport in Charlotte and
11 able to assume operational control and coordination
12 of state support. The Counties contact the State EOC
13 in Raleigh prior to the establishment of the SERT
14 headquarters at Douglas Airport. Such contact might
15 be made for technical assessment or to request state
16 resources. (JTP, EH)

17 Q. DO LOCAL OFFICIALS HAVE THE AUTHORITY TO ORDER
18 EVACUATION OR OTHER PROTECTIVE ACTION?

19 A. Yes. (JTP, EH)

20 Q. WITH WHOM MUST THEY CONSULT BEFORE DOING SO?

21 A. We are not aware of any mandatory consultation
22 requirement. (JTP, EH)

23 Q. DO STATE OFFICIALS HAVE THE AUTHORITY TO ORDER
24 EVACUATION OR OTHER PROTECTIVE ACTION?

1 A. Yes, they do, on issuance of a declaration of a
2 disaster by the Governor. (JTP, EH)

3 Q. WITH WHOM MUST THEY CONSULT BEFORE DOING SO?

4 A. They must consult with the the Council of State.
5 However, copies must be on file with the appropriate
6 county clerks of court and the Secretary of Crime
7 Control and Public Safety prior to compelling
8 evacuation. (JTP, EH)

9 Q. TO THE EXTENT RELEVANT, PLEASE NOTE ANY TIME
10 DEPENDENT VARIABLES WHICH WOULD AFFECT YOUR RESPONSE
11 TO THE PREVIOUS FOUR QUESTIONS.

12 A. The only time-dependent variable would be
13 communication with the Governor and his subsequent
14 contact with the Council of State members. This,
15 however, would not cause a serious delay since the
16 Governor will be continuously updated and advised on
17 the situation and would normally be available to make
18 the decision to cause the proclamation to be issued.
19 (JTP, EH)

20 Q. HOW LONG WOULD IT TAKE TO ESTABLISH THE SERT
21 HEADQUARTERS AT DOUGLAS AIRPORT?

22 A. As specified in Part 1, p. 86, Figure 20 of the N.C.
23 State Plan, it is estimated to take seven to nine
24 hours to establish the SERT. (JTP, EH)

1 Q. HAVE THE STATES OF NORTH CAROLINA AND SOUTH CAROLINA
2 MADE ARRANGEMENTS TO COORDINATE EMERGENCY RESPONSE
3 ACTIONS?

4 A. A number of meetings have been held between North
5 Carolina and South Carolina as well as the counties
6 to make arrangements to coordinate emergency response
7 action. We have also conducted joint exercises.
8 (JTP, EH)

9 Q. WHAT SORTS OF THINGS WOULD YOU COORDINATE WITH THE
10 COUNTY GOVERNMENTS? FOR EXAMPLE, WOULD YOU
11 COORDINATE THE TIMING OF THE ACTIVATION OF THE
12 ALERTING SYSTEM?

13 A. Specific activities include but are not limited to
14 the following:

- 15 - Lake Warning
- 16 - Media Operations
- 17 - Activation of Alert and Notification System
- 18 - Decision making for protective actions
- 19 - Field monitoring
- 20 - Operation of FEOC and SERT
- 21 - Communications
- 22 - Traffic control (JTP, EH)

23 Q. WOULD YOU EXPECT THE SIRENS TO GO OFF ABOUT THE SAME
24 TIME?

25 A. Yes. (JTP, EH)

26 Q. WOULD YOU COORDINATE THE CONTENT OF THE EMERGENCY
27 BROADCAST SYSTEM (EBS) MESSAGES?

- 1 A. Yes. (JTP, EH)
- 2 Q. MIGHT THE OCCASION ARISE WHERE THE MESSAGE WAS
3 DIFFERENT FOR THE PEOPLE IN ONE COUNTY IN THE EPZ
4 FROM WHAT IT MIGHT BE FOR SOMEBODY IN ANOTHER
5 DIRECTION?
- 6 A. Yes, people in one county in the EPZ might be told to
7 evacuate but because of wind direction people in
8 another county might be told to listen for further
9 EBS information. (JTP, EH)
- 10 Q. AFTER THE STATE ASSUMES DIRECTION AND CONTROL, WHAT
11 ROLE DO THE COUNTIES HAVE?
- 12 A. Once the State has arrived and established the SERT,
13 the counties in effect become support agencies for
14 the State. (JTP, EH)
- 15 Q. WOULD YOUR ROLE INCLUDE SUCH THINGS AS MAINTAINING
16 THE TRAFFIC CONTROL POINTS?
- 17 A. When the state takes over, they would have enough
18 Highway Patrolmen and National Guard to man all of
19 the traffic control points if necessary. However, we
20 anticipate that local law enforcement officials will
21 perform at least part of that function. (JTP, EH)
- 22 Q. WOULD YOU STILL NEED YOUR COMMUNICATIONS FACILITIES?
- 23 A. Our communications facilities would still be
24 operating as usual. (JTP, EH)
- 25 Q. WHAT COMMUNICATIONS CAPABILTIES DOES THE STATE HAVE
26 FOR COORDINATING THE RADIOLOGICAL EMERGENCY RESPONSE?

- 1 A. State communication systems include:
- 2 - amateur radio
 - 3 - two-way radio on state frequencies (FM and SSB)
 - 4 - PIN (police information network)
 - 5 - telecopying capability (which we plan to upgrade
 - 6 along with radio communication)
 - 7 - Duke radio (at the SERT)
 - 8 - Duke Selective Signaling System (at the SERT)
 - 9 - courier
 - 10 - normal Bell telephone lines (JTP, EH)
- 11 Q. ARE THERE ANY RADIO COMMUNICATIONS CAPABILITIES?
- 12 A. Yes, the Duke radio system plus the State has radio
- 13 communications capabilities on ten to twenty separate
- 14 frequencies. They include Division of Emergency
- 15 Management Single Side Band frequency, four radio
- 16 frequencies shared by the Division of Emergency
- 17 Management and Radiation Protection Section, twelve
- 18 frequencies for the State Highway Patrol, one for
- 19 Forestry, one for Wildlife, one for DOT, and one for
- 20 the National Guard. (JTP, EH)
- 21 Q. ARE YOU ABLE TO COMMUNICATE WITH EVERY COUNTY OR
- 22 STATE DEPARTMENT THAT WOULD BE INVOLVED IN A
- 23 RADIOLOGICAL RESPONSE?
- 24 A. We have the capability, and we are in the process of
- 25 upgrading our capability. (JTP, EH)

1 Q. WHAT KINDS OF COMMUNICATIONS DO YOU HAVE WITH THE
2 CATAWBA STATION?

3 A. We have the following communications with Catawba
4 Nuclear Station from the SERT Headquarters:

- 5 - normal Bell telephone lines
- 6 - Duke radio
- 7 - Duke Selective Signaling System (JTP, EH)

8 Q. ARE THERE ANY OTHER RADIO COMMUNICATIONS CAPABILITIES
9 BETWEEN DUKE AND NORTH CAROLINA?

10 A. Amateur radio has been tested in past exercises as
11 well and may be used, as necessary. (JTP, EH)

12 Q. WOULD OVERLOADING OF THE TELEPHONE CIRCUITS INTERFERE
13 WITH YOUR COMMUNICATIONS WITH THE STATE OF SOUTH
14 CAROLINA OR YORK COUNTY SHOULD YOU HAVE THE OCCASION
15 TO TALK TO THEM?

16 A. Overloading of the telephone circuits would not cause
17 any problems with that, because of communication
18 capabilities described above which operate outside
19 the telephone network. (JTP, EH)

20 Q. WOULD TELEPHONE OVERLOADING INTERFERE WITH YOUR
21 COMMUNICATION WITH THE CATAWBA NUCLEAR STATION?

22 A. It would not, due to the selective signaling system
23 and Duke Power radio. We will be able to talk with
24 them directly. (JTP, EH)

25 Q. IS YOUR COMMUNICATION SYSTEM WITH THE PLANT A WIRE
26 SYSTEM OR MICROWAVE OR RADIO?

- 1 A. It includes use of all three types of systems so as
2 to provide backup capability. (JTP, EH)
- 3 Q. WOULD TELEPHONE CIRCUIT OVERLOADING INTERFERE WITH
4 COMMUNICATIONS WITH THE TWO NORTH CAROLINA COUNTIES -
5 MECKLENBURG AND GASTON COUNTY?
- 6 A. Communication with Gaston and Mecklenburg counties
7 could be accomplished through the same method, using
8 the selective signaling system, Duke radio, Division
9 of Emergency Management, and amateur radios. (JTP,
10 EH)
- 11 Q. HAVE YOU MADE ARRANGEMENTS FOR A BACKUP EOC IN THE
12 EVENT THAT FACILITY MUST BE EVACUATED FOR SOME
13 REASON?
- 14 A. Part 1, pp. 83-84 of the N.C. State Plan designates
15 the Iredell County EOC as the first alternate EOC and
16 the University of North Carolina at Charlotte as its
17 second alternate location in case the primary
18 location is not available or must be evacuated. (JTP,
19 EH)

1 TESTIMONY OF THE STATE OF SOUTH CAROLINA
2 (P.R. LUNSFORD AND W.M. MCSWAIN) ON
3 EMERGENCY PLANNING CONTENTION 8

4 Q. DOES THE STATE PLAN TO ASSIGN CLEAR AND EFFECTIVE
5 PRIMARY RESPONSIBILITIES FOR AN EMERGENCY RESPONSE?

6 A. Yes. (PL, WM)

7 Q. PLEASE IDENTIFY WHERE IN THE STATE AND COUNTY PLANS
8 CLEAR AND EFFECTIVE RESPONSIBILITY FOR THE EMERGENCY
9 RESPONSE TEAM FUNCTIONS ARE IDENTIFIED.

10 A. In the S.C. State Plan it would be Figure 1 of the
11 Site-Specific Plan, and Part IV.B of SCORERP. (PL,
12 WM)

13 Q. IS THERE A TABLE THAT DESCRIBES PRIMARY AND SUPPORT
14 FUNCTIONS (OVERALL) IN THE STATE PLAN?

15 A. Yes. That is Table 3 of SCORERP. (PL, WM)

16 Q. DOES THE STATE PLAN TO ESTABLISH SPECIFIC
17 RESPONSIBILITIES FOR SUPPORTING ORGANIZATIONS?

18 A. Yes, they do. (PL, WM)

19 Q. ARE THOSE RESPONSIBILITIES AND THOSE SUPPORTING
20 AGENCIES AND ORGANIZATIONS IDENTIFIED IN PARTICULAR
21 PORTIONS OF THE STATE PLAN?

22 A. Yes, and in county plans also. (PL, WM)

23 Q. WHAT ARE THOSE SECTIONS OF THE STATE PLAN?

24 A. Parts IV.A. and IV.B.6 of the Site-Specific Plan and
25 Parts I.E, IV.B and VI of SCORERP.

26 Q. IS IT YOUR VIEW THAT EACH AND EVERY AGENCY INVOLVED
27 IN THIS STATE PLAN, IN EITHER A PRIMARY OR SUPPORTING
28 ROLE, KNOWS WHAT IS EXPECTED OF THEM?

- 1 A. Yes, not only because the plan spells it out in what
2 we feel is good form, but based on the exercises we
3 have had and participation by state agencies in those
4 exercises. We are confident about the training that
5 has been conducted not only on the state level but
6 also on the county level. (PL, WM)
- 7 Q. DO YOU THINK THESE AGENCIES AND ORGANIZATIONS
8 UNDERSTAND WHAT THEY WILL BE CALLED UPON TO DO IN AN
9 EMERGENCY?
- 10 A. Yes. (PL, WM)
- 11 Q. DO THEY UNDERSTAND WHO IS IN CHARGE?
- 12 A. No doubt about it. (PL, WM)
- 13 Q. HAS ANYBODY TOLD YOU THAT THEY CANNOT DO THE JOB THAT
14 IS EXPECTED OF THEM BECAUSE THEY DO NOT HAVE THE
15 RESOURCES OR FOR ANY OTHER REASON?
- 16 A. No one has told us that. (PL, WM)
- 17 Q. IN ADDITION TO RESOURCES, DO YOU FEEL THAT THE
18 PERSONNEL AND THE RESPONSIBLE ORGANIZATIONS, PRIMARY
19 OR SUPPORTING, HAVE BEEN ADEQUATELY TRAINED TO
20 PERFORM THE EMERGENCY RESPONSE THEY WILL BE CALLED
21 UPON TO PERFORM?
- 22 A. Yes. (WM, PL)
- 23 Q. DOES THE PLAN PROVIDE FOR PROCEDURES WHICH WILL
24 DIRECT THESE PEOPLE IN THEIR ACTIONS?
- 25 A. Yes. (PL, WM)

1 Q. PLEASE DESCRIBE HOW THE STATE OFFICIALS WILL CARRY
2 OUT THEIR RESPONSIBILITIES DURING THE INITIAL PERIOD
3 OF AN EMERGENCY WHILE THE STATE TEAM IS PROCEEDING
4 FROM THE STATE CAPITAL TO ITS DESIGNATED OPERATIONS
5 CENTER?

6 A. I would like to begin before that, during the initial
7 notification. If the State declares an accident at
8 the plant it would customarily follow a scenario that
9 there would be an unusual event first. All of our
10 actions are governed on the designation of emergency
11 action level. We do certain things at certain times.
12 In an unusual event we notify everybody that is
13 affected. We pay close attention to what is going
14 on. (PL, WM)

15 The next stage is an alert. There is nothing to
16 say that that might not be the initial stage in some
17 occurrences. That is the key level at which we start
18 taking some actions that you could see. We alert
19 state agencies and we alert adjacent states. We
20 alert all the counties affected and we open up the
21 Emergency Operations Center in Columbia. (PL, WM)

22 At some stage of that Alert Level the director
23 of emergency preparedness division might choose based
24 on recommendations from DHEC to dispatch the FEOC.
25 In this case I believe he would. The EOC would be
26 organized (that is, the mechanical process of putting

1 it together logistically would start when an alert
2 was declared) so as to be ready to move. The
3 Emergency Operations Center is open in Columbia, a
4 State of Emergency is declared by the Governor, and
5 the State assumes responsibility and control. The
6 decision-making takes place in the SEOC until the
7 forward emergency operations center is set up and the
8 decision-maker (who customarily would be the
9 director) is in position at the SEOC. He gives the
10 word before the Forward Emergency Operation Center
11 takes over. (PL, WM)

12 The communications have proven to be good
13 between the EOC in Columbia and the FEOC. It is a
14 very precise process in so far as who is in charge at
15 any given time. Until the Forward Emergency
16 Operations Center is open the decisions are made here
17 in the Emergency Operations Center in Columbia. (PL,
18 WM)

19 Q. HAS EXPERIENCE IN THE VARIOUS EMERGENCY DRILLS BORNE
20 OUT THE ADEQUACY OF THE SYSTEM YOU DESCRIBED?

21 A. Yes. (PL, WM)

22 Q. IN THE EVENT OF AN EMERGENCY AT CATAWBA, HOW LONG
23 WILL IT TAKE STATE OFFICIALS TO GET TO THE FEOC FROM
24 COLUMBIA, FROM THE TIME THE DECISION IS MADE TO MOVE
25 AND BECOME OPERATIONAL?

1 A. To the best of my knowledge I believe we figure three
2 and one-half hours. That proved to be a pretty
3 reasonable estimate. I believe we opened the FEOC
4 during the last exercise just short of that time. It
5 did not take us long. (PL, WM)

6 Q. WHERE IS THE FEOC LOCATED?

7 A. It is at the South Carolina Army National Guard
8 Armory in Clover, South Carolina. (PL, WM)

9 Q. DURING THE TIME THAT THE STATE OFFICIALS ARE
10 PROCEEDING TO THE FEOC, WILL THE COUNTIES HAVE ACCESS
11 TO STATE RESOURCES?

12 A. Yes. (PL, WM)

13 Q. WHAT KIND OF RESOURCES MIGHT THEY BE?

14 A. They could be any type of communication equipment
15 that is requested, school buses, and a liaison team
16 from this agency, for example. (PL, WM)

17 Q. WOULD THAT INCLUDE THE HIGHWAY PATROL OR POSSIBLY THE
18 NATIONAL GUARD?

19 A. Yes. Members of the wildlife service also are
20 included, as well as the people from the Department
21 of Social Services. All that is accomplished by a
22 telephone call. (PL, WM)

23 Q. DURING THE TIME THE STATE OFFICIALS ARE PROCEEDING TO
24 THE FEOC WOULD THEY BE ABLE TO CONTACT COUNTY
25 OFFICIALS IF NECESSARY?

26 A. Yes, by radio relay. (PL, WM)

- 1 Q. THE RADIO RELAY WOULD BE BACK TO COLUMBIA AND FROM
2 COLUMBIA TO THE COUNTY?
- 3 A. We could do it through various means. We could relay
4 through the director who has the capability of
5 communicating with the highway patrol. We could
6 relay back to the Emergency Operations Center. If
7 the county had a radio in its EOC we could
8 communicate directly. Some counties do have that
9 capability. (PL, WM)
- 10 Q. DO LOCAL OFFICIALS HAVE AUTHORITY TO ORDER EVACUATION
11 OR OTHER PROTECTIVE ACTION?
- 12 A. Yes. (PL, WM)
- 13 Q. DOES THE RESPONSIBILITY FOR DETERMINING PROTECTIVE
14 ACTIONS CHANGE ACCORDING TO THE PROGRESSION OF EVENTS
15 IN AN EMERGENCY?
- 16 A. The responsibilities for protective action lies with
17 the Governor's office representative, EPD director,
18 and DHEC representative on the Executive Team when
19 the SEOC or FEOC is operational and a State of
20 Emergency has been declared. (PL, WM)
- 21 Q. DOES THIS DECISION MAKING RESPONSIBILITY LIE WITH
22 THAT EXECUTIVE GROUP THROUGHOUT AN EVENT?
- 23 A. That group would make those decisions only after a
24 State of Emergency was declared and the FEOC or SEOC
25 was operational. (PL,WM)

- 1 Q. WOULD THE DECISION FOR PROTECTIVE ACTION BE MADE BY
2 THE EXECUTIVE GROUP AT THE SEOC ASSUMING A STATE OF
3 EMERGENCY HAD BEEN DECLARED AT ABOUT THE SAME TIME
4 THE SEOC WAS ESTABLISHED?
- 5 A. Yes. The decisions will be made at the SEOC until
6 the FEOC is established, then the FEOC would assume
7 control. (PL, WM)
- 8 Q. WHILE THE FEOC ORGANIZATION IS ENROUTE TO CLOVER, IF
9 THE SEOC IS OPERATIONAL BUT A STATE OF EMERGENCY HAS
10 NOT BEEN DECLARED, WHO MAKES DECISIONS FOR PROTECTIVE
11 ACTION?
- 12 A. The local government. (PL, WM)
- 13 Q. IF IN THAT SITUATION A STATE OF EMERGENCY HAD BEEN
14 DECLARED WHO MAKES DECISIONS FOR PROTECTIVE ACTION?
- 15 A. The Executive Group in the SEOC. (PL, WM)
- 16 Q. ASSUMING THE STATE PERSONNEL ARE ASSEMBLED AT THE
17 FEOC, AND A STATE OF EMERGENCY HAS BEEN DECLARED, WHO
18 IS RESPONSIBLE FOR DETERMINING AND IMPLEMENTING
19 PROTECTIVE ACTIONS?
- 20 A. The Executive Group at the FEOC. (PL, WM)
- 21 Q. HOW ARE WE ASSURED THAT THE STATE WILL NOT GIVE ONE
22 MESSAGE WITH RESPECT TO TAKING AN EVACUATION AND THE
23 COUNTY GIVE A CONFLICTING MESSAGE?
- 24 A. Once a State of Emergency has been declared and the
25 SEOC is established, information to the public will
26 be disseminated and transmitted through the SEOC.

1 Once the FEOC is established, a media center will be
2 set up in Charlotte. At that time public information
3 will be disseminated from that center. In that
4 facility will be representatives of all three
5 counties and both states as well as the utility.
6 Prior to the time the SEOC is established there would
7 be no concerns for conflicting messages because the
8 counties would be coordinating among themselves as to
9 timing and content of messages. (PL, WM)

10 When the SEOC has been established with a
11 declaration of emergency in South Carolina, the SEOC
12 would take over that role of coordination with the
13 two North Carolina counties and the State of North
14 Carolina. After the FEOC and media center are
15 established, all public information coming out over
16 the EBS or other such channels would be coordinated
17 between the State and county representatives at the
18 media center and those representatives of the
19 utility. (PL, WM)

20 Q. IS THERE ANYTHING IN THE STATE OR COUNTY PLANS THAT
21 CLEARLY DELINEATES A RESPONSIBILITY SUCH THAT AT A
22 CERTAIN TIME THE RESPONSIBILITY FOR DETERMINING
23 APPROPRIATE PROTECTIVE ACTIONS LIES WITH THE STATE AS
24 OPPOSED TO THE COUNTY?

1 A. Yes. On page 22 of SCORERP it states, "The State
2 Emergency Operations Center and Forward Emergency
3 Operations Center will be established and directed by
4 EPD at the Governor's order. When the FEOC is not
5 established, SEOC will coordinate the off-site
6 activities of State agencies, local government,
7 Federal Agencies, and contiguous states. When the
8 FEOC is established, the SEOC will relinquish
9 operational control and will continue operation by
10 supporting the FEOC. Guidance, recommendations, and
11 actions by the SEOC/FEOC will be the result of DHEC's
12 recommendations." (PL, WM)

13 Q. WOULD YOU PLEASE EXPLAIN THE INTERRELATIONSHIP
14 BETWEEN THE COUNTIES' AUTHORITY AND THE STATE'S
15 AUTHORITY IN THE EVENT OF AN EMERGENCY SITUATION AT
16 THE CATAWBA NUCLEAR STATION?

17 A. Once a state of emergency is declared by the
18 Governor, the state would assume direction and
19 coordination supported by the technical assessment by
20 the utility. In the event of a rapidly escalating or
21 immediate situation in which the State is not
22 operational at that point in time, then that
23 authority for determining and implementing protective
24 actions would rest with the counties, supported by
25 advice from the utility and the State. (PL, WM)

- 1 Q. HAVE YOU MADE ANY ARRANGEMENTS FOR A BACKUP FEOC IN
2 THE EVENT THE FEOC MUST BE EVACUATED FOR SOME REASON?
- 3 A. Yes we have. (PL, WM)
- 4 Q. DO YOU BELIEVE THAT THE FEOC IS ADEQUATE FOR ITS
5 PURPOSE?
- 6 A. Yes. (PL, WM)
- 7 Q. WHAT SORT OF THINGS WOULD YOU COORDINATE WITH OTHER
8 STATE AND COUNTY GOVERNMENTS? FOR EXAMPLE, WOULD YOU
9 COORDINATE THE TIME OF THE ACTIVATION OF THE ALERTING
10 SYSTEM?
- 11 A. Yes. (PL, WM)
- 12 Q. WOULD YOU EXPECT THE SIRENS TO GO OFF AT ABOUT THE
13 SAME TIME?
- 14 A. Yes. (PL, WM)
- 15 Q. WOULD YOU COORDINATE THE CONTENT OF THE EMERGENCY
16 BROADCAST SYSTEM MESSAGE?
- 17 A. Absolutely. (PL, WM)
- 18 Q. MIGHT THE OCCASION ARISE WHERE THE MESSAGE WAS
19 DIFFERENT FOR THE PEOPLE IN ONE COUNTY IN THE EPZ
20 FROM WHAT IT MIGHT BE FOR SOMEBODY IN ANOTHER
21 DIRECTION?
- 22 A. Based on upon the protective recommendations it is
23 very possible to do this. One area could be
24 evacuated and another recommended to take shelter.
25 (PL, WM)

1 Q. WHO IS THE FIRST PERSON OR GROUP IN THE SOUTH
2 CAROLINA GOVERNMENT CONTACTED BY THE UTILITY IN AN
3 EMERGENCY AT CATAWBA?

4 A. The Department of Health and Environmental Control
5 (DHEC) and the Bureau of Radiological Health. (PL,
6 WM)

7 Q. WHO DOES DHEC NOTIFY?

8 A. Once they receive the message and assess the
9 information the EPD is then notified. (PL, WM)

10 Q. WHO DOES EPD NOTIFY?

11 A. We contact the affected county and, depending upon
12 the Emergency Action Level, then contact emergency
13 responders from each State Agency in South Carolina.
14 Certain agencies such as the Governor's office and
15 Office of the Adjutant General are notified in nearly
16 all cases. (PL, WM)

17 Q. IF THERE WERE A PROBLEM WITH THE LOCAL TELEPHONE
18 SYSTEM AROUND THE CATAWBA NUCLEAR STATION WOULD IT
19 IMPAIR EPD'S ATTEMPTS TO NOTIFY MEMBERS OF THE
20 SEOC/FEOC STAFF?

21 A. Not in the Columbia area where we are located. It
22 would not impair our callout. (PL, WM)

23 Q. IN ADDITION, DO YOU SEE ANY PROBLEM WITH CONTACT BACK
24 AND FORTH FROM THE SEOC TO YORK COUNTY IF THERE WERE
25 OVERLOADING OF THE LOCAL TELEPHONE NETWORK?

- 1 A. No, I do not, because we have a South Carolina EPD
2 Base Station Radio in the York County EOC to allow
3 them to talk back and forth with Columbia. (PL, WM)
- 4 Q. DO YOU SEE ANY PROBLEM WITH CONTACT BETWEEN THE SEOC
5 AND DUKE POWER COMPANY'S FACILITY AT CATAWBA OR THE
6 CRISIS MANAGEMENT CENTER IN CHARLOTTE?
- 7 A. No, I do not, because the Nuclear Station would have
8 a South Carolina EPD base radio to allow discussion
9 with Columbia. (PL, WM)
- 10 Q. ARE THERE OTHER METHODS OF CONTACT BETWEEN THE FEOC
11 AND DUKE POWER (ONCE THE FEOC IS ESTABLISHED) THAT
12 ARE OUTSIDE OF THE LOCAL TELEPHONE EXCHANGE?
- 13 A. Yes. We have radio communications plus the microwave
14 system Duke set up and they function independently of
15 the local telephone exchange. (PL, WM)
- 16 Q. DO YOU ANTICIPATE ANY PROBLEMS IN BEING ABLE TO
17 COORDINATE WITH MECKLENBURG AND GASTON COUNTIES AND
18 THE STATE OF NORTH CAROLINA IN RALEIGH FROM THE SEOC?
- 19 A. We can contact Raleigh directly from Columbia and
20 they can coordinate with the two counties via their
21 own radio networks. From the FEOC at Clover we can
22 contact Columbia by EPD radio and have them relay
23 information or messages to Raleigh if the SERT is not
24 established. If SERT is established we can use

- 1 Duke's microwave system, Duke's radio system, or the
2 EPD radio, in that SERT will have an EPD radio base
3 station at the Air Guard Armory. (PL, WM)
- 4 Q. WHILE THE FEOC STAFF IS ENROUTE, DURING A DECLARED
5 STATE OF EMERGENCY, WHO IS RESPONSIBLE FOR
6 COORDINATING PROTECTIVE ACTIONS?
- 7 A. The Executive Team in the SEOC. (PL, WM)
- 8 Q. THEN IS IT CORRECT THAT IT IS NOT NECESSARY TO
9 CONTACT THE FEOC LEADERSHIP WHILE THEY ARE ENROUTE?
- 10 A. That is correct, but we can contact them by radio if
11 necessary. (PL, WM)

1 TESTIMONY OF GASTON COUNTY
2 (BOB E. PHILLIPS) ON
3 EMERGENCY PLANNING CONTENTION 8

4 Q. CONTENTION 8 ALLEGES THAT EXISTING EMERGENCY PLANS
5 FAIL TO ASSIGN CLEARLY PRIMARY AND SECONDARY
6 RESPONSIBILITIES FOR EMERGENCY RESPONSE. ARE YOU
7 SATISFIED THAT THE GASTON COUNTY EMERGENCY PLAN
8 ASSIGNS "CLEAR AND EFFECTIVE PRIMARY RESPONSIBILITIES
9 FOR EMERGENCY RESPONSE," AND THAT EVERY AGENCY
10 INVOLVED IN THE COUNTY PLAN IN A PRIMARY OR
11 SUPPORTING ROLE KNOWS WHAT IS EXPECTED OF THEM?

12 A. Yes, I am satisfied. The responsibility of each
13 department is described in the Gaston County plan,
14 which is set forth at Part 2, Sections III and IV and
15 Figures 2 and 8 of the N.C. State Plan. A checkoff
16 list is provided. The plan states whether a
17 responsibility is a primary or secondary one. I am
18 certainly satisfied because I personally briefed
19 every department on what would be expected of that
20 agency if an emergency situation arose.

21 Q. DO YOU THINK ENTITIES INVOLVED UNDERSTAND WHAT THEY
22 ARE CALLED UPON TO DO?

23 A. I certainly do.

24 Q. DO THEY UNDERSTAND WHO IS IN CHARGE?

25 A. That is correct, they do.

26 Q. HAS ANYBODY TOLD YOU THAT THEY CANNOT DO THE JOB THAT
27 IS EXPECTED OF THEM BECAUSE THEY DO NOT HAVE THE
28 RESOURCES OR FOR ANY OTHER REASON?

- 1 A. I haven't been told that.
- 2 Q. DO ALL OF THE COUNTY DEPARTMENTS AND AGENCIES AND
3 SUPPORT ORGANIZATIONS HAVE THE RESOURCES TO DO WHAT
4 YOU EXPECT THEM TO DO, AS FAR AS YOU KNOW?
- 5 A. That is correct.
- 6 Q. TO THE EXTENT THAT IT HAS BEEN TESTED BY EXERCISES OR
7 DRILLS, HAS THAT BEEN BORNE OUT?
- 8 A. Yes.
- 9 Q. WHERE IS THE EOC LOCATED?
- 10 A. In Gastonia. That is where the operations run from.
11 We have radio communications with every county and
12 city department from this building, and we have the
13 telephone capabilities in the event we have to open
14 the EOC.
- 15 Q. WHAT RESPONSIBILITIES DOES GASTON COUNTY HAVE FROM
16 THE TIME YOU FIRST BECOME AWARE THAT THERE MAY BE A
17 PROBLEM OF SOME DESCRIPTION UNTIL THE TIME NORTH
18 CAROLINA OFFICIALS WOULD TAKE OVER?
- 19 A. Gaston County would probably have the total operation
20 for maybe the first six to eight hours until the
21 State Emergency Response Team (SERT) headquarters got
22 set up. We would then support the state.
- 23 Q. WHERE WOULD THE PEOPLE FROM NORTH CAROLINA STATE
24 GOVERNMENT REPORT TO?
- 25 A. They would report to SERT headquarters at Douglas
26 Airport.

- 1 Q. DURING THE TIME THAT THE N.C. STATE OFFICIALS ARE
2 PROCEEDING TO SERT HEADQUARTERS, WOULD YOU HAVE
3 ACCESS TO SOME STATE RESOURCES DURING THAT TIME?
- 4 A. That is correct.
- 5 Q. WHAT KINDS OF RESOURCES MIGHT THEY BE?
- 6 A. Highway patrol, possibly National Guard, if the
7 government activated them in the emergency and we
8 needed them.
- 9 Q. DURING THE TIME THAT THE N.C. STATE OFFICIALS ARE
10 PROCEEDING TO SERT HEADQUARTERS, WOULD YOU BE ABLE TO
11 CONTACT THEM (OR OTHER RESPONSIBLE STATE OFFICIALS)
12 IF NECESSARY?
- 13 A. I will be able to contact them during this time
14 through the EOC in Raleigh by using the telephone or
15 the highway patrol radio. We may also use the police
16 information network (PIN).
- 17 Q. UNTIL NORTH CAROLINA STATE GOVERNMENT OFFICIALS TOOK
18 OVER, WOULD YOU BE ABLE TO ADVISE OR ORDER AN
19 EVACUATION OR OTHER PROTECTIVE ACTION?
- 20 A. If the need arose, I would be able to do so.
- 21 Q. BEFORE YOU WOULD DO THAT, WHO WOULD YOU COORDINATE
22 WITH?
- 23 A. The State, EOC in Raleigh, and Duke Power officials.
24 I could order an evacuation or other protective
25 action if Gaston County people were in jeopardy

1 without coordinating with the state, EOC in Raleigh
2 or Duke Power officials, but, if there is time to do
3 so, we will coordinate with all of these people.

4 Q. WOULD YOU ALSO CONFER WITH ANY OTHER COUNTIES OF
5 STATES INVOLVED?

6 A. Mecklenburg and York, and of course Gaston County
7 Commissioners, if I had time to do so.

8 Q. AFTER WHATEVER COORDINATION SEEMED TO BE APPROPRIATE,
9 WOULD YOU HAVE THE AUTHORITY TO ADVISE OR ORDER AN
10 EVACUATION?

11 A. Yes.

12 Q. DO LOCAL OFFICIALS ALSO HAVE THE AUTHORITY TO ORDER
13 EVACUATION OR OTHER PROTECTIVE ACTION?

14 A. Yes.

15 Q. WITH WHOM MUST THEY CONSULT BEFORE DOING SO?

16 A. If it pertains to saving lives and property, my
17 dispatchers can order evacuation or other protective
18 action. Normally they will check with me before
19 doing so, if time permits.

20 Q. WHAT SORTS OF THINGS WOULD YOU COORDINATE WITH THE
21 OTHER COUNTY GOVERNMENTS? FOR EXAMPLE, WOULD YOU
22 COORDINATE THE TIMING OF THE ACTIVATION OF THE
23 ALERTING SYSTEM?

24 A. Yes.

25 Q. SO THAT YOU WOULD EXPECT THE SIRENS TO GO OFF ABOUT
26 THE SAME TIME?

- 1 A. Simultaneously if possible.
- 2 Q. WOULD YOU COORDINATE THE CONTENT OF THE EMERGENCY
3 BROADCAST SYSTEM (EBS) MESSAGES?
- 4 A. Yes.
- 5 Q. MIGHT THE OCCASION ARISE WHERE THE MESSAGE WAS
6 DIFFERENT FOR THE PEOPLE IN GASTON COUNTY IN THE EPZ
7 FROM WHAT IT MIGHT BE FOR SOMEBODY IN ANOTHER
8 DIRECTION?
- 9 A. Yes. In a situation like this, we would compose our
10 own EBS message.
- 11 Q. SUCH AS FOR EXAMPLE, WHAT?
- 12 A. For instance, take shelter and keep tuned for further
13 instructions.
- 14 Q. AFTER THE STATE ARRIVES ON THE SCENE, WHAT ROLE DOES
15 GASTON COUNTY HAVE?
- 16 A. We support the state in the direction and control of
17 the operation.
- 18 Q. WOULD YOUR ROLE INCLUDE SUCH THINGS AS MAINTAINING
19 THE TRAFFIC CONTROL POINTS?
- 20 A. If needed. Probably when the state takes over, they
21 would have enough Highway Patrolmen and National
22 Guard to man all of the traffic control points.
- 23 Q. WOULD YOU STILL NEED YOUR COMMUNICATIONS FACILITIES?
- 24 A. My communications facilities would still be operating
25 as usual.

- 1 Q. IS THERE ANY WAY THAT OVERLOADING OF TELEPHONE
2 CIRCUITS, IF THAT OCCURRED, COULD INTERFERE WITH YOUR
3 COMMUNICATIONS WITH THE CATAWBA PLANT?
- 4 A. Not that I can see.
- 5 Q. WHAT KIND OF COMMUNICATIONS DO YOU HAVE WITH THE
6 CATAWBA STATION?
- 7 A. I have selective signal dialing system from the plant
8 and also radio communications.
- 9 Q. WHAT KIND OF COMMUNICATIONS DO YOU HAVE WITH THE
10 OTHER DEPARTMENTS AND AGENCIES IN THE COUNTY
11 GOVERNMENT?
- 12 A. I have both commercial telephone and radio
13 communication with each department that would be
14 involved with an incident.
- 15 Q. IS THERE ANY WAY THAT OVERLOADING THE TELEPHONE
16 CIRCUITS, IF THAT OCCURRED, WOULD INTERFERE WITH YOUR
17 COMMUNICATIONS WITH THE OTHER DEPARTMENTS AND
18 AGENCIES OF GASTON COUNTY GOVERNMENT THAT YOU NEED TO
19 COMMUNICATE WITH IN A RADIOLOGICAL EMERGENCY?
- 20 A. No, because we have radio back-up communications that
21 would be used.
- 22 Q. WOULD OVERLOADING OF THE TELEPHONE CIRCUITS INTERFERE
23 WITH YOUR COMMUNICATIONS WITH THE STATE OF SOUTH
24 CAROLINA OR NORTH CAROLINA SHOULD YOU HAVE THE
25 OCCASION TO TALK TO THEM?
- 26 A. No, because we have radio communications.

1 Q. IS YOUR COMMUNICATION SYSTEM WITH THE PLANT A WIRE
2 SYSTEM OR MICROWAVE OR RADIO?

3 A. Microwave and radio.

4 Q. WOULD TELEPHONE CIRCUIT OVERLOADING INTERFERE WITH
5 YOUR COMMUNICATIONS WITH THE TWO NORTH CAROLINA
6 COUNTIES - MECKLENBURG AND YORK COUNTY?

7 A. No, because we have radio communications.

1 TESTIMONY OF MECKLENBURG COUNTY
2 (LEWIS WAYNE BROOME) ON
3 EMERGENCY PLANNING CONTENTION 8

4 Q. EMERGENCY PLANNING CONTENTION 8 ASSERTS THAT EXISTING
5 EMERGENCY PLANS FAIL TO ASSIGN CLEAR AND EFFECTIVE
6 PRIMARY AND SECONDARY RESPONSIBILITIES FOR EMERGENCY
7 RESPONSE. WHERE DOES THE MECKLENBURG COUNTY PLAN
8 ADDRESS THIS ISSUE?

9 A. Part 3 (particularly Sections III and IV and Figures
10 2 and 8) of the N.C. State Plan.

11 Q. THIS CONTENTION SUGGESTS, IN PARTICULAR, THAT THERE
12 WILL BE CONFUSION AND LACK OF COORDINATION DURING THE
13 PERIOD THAT THE SERT TEAM IS BEING ASSEMBLED AND
14 TRAVELING TO THE SERT HEADQUARTERS. PLEASE DESCRIBE
15 THE COUNTY'S ROLE DURING THIS PERIOD.

16 A. The concept of operations for a nuclear facility
17 accident or incident is that Mecklenburg County is in
18 charge of emergency response until such time as the
19 State Emergency Response Team (SERT) arrives on the
20 scene with their resources and is able to assume
21 control, at which time the command and control
22 function would switch to the state. Mecklenburg
23 County and its resources, including elements of
24 Charlotte, would then be in a supporting role in the
25 emergency response operation.

1 Q. DURING THE INTERIM BEFORE STATE OFFICIALS ASSUME
2 CONTROL, WOULD MECKLENBURG COUNTY OFFICIALS BE IN
3 CHARGE OF EMERGENCY RESPONSE ACTIVITIES FOR THE
4 COUNTY?

5 A. That's correct, the county is in charge. The county
6 is in charge and we make the necessary decisions
7 based on information that we get with regard to
8 protective action. We have total authority to take
9 any action that we deem necessary to protect the
10 citizens of the community.

11 Q. WOULD YOU BE ABLE TO OBTAIN ANY STATE RESOURCES TO
12 HELP YOU DURING THAT PERIOD WHEN YOU ARE IN CHARGE?

13 A. We already have a commitment from elements of the
14 state government to assist us prior to the state
15 coming on location. Specifically, the highway patrol
16 will assist local law enforcement in their primary
17 role and responsibilities, which is traffic control
18 points and what have you. The concept of operations
19 is clearly defined and clearly understood by all
20 parties.

21 Q. DO THE STATE AND COUNTY OFFICIALS INVOLVED UNDERSTAND
22 THIS DIVISION OF RESPONSIBILITY DURING THE INTERIM
23 BEFORE THE SERT PEOPLE REACH THEIR OPERATIONS CENTER?

1 A. That is correct. We know when command shifts that we
2 become support to the state but the state is also
3 aware that when we are in charge, they will support
4 us.

5 Q. IF YOU THOUGHT IT WAS ADVISABLE TO RECOMMEND
6 EVACUATION, COULD YOU DO THAT DURING THE TIME THAT
7 YOU WERE IN CHARGE?

8 A. Absolutely.

9 Q. WHAT MATTERS WOULD YOU COORDINATE WITH GASTON COUNTY
10 AND YORK COUNTY?

11 A. The coordination among counties associated with
12 Catawba, mainly Gaston and York counties, would be
13 aspects or elements such as the Emergency
14 Broadcasting System to make sure that the information
15 is the same, the activation of sirens and the
16 Emergency Broadcasting System, and the dissemination
17 of information to the public so that we would not be
18 causing conflict to the general public out there or
19 causing any confusion or misunderstanding. We would
20 coordinate those efforts to make sure that we were
21 all looking at the same information and were putting
22 out the same information.

23 Q. WOULD THE SIRENS GO OFF AT APPROXIMATELY THE SAME
24 TIME?

1 A. We would try to coordinate it to the maximum extent
2 possible to make sure that the siren activation and
3 emergency broadcasting system activation were as
4 close as possible among the three counties concerned.

5 Q. DURING WHATEVER TIME IT TAKES THE STATE TO ASSUME
6 COMMAND AND CONTROL RESPONSIBILITIES, ARE THEY IN
7 CHARGE OF THEIR OWN (STATE) RESOURCES, WHEREVER THEY
8 MAY BE?

9 A. That's correct. Except for those resources, such as
10 the State Highway Patrol, for example, that have made
11 a prior commitment to Mecklenburg County to assume
12 certain responsibilities in support of the county's
13 command responsibilities.

14 Q. WHAT PHYSICAL FACILITIES DO YOU HAVE IN THE EVENT OF
15 A RADIOLOGICAL EMERGENCY?

16 A. We would activate the Emergency Operation Center,
17 which we refer to as the EOC, located in the County
18 Police Building in Charlotte at 618 North College
19 Street. There is a large assembly room there with
20 approximately 25 telephones with hot lines that all
21 you have to do is plug in. The entire facility would
22 be available in a major emergency, but for day to day
23 activity the EOC is usually in an assembly room where
24 there are about 22 tables with sufficient chairs for
25 each table. It would be arranged and configured so
26 that the departments that would respond would have

1 access to a phone and a table in order to carry out
2 their primary or supporting role and in an EOC
3 environment.

4 Q. WOULD EACH OF THE RESPONSE ORGANIZATIONS HAVE A
5 COORDINATOR OR LIAISON PERSON IN THAT ROOM?

6 A. Yes, every department that has a primary or
7 supporting role would have a minimum of one
8 representative in the EOC for the decision-making
9 process.

10 Q. DO YOU AGREE WITH THE INTERVENORS' CONTENTION THAT
11 THE PRIMARY AND SUPPORT RESPONSIBILITIES OF COUNTY
12 GOVERNMENTS, AGENCIES, AND SUPPORT ORGANIZATIONS ARE
13 NOT ADEQUATELY SPECIFIED IN THE MECKLENBURG COUNTY
14 PLAN?

15 A. I don't really see a problem in the departments of
16 either city or county government that are in the EOC.
17 Their roles and responsibilities are well defined and
18 I don't see confusion, I don't see overlapping, I
19 don't see any problems associated with the process
20 and the procedures that we have in place.

21 Q. ARE THERE INSTANCES WHERE MORE THAN ONE UNIT OF
22 COUNTY OR COUNTY/CITY GOVERNMENTS IS ASSIGNED THE
23 SAME RESPONSIBILITY?

24 A. No. There are not situations that I am aware of
25 where there is duplication or overlapping of
26 responsibility. As I indicated, I think it is

1 clearly defined and from a standpoint of roles and
2 responsibilities, I don't see any problem with the
3 procedure and plan that we currently have in place.
4 Now, the standard operating procedure will be
5 developed with more detail in a specific step-by-step
6 situation but it still would not be in conflict with
7 the basic planning document.

8 Q. WHEN WILL THE STANDARD OPERATING PROCEDURES BE READY?

9 A. They will be finalized in 90 to 120 days. We are in
10 the process of collecting data and getting the
11 organizations to agree upon the concept for that
12 operational procedure so that in the near future we
13 expect a final document to be available for
14 distribution.

15 Q. HAVE YOU PREPARED SIMILAR PROCEDURES IN OTHER
16 INSTANCES?

17 A. We have standard operating procedures that were
18 prepared for the McGuire Station, and we think that
19 they work very, very well. We are in the process of
20 updating that procedure to reflect changes in
21 operation and new regulations and additional
22 resources.

23 Q. WITH RESPECT TO THE ABILITY OF THE PRIMARY AND
24 SUPPORT ORGANIZATION TO CARRY OUT THE
25 RESPONSIBILITIES ASSIGNED TO THEM, WOULD THE DRILLS
26 THAT YOU HAVE PARTICIPATED IN FOR BOTH MCGUIRE AND

1 CATAWBA INDICATE THAT THESE ORGANIZATIONS ARE CAPABLE
2 OF CARRYING OUT THE RESPONSIBILITIES ASSIGNED TO THEM
3 AND THAT THE INDIVIDUALS IN THOSE ORGANIZATIONS
4 UNDERSTAND AND CAN CARRY OUT THOSE RESPONSIBILITIES?

5 A. That is correct. The McGuire drills and exercises
6 and the Catawba exercise have revealed that each
7 department had a very good understanding of their
8 roles and responsibilities and functioned in a very
9 good manner and knew what they were supposed to do.

10 Q. HAVE YOU OR SOMEBODY IN YOUR ORGANIZATION TALKED TO
11 EACH OF THE PRIMARY RESPONSE ORGANIZATIONS ABOUT
12 THEIR RESPONSIBILITIES?

13 A. Yes. There have been direct communications, either
14 verbal or written, with everybody who has a role in
15 planning and responding.

16 Q. DOES THIS APPLY ALSO TO THE SUPPORTING ORGANIZATIONS?

17 A. Yes it does.

18 Q. ARE YOU SATISFIED THAT EACH OF THOSE SUPPORT
19 ORGANIZATIONS UNDERSTANDS WHAT THEY ARE SUPPOSED TO
20 DO?

21 A. I think they have a clear understanding. As plans
22 develop, as I indicated, we will make contact with
23 these people before a procedure is finalized so that
24 once it is finalized, everybody has a clear
25 understanding of their function.

1 Q. DO THESE SUPPORT ORGANIZATIONS HAVE THE RESOURCES TO
2 CARRY OUT THE RESPONSIBILITIES THAT HAVE BEEN
3 ASSIGNED TO THEM?

4 A. We do not expect an organization, department, or
5 agency to commit a resource they do not have. So if
6 they did not have a resource, we would not ask for
7 it. They have not told me that they cannot do their
8 part because they do not have the resources.

9 Q. WOULD ALL REPRESENTATIVES AT THE EOC HAVE A MEANS OF
10 COMMUNICATIONS BACK TO THEIR DEPARTMENTS?

11 A. Yes. By primary telephone.

12 Q. ARE THERE ANY RADIO COMMUNICATIONS FROM THE EOC?

13 A. The radio communications would come out of the
14 communications center, which is adjacent to the
15 assembly room referred to previously. We have
16 sufficient communications to respond and to call in
17 resources as necessary.

18 Q. WHAT IS THE RADIO COMMUNICATIONS FACILITY NORMALLY
19 USED FOR?

20 A. That is normally used for the day-to-day dispatching
21 of the county police department, volunteer fire
22 department and the emergency medical services of
23 Mecklenburg County.

24 Q. IN AN EMERGENCY, WOULD THE COMMUNICATIONS CENTER
25 CONTACT THOSE SAME GROUPS VIA RADIO?

- 1 A. Yes, they would communicate with those groups in
2 addition to other groups on request.
- 3 Q. CAN YOU THINK OF ANY OTHER GROUPS THAT THEY MIGHT
4 WANT TO COMMUNICATE WITH?
- 5 A. We have radio communications with York County,
6 Gaston County and the respective states, and the
7 supporting counties (Union and Cabarras). In
8 addition, we can communicate outside the local
9 telephone network on Duke's Selective Signaling
10 System.
- 11 Q. WITH RESPECT TO COMMUNICATIONS WITH CATAWBA, DO YOU
12 CURRENTLY HAVE RADIO COMMUNICATIONS WITH THE CATAWBA
13 STATION IN YOUR EOC?
- 14 A. Yes.
- 15 A. DO YOU HAVE TELEPHONE COMMUNICATIONS WITH THE CATAWBA
16 STATION?
- 17 A. Yes, we do.
- 18 Q. ARE THERE ANY PLANS TO INSTALL A RING DOWN PHONE
19 SYSTEM IN YOUR EMERGENCY COMMUNICATION CENTER?
- 20 A. There is a recently installed selective signaling
21 system at the EOC and at the county warning point
22 which provides communications with both Catawba
23 Nuclear Station and McGuire Nuclear Stations that is
24 not tied into Land line telephone system; it is tied
25 into a microwave system.

1 Q. IF OVERLOADING OF THE TELEPHONE CIRCUITS OCCURRED
2 DURING A NUCLEAR EMERGENCY AT CATAWBA, WOULD THAT
3 INTERFERE WITH YOUR COMMUNICATIONS WITH THE OTHER
4 DEPARTMENTS AND AGENCIES OF THE MECKLENBURG COUNTY OR
5 CITY OF CHARLOTTE GOVERNMENTS THAT YOU NEED TO
6 COMMUNICATE WITH IN THAT EMERGENCY?

7 A. I do not anticipate that problem. There are enough
8 resources in place on a shift basis and enough
9 methods of contact that we could carry on until
10 additional backup support personnel arrived on the
11 scene at the EOC. We feel there are enough resources
12 in place to get in motion the most critical element
13 associated with activating an EOC or implementing an
14 evacuation process, and there are enough resources
15 available beyond that to drive a car to someone's
16 home if telephone lines are tied up and knock on
17 their door and take them to a location.

18 Q. WOULD OVERLOADING OF THE TELEPHONE CIRCUITS INTERFERE
19 WITH YOUR COMMUNICATIONS WITH THE STATE OF NORTH
20 CAROLINA OR SOUTH CAROLINA SHOULD YOU NEED TO
21 COMMUNICATE WITH THEM?

22 A. As the system is established right now, I would not
23 anticipate any kind of problem associated with an
24 overloaded telephone circuit system; however we do
25 have radio communications with North and South
26 Carolina.

- 1 Q. WOULD TELEPHONE CIRCUIT OVERLOADING INTERFERE WITH
2 YOUR COMMUNICATIONS WITH YORK OR GASTON COUNTIES OR
3 YOUR TWO SUPPORT COUNTIES, CABARRUS AND UNION COUNTY?
4 A. No, it would not. We also have radio communication
5 with them.

1 TESTIMONY OF YORK COUNTY
2 (PHILLIP STEVEN THOMAS) ON
3 EMERGENCY PLANNING CONTENTION 8

4 Q. EMERGENCY PLANNING CONTENTION 8 ALLEGES THAT THE
5 EXISTING EMERGENCY PLANS FAIL TO ESTABLISH CLEARLY
6 SPECIFIC PRIMARY AND SECONDARY RESPONSIBILITIES FOR
7 RADIOLOGICAL EMERGENCY RESPONSE. DO YOU HAVE ANY
8 COMMENT ON CONTENTION 8 AS IT APPLIES TO THE YORK
9 COUNTY PLAN?

10 A. The pertinent responsibilities are set forth at Part
11 I.E, Part IV.B. and Annexes A and Q of the York
12 County Emergency Operations Plan. Based on the
13 recent emergency planning exercises, we feel that
14 primary and secondary responsibilities for the
15 different tasks are clearly assigned in the York
16 County plan. Each different component of our Annex Q
17 has an agency head or agency chief who is aware of
18 his role and his responsibility and who he looks to
19 perform particular tasks. Allocation of duties was
20 not a problem during the exercise; it all went off
21 well and everybody performed their tasks adequately.
22 I don't see it being a problem. In some instances,
23 we do call on more than one department to be involved
24 in a single function. There could be an overlap in
25 some areas, but we see this as being a positive as
26 opposed to a negative. Where we recognize resources
27 becoming thin in one area, we have a number of other
28 people and/or equipment that we can draw on even

1 though they may be committed to do something else in
2 addition. Everyone is very aware and understands who
3 is in charge and what particular function is taking
4 place. There is no commitment of resources or
5 materials or personnel at two places at one time.
6 There is a record keeping/bookkeeping procedure so we
7 know where resources are committed and where and when
8 they are freed up. So it was no problem during the
9 exercise and we do not see it as being a problem.

10 Q. WHAT PHYSICAL FACILITIES DOES THE COUNTY HAVE FOR
11 EMERGENCY RESPONSE IN A RADIOLOGICAL EMERGENCY?

12 A. We have the York County Emergency Operations Center
13 (EOC) which is located at the City Hall in Rock Hill.
14 We also have the major warning point, which is the
15 York County Sheriff's Department located on Cherry
16 Road in Rock Hill, South Carolina. We have three
17 decontamination sites for equipment and emergency
18 workers that are located at rural fire departments at
19 different geographical areas in the county.

20 Q. WHAT COMMUNICATIONS CAPABILITIES DOES YORK COUNTY
21 HAVE FOR COORDINATING THE RADIOLOGICAL EMERGENCY
22 RESPONSE?

23 A. As far as communications, we have the normal
24 telephone communications as we would in our normal
25 operations with internal lines coming in. We have an
26 additional seven dedicated private lines which are

1 used for emergency operation purposes during an event
2 or an exercise. We have a communications section
3 located in the EOC. We are currently in the process
4 of upgrading our communications equipment and will
5 complete this effort by mid-1984.

6 Q. ARE THERE ANY RADIO COMMUNICATIONS CAPABILITIES?

7 A. Our radio communications section is in the dedicated
8 communications area of our EOC. In this area, we
9 have several different base stations.

10 Q. ARE YOU ABLE TO COMMUNICATE WITH EVERY COUNTY OR
11 STATE DEPARTMENT THAT WOULD BE INVOLVED IN A RESPONSE
12 TO A RADIOLOGICAL EMERGENCY?

13 A. We are in the process of upgrading our capability.

14 Q. CAN YOU ESTIMATE WHEN YOU WILL COMPLETE THE
15 UPGRADING?

16 A. Yes, by mid-1984.

17 Q. WHAT KINDS OF COMMUNICATIONS DO YOU HAVE WITH THE
18 CATAWBA STATION?

19 A. We now have normal telephone communication. We have
20 two-way radio communication through a base station
21 located in the communications room, and we will
22 eventually have a ring-down phone located in the EOC.
23 A ring-down phone is a microwave instrument that
24 allows all the parties to talk together at the same
25 time.

- 1 Q. CAN YOU ESTIMATE WHEN YOU WILL HAVE RING DOWN PHONE
2 COMMUNICATIONS WITH THE CATAWBA STATION?
- 3 A. We anticipate having it by June 1, 1984.
- 4 Q. IS THERE ANY WAY THAT OVERLOADING THE TELEPHONE
5 CIRCUITS, IF THAT OCCURRED, WOULD INTERFERE WITH YOUR
6 COMMUNICATIONS WITH THE OTHER DEPARTMENTS AND
7 AGENCIES OF YORK COUNTY GOVERNMENT THAT YOU NEED TO
8 COMMUNICATE WITH IN A RADIOLOGICAL EMERGENCY?
- 9 A. No, it would not. First, I believe that as the first
10 point of contact I would be called so quickly that
11 there would not be time for the phones to be tied up.
12 Second, the EOC will have Class A protective service
13 that will operate without danger of overloading.
- 14 Q. WOULD OVERLOADING OF THE TELEPHONE CIRCUITS INTERFERE
15 WITH YOUR COMMUNICATIONS WITH THE STATE OF SOUTH
16 CAROLINA OR THE STATE OF NORTH CAROLINA SHOULD YOU
17 HAVE THE OCCASION TO TALK TO THEM?
- 18 A. Overloading the phones would not cause any problems
19 with that.
- 20 Q. WOULD TELEPHONE OVERLOADING INTERFERE WITH YOUR
21 COMMUNICATIONS WITH THE CATAWBA NUCLEAR STATION?
- 22 A. After April 1984, it would not, due to the selective
23 signaling system. We will be able to talk with them
24 directly.
- 25 Q. IS YOUR COMMUNICATION SYSTEM WITH THE PLANT A WIRE
26 SYSTEM OR MICROWAVE OR RADIO?

1 A. It is a microwave system.

2 Q. WOULD TELEPHONE CIRCUIT OVERLOADING INTERFERE WITH
3 YOUR COMMUNICATIONS WITH THE TWO NORTH CAROLINA
4 COUNTIES - MECKLENBURG AND GASTON COUNTY?

5 A. No. Communication with Gaston and Mecklenburg
6 counties could be accomplished through the same
7 method, using the selective signaling system as well
8 as Duke radio.

9 Q. BEYOND WHAT THE PLAN OR WHAT THE OPERATING PROCEDURES
10 MAY CALL FOR, ARE YOU SATISFIED THAT EVERYBODY WHO IS
11 INVOLVED IN THE EMERGENCY PLAN AT THE COUNTY LEVEL IN
12 THE CAPACITY OF DIRECTING OTHER PEOPLE KNOWS WHAT IS
13 EXPECTED OF HIM OR HER?

14 A. Yes, I feel very comfortable. I felt comfortable
15 going into the exercise and it was reinforced during
16 the exercise. Everyone did a superb job.

17 Q. HAVE YOU PERSONALLY SPOKEN WITH EACH OF THE PRINCIPAL
18 HEADS OR DIRECTORS OF THESE ORGANIZATIONS?

19 A. Yes, I have spoken to everyone in the course of my
20 handling this particular position.

21 Q. IN EACH CASE WILL THE ORGANIZATION HAVE THE RESOURCES
22 TO RESPOND AS NEEDED?

23 A. ..

24 Q. DOES EACH ORGANIZATION HAVE AN ADEQUATE UNDERSTANDING
25 OF THE COMMAND AND CONTROL FUNCTIONS?

26 A. Absolutely.

1 Q. DO THEY UNDERSTAND WHO IS IN CHARGE?

2 A. Yes.

3 Q. GIVEN THAT THERE WILL BE PERSONNEL TURNOVER OVER THE
4 YEARS, HOW WILL YOU BE ASSURED THAT PEOPLE NEW TO THE
5 JOB ARE AWARE OF THEIR RESPONSIBILITIES AND ARE ABLE
6 TO CARRY THEM OUT?

7 A. We address just that through seminars, exercises,
8 plan updates, and training sessions with the
9 different entities of the EOC.

10 Q. THE INTERVENORS ALSO ASSERT IN CONTENTION 8 THAT
11 THERE MAY BE SOME CONFUSION OR AMBIGUITY ABOUT WHO
12 HAS WHAT AUTHORITY DURING THE TIME THAT SOUTH
13 CAROLINA OFFICIALS ARE ON ROUTE FROM COLUMBIA TO THE
14 FORWARD EMERGENCY OPERATION CENTER (FEOC). WHAT IF
15 ANY AUTHORITY DOES YORK COUNTY HAVE DURING THAT
16 PERIOD? FOR EXAMPLE, CAN THE COUNTY ACTIVATE SIRENS
17 AND INITIATE EMERGENCY BROADCASTS?

18 A. During that interim between the time the State
19 Emergency Operation Center (SEOC) in Columbia, South
20 Carolina is open and four hours later when the
21 Forward Emergency Operations Center (FEOC) outside of
22 Clover, South Carolina would become operational, York
23 County has the ability to respond to whatever
24 directions or information is provided by the Catawba
25 plant and carry it out, up to and including
26 requesting evacuation of specific areas. After a

1 state of emergency is declared by the Governor the
2 state assumes responsibility for offsite direction
3 and control of the emergency. Prior to that time it
4 is a local government responsibility.

5 Q. AT WHAT POINT WILL YOU HAVE COMMUNICATIONS WITH THE
6 SEOC IN COLUMBIA?

7 A. The SEOC in Columbia and the warning point in York
8 County (which is the sheriff's department in Rock
9 Hill) will be notified at the same time. They will
10 become operational there as rapidly as possible, just
11 as we will, and as soon as we are open at the EOC in
12 Rock Hill, we will be able to talk with them over the
13 phones or via radio or whatever is necessary. The
14 SEOC will be in contact with us as rapidly as we are
15 open.

16 Q. IF IT IS NECESSARY TO RECOMMEND SHELTERING OR
17 EVACUATION IN YORK COUNTY BEFORE STATE OFFICIALS TAKE
18 OVER, DO YOU HAVE AUTHORITY TO MAKE THOSE
19 RECOMMENDATIONS TO THE PUBLIC?

20 A. Yes.

21 Q. WOULD YOU HAVE TO CLEAR YOUR RECOMMENDATIONS FOR
22 SHELTERING OR EVACUATION WITH THE GOVERNOR'S OFFICE
23 IN COLUMBIA?

1 A. Under these assumptions, no. If time permitted, we
2 would discuss our options with the State, but we do
3 not have to clear it or get any kind of prior
4 approval.

5 Q. DURING THE TIME THAT THE COUNTY HAS AUTHORITY TO
6 DIRECT EMERGENCY OPERATIONS CAN YOU CALL UPON ANY
7 STATE RESOURCES IF YOU NEED THEM?

8 A. Yes, as we depleted our resources, we could call upon
9 the highway patrol, for example, to support our law
10 enforcement officers.

11 Q. ARE THERE ANY COUNTY RESOURCES FROM COUNTIES OTHER
12 THAN YORK THAT YOU COULD CALL UPON?

13 A. We have letters of agreement with all of our
14 surrounding counties for just this purpose.

15 Q. WHAT SORT OF RESOURCES MIGHT YOU GET FROM THOSE
16 COUNTIES, FOR EXAMPLE?

17 A. We could get personnel or equipment such as school
18 buses or radiological monitors, etc.

19 Q. WHAT DECISIONS, IF ANY, WOULD YOU COORDINATE WITH
20 GASTON AND MECKLENBURG COUNTIES IN NORTH CAROLINA?

21 A. Two that come in mind would be the activation of the
22 sirens for warning purposes and the content of the
23 EBS message.

24 Q. HOW WOULD THESE ACTIONS BE COORDINATED?

1 A. Our intent is for the sirens to simultaneously go off
2 in all three counties. This would be followed by the
3 EBS message being broadcasted simultaneously in all 3
4 counties.

5 Q. HOW WILL THE COORDINATION WITH GASTON AND MECKLENBURG
6 COUNTIES BE ACHIEVED?

7 A. Through a selective signaling system. We can talk
8 with both Mecklenburg and Gaston Counties at the same
9 time. It's like a large party line.

10 Q. WHO ELSE MIGHT BE INCLUDED IN THESE EMERGENCY
11 CONFERENCE CALLS?

12 A. When the warning points are at different locations
13 than the EOC, there would be additional people on the
14 line, such as the people that activate the sirens.

SUMMARY OF EDUCATIONAL TRAINING,
PROFESSIONAL QUALIFICATIONS,
AND WORK EXPERIENCE OF
STAN D. COLEMAN, JR.

I received a B.S. degree in Electrical Engineering in 1973 from Clemson University. My area of course specialization within Electrical Engineering was Communications. I was elected to ETA KAPPA NU, Honorary Society of Electrical Engineering. I hold an F.C.C. Second Class Radio Telephone Operator License and a General Class Amateur "HAM" Radio License. I was hired into the System Communications group as a Junior Engineer in January, 1974. I have engineered microwave, radio, data, and telephone communications systems for Duke Power. I have served as Project Engineer for the following major projects:

- a) System-wide radio paging network
- b) After-hours Remote Radio Base Station Control System
- c) Network telephone tandem switch

I have been promoted to Engineer Associate, Assistant Design Engineer, and in January of 1983, I was promoted to Design Engineer with supervision responsibilities for Two-way Radio and Paging and Telephone Switching Systems. I currently supervise 1 Engineer Assistant and 5 Senior Engineering Assistants. I am active in Utilities Telecommunications Council and have recently been elected to a 2-year term as Region III, North, Frequency Coordinator for the Power Radio Service.

My professional experience includes 4 years' service in the Gastonia Unit of the National Guard, 2 years' active duty in the U.S. Army (1954-56), 6 years' service in the Army Reserves. After serving my military tour of duty, I was employed by Burlington Mills during 1956-1957 and by the U.S. Postal Service from 1957-1964. [As a postal clerk, my duties consisted of distributing mail enroute to railway and highway post offices all over the southeastern United States. I left this job when private contractors took over these routes.] I then worked for Macke Vending Company in Charlotte during 1964-1965.

Beginning in 1965, I worked with the Gaston County Rural Police Department as a patrolman, patrol sergeant (1968-1972), lieutenant (1973-1975), and department Training Officer (1975-1979). In December, 1979, I became Gaston County's Director of Emergency Services, the position I now hold.

I have held responsible positions in several organizations, including past president of the Gaston County Law Enforcement Association, past president of the Southern Piedmont Law Enforcement Training Association, and past president of the Southern Piedmont Explosive Disposal team. I am currently a certified law enforcement officer with the Gaston County Auxiliary Police.