Applicants EP #13

## 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

A-EP-13 5/3/84
PROD. & UTIL. FAC. 50-4/3/4/4 OC

## APPLICANTS' TESTIMONY ON EMERGENCY PLANNING CONTENTION 3

North Carclina South Carelina

Gaston County Mecklenburg County Red Cross Salvation Army

(James Edward Neves, J.T. Pugh, III) (J. Gregory, Jr., P.R. Lunsford, W.M. McSwain, (Bob E. Phillips) (Lewis Wayne Broome) (Dennis Johnson) (Philip Needham)

April 16, 1984

NUCLEAR REGULATORY COMMISSION Docket No. 50-413-414 OL Official Exh. No. FP-13
In the matter of Calawba IDENTIFIED \_ Applicant\_ ESTICIED Cer 's Ch'r

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1 2 3		TESTIMONY OF THE STATE OF NORTH CAROLINA (JAMES EDWARD NEVES AND J.T. PUGH, III) ON EMERGENCY PLANNING CONTENTION 3
4		Background Information on Mr. Neves
5	Q.	WHAT IS YOUR FULL NAME?
6	Α.	My full name is James Edward Neves. (JEN)
7	Q.	WHAT IS YOUR BUSINESS ADDRESS AND YOUR JOB
8		DESCRIPTION AT THIS TIME?
9	Α.	I am the Regional Director of the State Division of
10		Social Services for the Western Region of North
11		Carolina which covers the 34 western counties
12		including Mecklenburg, Union, Gaston, and Stanley.
13		My business address is Department of Human Resources,
14		Western Regional Office, Division of Social Services,
15		Building 17, Black Mountain, North Carolina 28711.
16		(JEN)
17	Q.	WOULD YOU PLEASE SUMMARIZE YOUR JOB DUTIES?
18	Α.	My job is to oversee a staff in the regional office
19		and out of our stations throughout the 34 counties
20		who supervise for the state the county-administered
21		social services programs in the 34 western counties
22		of North Carolina. I also serve as a member of the
23		State Emergency Response Team for actions in those 34
24		counties as it relates to emergency activities and
25		our responsibility for sheltering citizens in the
26		event of emergencies. (JEN)
27	Q.	WOULD YOU ALSO SUMMARIZE YOUR EDUCATIONAL BACKGROUND?

- 2 -

- 1 A. I am a graduate of Western Carolina University,
- 2 having acquired a B.S. in psychology, with a
- 3 concentration in social welfare. I have done a
- 4 year's graduate work in social work at the University
- of North Carolina at Chapel Hill, and for the last
- 6 year or so I have been taking business courses
- 7 through the University of North Carolina in
- 8 Asheville. (JEN)
- 9 O. HOW LONG HAVE YOU BEEN IN YOUR CURRENT JOB?
- 10 A. I have been the Regional Director for about 5 1/2
- 11 years. (JEN)
- 12 O. WHAT WAS THE NATURE OF YOUR EMPLOYMENT PRIOR TO YOUR
- 13 BEING REGIONAL DIRECTOR?
- 14 A. I was an employee of the Department of Human
- 15 Resources, Title 20 Planning Section, for a year. I
- 16 was the Assistant Regional Director of Social
- 17 Services for about a year and a half prior to that.
- 18 For the four years previous, I was the County
- 19 Director of Social Services in Jackson County, Sylva,
- 20 North Carolina. (JEN)
- 21 O. HAVE YOU HAD ANY OTHER EMPLOYMENT EXPERIENCE
- 22 SUBSEQUENT TO RECEIVING THE DEGREES THAT YOU
- 23 MENTIONED?
- 24 A. I was a social worker in both Swain and Jackson
- 25 Counties and had one year of teaching experience
- 26 immediately after graduation. (JEN)

- 3 -

1 0.	DO	YOU	HAVE	ANY	BACKGROUND	EXPERIENCE	IN	EMERGENCY
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- 2 PLANNING?
- 3 A. I participated in several emergency exercises,
- 4 primarily those related to the McGuire Nuclear
- 5 Station. I have not been a part of the team
- 6 formulating emergency plans and have no specific
- 7 training in that area other than as a participant.
- 8 (JEN)
- 9 Q. HAVE YOU HAD ANY BACKGROUND EXPERIENCE IN EVACUATING
- 10 PEOPLE?
- 11 A. During the emergency exercises relating to McGuire, I
- 12 was involved in evacuation activities that were
- 13 carried out as part of those exercises. (JEN)
- 14 O. HAVE YOU HAD ANY EXPERIENCE GETTING FOOD AND CLOTHING
- 15 TO PEOPLE?
- 16 A. Only during the McGuire exercises. During one of
- 17 those exercises a year ago we did actually open a
- number of shelters and we were responsible for
- 19 delivering food and for feeding those evacuees in the
- 20 shelters. While the exercise was a mock emergency,
- 21 the individuals were indeed physically housed, fed,
- 22 and cared for during the time they were present as
- 23 volunteer evacuees in those shelters. (JEN)
- 24 Q. HAVE YOU HAD ANY EXPERIENCE WITH DECONTAMINATION OF
- 25 PEOPLE FOLLOWING A RADIOLOGICAL EMERGENCY?

1	Α.	Only as a monitor of that activity along with other
2		shelter activities during the most recent exercise
3		relative to the Catawba station. (JEN)
4		EPC-3 Testimony
5	Q.	DOES THE STATE PLAN ADDRESS THE MATTERS RAISED BY
6		EMERGENCY PLANNING CONTENTION 3?
7	Α.	Yes, in Part 1, Section IV.E of the N.C. State Plan.
8	Q.	DOES THE STATE PLAN PROVIDE FOR FOOD, CLOTHING, AND
9		BEDDING TO BE STORED AT SHELTERS FOR POTENTIAL
10		EVACUEES?
11	Α.	Planning calls for food, clothing, and bedding to be
12		provided from stores maintained by the counties, the
13		State Departments of Agriculture and Correction, U.S.
14		Department of Agriculture, and the Red Cross. The
15		initial supply of prepared foods would be made
16		available from the closest correctional facility.
17		The Red Cross and contiguous counties could furnish
18		blankets and cots within four to six hours with
19		larger quantities available within 24 hours. The
20		agencies responsible, i.e., Red Cross, Department of
21		Corrections, Department of Human Resources, and
22		Department of Agriculture, have signed the plan
23		thereby accepting responsibility for their assigned
24		mission. No materials are stored in shelters on an
25		on-going basis. However, the counties in North
26		Carolina involved with the Catawba Plant have 1,000

- 5 -

1		cots distributed equally among five counties. The
2		Salvation Army is another available source of
3		assistance in providing for evacuees. (JTP)
4	Q.	FROM WHAT SOURCES WILL THE FOOD, CLOTHING, AND
5		BEDDING BE OBTAINED?
6	Α.	There are storage facilities that Emergency
7		Management has identified as well as Red Cross where
8		cots and other bedding materials are located in all
9		areas of the State. These entities would be better
10		able to give you the specific information as to where
11		that bedding would come from. Adequate clothing and
12		food will be provided through the North Carolina
13		Department of Corrections. This office will
14		coordinate the delivery of such food and clothing and
15		assure its delivery in a prompt fashion. (JEN)
16		Initial supplies of food could be delivered
17		within four to five hours. Large amounts of food are
18		available at public schools as well as Department of
19		Agriculture warehouses. Food availability for the
20		area surrounding Charlotte-Mecklenburg which could be
21		utilitized during a disaster or emergency condition
22		includes the following:
23		- dry goods - 34,347 tons
24		- canned goods - 44,593 tons

1		- perishables - 10,684 tons
2		- dairy products - 3,343 tons
3		- bakery products - 3,651.5 tons (JEN)
4	Q.	FOR THE 38 IDENTIFIED SHELTERS, WHAT IS THE PRESENT
5		SUPPLY OF COTS, MATRESSES, AND BLANKETS?
6	Α.	These items would be brought in from the Red Cross
7		and other institutions. Clothing and bedding from
8		the Department of Correction could be loaded and
9		ready for shipment to the emergency site within three
10		hours. The Red Cross could furnish additional
11		blankets and cots within 4 to 6 hours. They could
12		also furnish within 24 hours 15,250 cots and 44,000
13		blankets available from their eastern region
14		operations. The Red Cross has 1,200 cots and 300
15		blankets stored at the Fort Bragg Army Base, and 600
16		blankets stored at Seymour Johnson Air Base for
17		delivery to on-site within four to six hours.
18		Representatives of the Salvation Army have indicated
19		that within four to six hours they will provide
20		clothing in the quantities shown in Mr. Needham's
21		testimony. There are approximately 2,000 cots and
22		1,000 blankets available at Red Cross Chapters
23		throughout the state that could be on-site within

- 7 -

1		four to six hours. Additionally, the surrounding
2		counties have 1,000 cots on hand. In summary, there
3		are 15,250 cots and 44,000 blankets that could be
4		on-site in 24 hours and 4,200 cots and 1,900 blankets
5		for delivery at the incident within four to six
6		hours. (JTP)
7	Q.	WHAT IS THE PRESENT ACTUAL STOCK OF FOODSTUFF AND
8		BEVERAGES? WHERE IS IT STORED?
9	Α.	These items would be brought in from the Department
10		of Agriculture and the Department of Correction
11		warehouses. Initial supply of prepared foods would
12		be made available from the closest Agriculture
13		Department warehouse in Salisbury. Agriculture also
14		has a central warehouse located in Butner. The North
15		Carolina counties involved with the Catawba Plant
16		have a three to four weeks supply of food that could
17		be made available through the county school system
18		warehouses. The attached chart, marked as Attachment
19		A, identifies the Red Cross and U.S. Department of
20		Agriculture food commodities. (JEN)
21	Q.	HAVE YOU SATISFIED YOURSELF THAT THE SUPPLIES OF
22		THESE NECESSITIES ARE ADEQUATE TO MEET THE NEED?
23	Α.	Yes. We are satisfied we have adequate supplies to
24		meet most contingencies, and we still have the option
25		to solicit aid from adjoining states, and the federal

26

government. (JEN, JTP)

- 1 O. HOW DID YOU GO ABOUT ESTIMATING THE POTENTIAL NEED?
- 2 A. The total population within the Emergency Planning
- Zone in the State of North Carolina was used as the
- 4 criterion for estimating our potential needs. (JTP,
- 5 JEN)
- 6 O. ARE THERE SOURCES FOR FURTHER SUPPLIES OF THESE
- 7 NECESSITIES SHOULD THAT BE REQUIRED FOR ANY REASON?
- 8 A. Practically unlimited supplies are available from
- 9 unaffected areas of the state and contiguous state
- 10 and federal sources. Depending on the number of
- 11 citizens needing assistance and the duration of the
- 12 emergency we might very well solve our supply needs
- 13 by contacting institutional stores controlled by the
- 14 Department of Correction. We could draw on these
- 15 stores for a considerable period based on their
- 16 running inventories. We plan to use these supplies
- 17 as in any other emergency. Providing supplies for
- 18 this emergency is the same as for all other
- 19 emergencies or disasters planned for within the
- 20 State. (JTP, JEN)
- 21 O. TO WHAT EXTENT HAVE YOU MADE ARRANGEMENTS TO AVAIL
- 22 YOURSELF OF THESE ADDITIONAL RESOURCES?
- 23 A. Resources available require no prior arrangements.
- 24 The state and local agencies from which the resources
- 25 will come are equipped for responding to emergencies
- 26 and only phone calls will be necessary to furnish

- 9 -

- on-site support. These supplies fluctuate from week
- 2 to week; however, the supplies are always
- 3 substantial. The Secretary of the Department of
- 4 Correction has signed the Catawba plan, and a
- 5 telephone call is all that will be required to
- 6 release any needed resources of food. Bedding,
- 7 clothing, and cots will also be available from the
- 8 Red Cross and Salvation Army as well as local
- 9 government. (JTP, JEN)
- 10 Q. DOES THE STATE RELY SOLELY UPON 14 RECEPTION
- 11 CENTERS/SHELTERS FOR PROCESSING AND REGISTERING EPZ
- 12 RESIDENTS? IF NOT, PLEASE DESCRIBE YOUR PLANS IN
- 13 THIS AREA.
- 14 A. North Carolina presently has 38 shelters which have
- been designated to support the Catawba Plan. There
- 16 will be no reception centers. Evacuees will be
- 17 registered only at these shelter sites. (JTP)
- 18 Q. HOW MANY PERSONS CAN THE 38 SHELTERS HANDLE UNDER THE
- 19 CATAWBA PLAN?
- 20 A. We are prepared for the worse case situation and can
- 21 handle in these shelters at least 70,000 to 80,000
- 22 evacuees. (JTP)
- 23 O. DO YOU ANTICIPATE THAT REGISTRATION OF POTENTIAL
- 24 EVACUEES WILL POSE ANY PROBLEMS OF OVERCROWDING OR
- 25 DELAY OF EVACUATION?
- 26 A. No. (JTP)

- 1 Q. IN THE EVENT OF OVERCROWDING, WHAT STEPS WILL YOU
- 2 TAKE?
- 3 A. If there is overcrowding, we would be able to
- 4 activate additional shelters, as needed, in six or
- 5 seven surrounding counties. (JTP)
- 6 Q. WHAT REGISTRATION PROCEDURES WILL BE FOLLOWED?
- 7 A. Standard Red Cross procedures will be utilized.
- 8 These procedures were established in consultation
- 9 with the division of Social Services. (JTP)
- 10 Q. WHO WILL ADMINISTER THOSE PROCEDURES?
- 11 A. The assigned shelter registrar and the first evacuees
- 12 arriving will assist as necessary. The number of
- registrars can be expanded or contracted to meet the
- need. To expand, the early evacuees are utilized to
- assist with the registration process and shelter
- operations. Adequate staffs have been assigned
- 17 within the plan. (JTP)
- 18 Q. DOES THE AGENCY OR INSTITUTION WHICH WILL ADMINISTER
- 19 THOSE PROCEDURES HAVE EXPERIENCE IN ADMINISTRATION OF
- 20 SHELTERS AND REGISTERING EVACUEES IN OTHER EVACUATION
- 21 SITUATIONS?
- 22 A. Yes. In the area of the Catawba Nuclear Plant the
- 23 Red Cross and Department of Social Services are
- 24 responsible for shelter administration. Each has
- 25 experience in the administration of shelters, having
- 26 successfully handled the victims of the 1977 floods,

1		the recent 1983 chemical spill in Iredell County, the
2		most recent tornado disaster, as well as numerous
3		other actual evacuations. This experience has been
4		further enhanced by several exercises and specialized
5		training. (JTP)
6	Q.	WHAT CRITERIA HAVE THE STATES AND COUNTIES USED IN
7		ESTABLISHING SHELTER CAPACITIES? DOES THE
8		AGENCY/INSTITUTION WHICH WILL ADMINISTER THE SHELTERS
9		AGREE WITH YOUR SHELTER CAPACITY ESTIMATES?
10	Α.	The criteria that the state and counties are using is
11		based on the National Shelter Survey Instructions
12		TR-84 dated May, 1982, Federal Emergency Management
13		Agency. The criteria allots 40 square feet per
14		person in shelters. This 40 square feet per person
15		has proven adequate to date based on actual
16		experience during exercises. The Red Cross and
17		Social Services have concurred in the 40 square feet

18 per person criteria. (JTP)

1 2 3		TESTIMONY OF THE STATE OF SOUTH CAROLINA (J. GREGORY, JR. AND P.R. LUNSFORD) ON EMERGENCY PLANNING CONTENTION 3
4		Background Information on Mr. Gregory
5	Q.	PLEASE STATE YOUR NAME AND ADDRESS, MR. GREGORY.
6	Α.	My name is James Gregory, Jr., South Carolina
7		Department of Social Services, 1535 Confederate
8		Avenue Extension, Columbia, South Carolina, 29202.
9		(JG)
10	Q.	PLEASE STATE YOUR PRIOR PROFESSIONAL EXPERIENCE.
11	Α.	I am retired as a Senior Master Sergeant from the
12		United States Air Force. I have an associate degree
13		in business management and was employed as a planner
14		with the South Carolina Emergency Preparedness
15		Division from March, 1981, to April, 1983., I am
16		presently employed as an Emergency Welfare Service
17		Planner with the Department of Social Services. I
18		have served in this position since May 1983. (JG)
19	Q.	WHAT IS YOUR PRIMARY DUTY?
20	Α.	I assist county and state governments in their
21		emergency welfare service planning. (JG)
22		EPC-3 Testimony
23	Q.	WHAT IS THE PURPOSE OF YOUR TESTIMONY?
24	Α.	The purpose of my testimony is to testify with regard
25		to CESG and PA Contention 3. (JG)
26	Q.	IS THIS SUBJECT ADDRESSED IN THE STATE PLAN?

- 1 A. Yes, in Annex 5 of the Catawba Site Specific Plan and
- 2 Figure 12 of that Site Specific Plan. (JG)
- 3 O. ARE YOU FAMILIAR WITH THE STATE AND COUNTY EMERGENCY
- 4 WELFARE SERVICE PLANS FOR SOUTH CAROLINA?
- 5 A. Yes, I am. (JG)
- 6 O. HOW DID YOU GAIN FAMILIARITY WITH THESE PLANS?
- 7 A. My familiarity with the plans was acquired by
- 8 reviewing and reading the plans and in working with
- 9 them. (JG)
- 10 Q. WHERE IN THE SOUTH CAROLINA PLAN ARE EMERGENCY
- 11 RESPONSE FACILITIES, SPECIFICALLY SHELTERS,
- 12 ADDRESSED?
- 13 A. Annex B and Part IV.B.6 of the S.C. Site Specific
- 14 Plan. (WM)
- 15 Q. WHAT ABOUT FOOD, CLOTHING, AND BEDDING?
- 16 A. It is listed in the York County/State of South
- 17 Carolina Resources List. This is a supporting
- 18 document. (WM)
- 19 Q. DOES THE STATE PLAN PROVIDE FOR FOOD, CLOTHING, AND
- 20 BEDDING TO BE STORED AT SHELTERS OR TO BE BROUGHT TO
- 21 SHELTERS?
- 22 A. There is no arrangement to store food, clothing, or
- 23 bedding at shelters in the counties which would host
- 24 evacuees from York County: however the schools will
- 25 have a food supply as part of their normal operation
- 26 during the school year. There are no plans to store

- 1 materials at shelters on an ongoing basis. Food,
- 2 clothing, and bedding would be obtained from several
- 3 additional sources: the Red Cross, Salvation Army,
- 4 and existing stocks that are controlled by the State
- 5 and/or the federal government. (JG, WM)
- 6 Q. PLEASE DESCRIBE HOW COTS, BLANKETS, ETC. WILL BE
- 7 FURNISHED TO THE SHELTER.
- 8 A. Cots and blankets will be supplied by the American
- 9 Red Cross. There is no plan to stock bedding in the
- 10 shelters. The state and county plans provide that
- 11 clothing and bedding be brought to shelters for
- 12 evacuees. (JG, WM)
- 13 O. HOW WILL FOOD AND BEVERAGES BE SUPPLIED TO THE
- 14 SHELTER?
- 15 A. There is existing food at the schools in the
- 16 lunchroom stocks that would last for several days.
- 17 That would customarily be turned over if the school
- 18 were to be made a shelter. (WM)
- 19 Schools used for shelters will have enough food
- on hand to feed at least two meals to evacuees
- 21 assigned. The food level at the schools varies at
- 22 different times of the year. Any potential shortfall
- 23 in the supplies will be made up by the Red Cross.
- 24 There will be enough food within each host county

school system to provide at least two meals for evacuees sheltered in other buildings such as churches. (JG) Seven commercial food distributors' warehouses are used to store USDA food for the South Carolina 5 schools. The two warehouses which supply the schools and the counties which would be host to the evacuees within the 10-mile EPZ are Biggers Brothers Wholesale Food Distributors in Charlotte, North Carolina, and Pearce-Young-Angel Company in Columbia, South 10 Carolina. These distributors store as many as 50 11 USDA food items such as cheese, meat, peanut butter, 12 canned vegetables, flour, and rice. The level of 13 school food varies at different times of the year. 14 Any shortfall in such supplies will be made up by the 15 Red Cross. (JG) 16 HOW MUCH FOOD IS PRESENTLY ON HAND? 17 It is my understanding that on September 30, 1983, 18 Biggers Brothers had 7,200 cases of USDA food on 19 hand. Pearce-Young-Angel had 9,500 cases of USDA 20 food on hand. In addition, most schools have a 21 minimum of five days' food on hand. (JG) 22 Listed below are the average number of meals fed 23 per day in the particular counties which when 24 multiplied by 5 will give a fair estimate of the 25

potential meals on hand. (JG)

26

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Cherokee County Schools - 7,200 meals per day
Chester County Schools - 4,750 meals per day
2
         Fairfield County Schools - 3,400 meals per day
3
         Lancaster County Schools - 7,500 meals per day
4
                                     4,210 meals per day
         Union County Schools -
5
                                    12,000 meals per day
6
         York County Schools -
                                     39,210
7
                    Total
                                         x5 days supply
8
                                    196,050 potential meals on
9
                                            hand
10
        HOW MUCH BEDDING IS ON HAND?
11
    0.
         This information was obtained from Mr. Dennis
12
    A.
         Johnson, ARC Disaster Specialist, Charlotte, North
13
         Carolina. Below are listed the quantities of cots
14
         and blankets which the American Red Cross could
15
         supply within the first 48 hours following an
16
         evacuation of the 10-mile EPZ of the Catawba
17
         facility. (JG)
18
19
               1. Cots
                   Time
                                       Ouantity
20
                                       26,000
                   within 24 hours
21
                                       33,000 additional
                   within 48 hours
22
                   Total in 48 hours 59,000 cots
23
               2. Blankets
24
                                       Quantity
                   Time
25
                                        61,000
                   within 4 hours
26
27
                   within 48 hours
                                       123,000 additional
                                       184,000 blankets within
28
                           Total
                                                48 hours
29
         HOW MUCH CLOTHING IS AVAILABLE?
30
    0.
         This information was obtained from the Salvation
31
    A.
          Army, Charlotte, North Carolina, Major Phil Needham,
32
         Divisional Secretary. The listing is for sets of
33
         clothing such as trousers and shirt, skirt and blouse
34
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1		or a dress and is for South Carolina only. There are
2		also large quantities of coats and shoes available.
3	3	The Salvation Army could supply the transportation
4		for the c'othing from the twenty thrift shops in
5		South Carolina to the counties where the cothing
6		would be required. Resources would also be available
7		from adjoining states if needed. (JG)
8		1. Adult Clothing Available
9		Time Male Female
10		within 4 hours 1,200 sets 2,000 sets within 24 hours 1,500 sets 3,000 sets additional Total in 24 hrs. 2,800 sets 5,000 sets
1.3		2. Children's Clothing Available
14		Time Male Female
15 16 17		within 4 hours 1,700 sets 1,100 sets within 24 hours 1,800 sets 1,700 sets additional 70tal in 24 hrs. 3,500 sets 2,800 sets
18	Q.	HAVE YOU SATISFIED YOURSELVES THAT THE SUPPLIES OF
19		THESE NECESSITIES ARE ADEQUATE TO MEET THE NEED?
30	A.	Yes we have. We are confident that along with the
21		Red Cross and Salvation Army we can adequately meet
22	1	the needs of the evacuees. Additionally, we can look
23		to our adjacent states with which we have mutual aid
24		agreements as well as the Federal Government. (JG)
25	Q.	HOW DID YOU GO ABOUT ESTIMATING THE POTENTIAL NEED?

- 7 -

- 1 A. The potential needs of the evacuees were estimated by
- 2 using a "worst case" scenario resulting in the
- 3 evacuation and hosting of the total population within
- 4 the 10-mile EPZ of the Catawba Nuclear Plant. That
- is approximately 85,000 people. (PL, WM, JG)
- 6 Q. HOW LONG WILL IT TAKE TO BRING SUCH SUPPLIES TO THE
- 7 SHELTER?
- 8 A. I can give you the recent example of the tornado in
- 9 Marlboro County: within two days, I believe, there
- 10 were 1000 cots available on the site. (PL, WM)
- 11 O. PRIOR TO THOSE COTS BEING MADE AVAILABLE, WHERE DO
- 12 THE PEOPLE SLEEP?
- 13 A. They were with friends, neighbors, they were in
- 14 shelters that were established in two schools and two
- 15 churches. (PL, WM)
- 16 O. WITH RESPECT TO THE SMELTERS, IN THE SCHOOLS AND
- 17 CHURCHES, DID THE PEOPLE SUFFER GREATLY BECAUSE THEY
- 18 DID NOT HAVE COTS?
- 19 A. No. (PL, WM)
- 20 Q. WERE THE PEOPLE, IN YOUR JUDGMENT, ADEQUATELY TAKEN
- 21 CARE OF?
- 22 A. Yes. (PL, WM)
- 23 O. ARE THERE OTHER SOURCES OF SUPPLIES THAT THE STATE
- 24 COULD CALL ON IN THE EVENT OF AN EMERGENCY AT
- 25 CATAWBA? FOR EXAMPLE, FOOD, CLOTHING AND BEDDING?

- 8 -

1	Α.	Yes.	There	are	several	religious	groups	that	we	have
alle.		* * * *	*				2			

- 2 seen in the past tornado that have shown up: one
- group out of Alabama, the Alabama Disaster
- 4 Brotherhood Association, and we have a list of
- 5 several other agencies that we obtained through the
- 6 recent emergency. Plus, individuals privately
- 7 provided supplies. The resources of the American Red
- 8 Cross, the Food and Nutrition Service of the USDA,
- 9 the Salvation Army, the County, State, and Federal
- 10 Government will be available to meet the needs of the
- 11 evacuees. (JG)
- 12 O. TO WHAT EXTENT HAVE YOU MADE ARRANGEMENTS TO USE
- 13 THESE ADDITIONAL RESOURCES?
- 14 A. Extant plans and agreements provide for the supply of
- 15 additional resources as they are required. (PL, WM)
- 16 Q. IN A WORST CASE EMERGENCY HOW MANY PERSONS WILL USE
- 17 THE SHELTER?
- 18 A. We assume that all the people in the 10-mile EPZ
- 19 would go to their assigned shelter if a total
- 20 evacuation were ordered. (PL, WM)
- 21 O. HOW MANY PEOPLE ARE ASSIGNED TO ADMINISTER THE
- 22 SHELTER PROGRAM?
- 23 A. The number of people designated for shelter
- 24 operations will vary according to the hosting
- 25 requirements for each county. The Red Cross has and
- 26 will provide shelter training. (PL, WM)

- 1 O. HOW MANY PERSONS ARE IN A RECEPTION TEAM?
- 2 A. For internal shelter operations, the number of staff
- 3 varies with the number of evacuees. Internal shelter
- 4 staff would include a shelter manager and one or more
- 5 registrars, nurses, cooks, recreation officer,
- 6 support staff, and a communication officer. (PL, WM)
- 7 Q. WHAT REGISTRATION PROCEDURES WILL BE USED?
- 8 A. Those that the Red Cross has already established.
- 9 (PL, WM)
- 10 Q. WHO WILL ADMINISTER THOSE PROCEDURES?
- 11 A. The Red Cross and the Department of Social Services
- jointly in the shelter. (PL, WM)
- 13 Q. HAVE PLANS FOR ENTRY AND EXIT FROM SHELTERS BEEN
- 14 DEVELOPED?
- 15 A. In the Red Cross criteria for the shelter, yes they
- 16 have. (PL, WM)
- 17 O. WILL THE RED CROSS ADMINISTER THE OPERATION OF THE
- 18 SHELTERS?
- 19 A. Yes. (PL, WM)
- 20 O. DO THEY HAVE EXPERIENCE IN RUNNING SHELTERS?
- 21 A. Yes. The American Red Cross has had over eighty
- 22 years of experience and success in the administration
- of shelters and registration of evacuees. (PL, WM,
- 24 JG)
- 25 Q. BASED ON YOUR EXPERIENCE, HAS THEIR OPERATION OF
- 26 SHELTERS BEEN SUCCESSFUL?

- 1 A. Yes. (PL, WM)
- 2 O. HOW LONG WILL IT TAKE TO REGISTER PERSONS AT THE
- 3 SHELTER?
- 4 A. It will require approximately 2 minutes to register
- one person. Registration time is decreased if a
- 6 family registers as a unit. A family of 4 requires
- 7 approximately 3-1/2 minutes to register. (PL, WM)
- 8 O. WHAT IS CONSIDERED ADEQUATE DECONTAMINATION
- 9 EQUIPMENT?
- 10 A. The procedures listed in Attachment A (Personnel
- 11 Decontamination) are considered adequate techniques
- 12 for removing radioactive particulate contamination.
- No decontamination is required for exposure to noble
- 14 gases. These techniques are not intended for cases
- of internal contamination; specialized medical
- 16 consultation is indicated in such cases. The
- 17 necessary equipment is implied by the description of
- 18 each decontamination method. (PL, WM)
- 19 Q. IS EACH OF THE 38 SHELTERS EQUIPPED WITH ADEQUATE
- 20 DECONTAMINATION EQUIPMENT?
- 21 A. Yes. (PL, WM)
- 22 Q. ARE SPECIALLY-TRAINED NURSES OR PARAMEDICS REQUIRED
- 23 TO PERFORM DECONTAMINATION?
- 24 A. No. (PL, WM)
- 25 O. WHAT SUPPLIES ARE REQUIRED FOR DECONTAMINATION?
- 26 A. Soap, water, and towels. (PI, WM)

1	Q.	HOW WILL CONTAMINATED MATERIALS BE DISPOSED OF AT
2		EACH SHELTER?
3	Α.	Contaminated clothing will be placed in containers.
4		Disposal of contaminated water is based on DHEC/BRH
5		instructions. (PL, WM)
6	Q.	HOW HAS EMERGENCY PLANNING PROVIDED MEANS FOR
7		REUNITING FAMILIES SEPARATED DURING EVACUATION?
8	Α.	The American Red Cross will register all evacuees who
9		report to a shelter. Families can make inquiries
10		through the ARC Disaster Welfare Inquiry System. (PL,
11		WM)
12	Q.	DOES THE PLAN STILL CONTEMPLATE FOURTEEN RECEPTIONS
13		CENTERS?
14	Α.	No. Evacuees will not be processed and registered at
15		reception centers. Plans provide that residents
16		within the 10-mile EPZ will be preassigned to
17		shelters. They will be notified of these
18		preassignments by brochure and other public
19		information methods. (WM)
20		We took a hard look at the reception center
21		concept for Catawba and based upon the size of the
22		population felt it would not be feasible to use such
23		a concept, thus we went to a sheltering system where
24		the public would go directly to shelters rather than

first to a reception center and then to a shelter.

We have approximately 38 primary and well over 100

25

26

- total shelters designated in the State and local plan
- for Catawba that could be called on if the population
- 3 warranted it. (WM)
- 4 O. IF THE SHELTERS DESIGNATED IN THE PLAN BECAME
- 5 OVERCROWDED FOR SOME REASON WOULD YOU BE ABLE TO OPEN
- 6 ADDITIONAL SHELTERS FURTHER OUT?
- 7 A. Yes. (WM)
- 8 O. WILL PEOPLE HAVE TO REGISTER?
- 9 A. Yes, they will have to register at the shelter. (JG,
- 10 WM)
- 11 Q. DO YOU ANTICIPATE THAT REGISTRATION OF POTENTIAL
- 12 EVACUEES WILL POSE ANY PROBLEMS OF OVERCROWDING OR
- 13 DELAY THAT WOULD CAUSE PEOPLE NOT TO HAVE SHELTER AS
- 14 SOON AS THEY NEED IT?
- 15 A. There are experienced people that are usually in
- 16 charge of the shelters and know those procedures. I
- 17 do not envision that there would be any delay that
- 18 would cause people not to have shelter as soon as
- 19 they need it. (JG, WM)
- 20 O. BASED ON YOUR EXPERIENCE WITH THE PROCESSING OF
- 21 PEOPLE AT SHELTERS, HAS THAT MOVED FAIRLY SMOOTHLY?
- 22 A. In the recent examples that I have seen, yes. (JG,
- 23 WM)
- 24 Q. IS THE IDENTITY OF THE SHELTERS SET FORTH IN THE
- 25 STATE PLAN?

- 1 A. That's correct. It is listed in Appendix 1 to Annex
- B of the Site Specific Plan and in Annex Q of the
- 3 county plan. (WM)
- 4 O. IS THAT AN ACCURATE LIST?
- 5 A. The Red Cross is confirming those figures now to make
- 6 sure those shelters meet their criteria. (WM)
- 7 O. WHAT CRITERIA HAS THE STATE USFD IN ESTABLISHING
- 8 SHELTER C.PACITIES?
- 9 A. American Red Cross regulations are followed in
- 10 establishing shelter capacities. The Red Cross
- 11 inspects every shelter and signs an agreement with
- 12 the building owner/manager. When listed shelter
- 13 capacities do not meet Red Cross criteria, such
- 14 listed capacities will be either increased or
- 15 decreased to meet the criteria. (WM)
- 16 Q. ARE YOU AWARE OF ANY SHELTERS ON THAT LIST THAT ARE
- 17 NOT ADEQUATE?
- 18 A. Yes we are. Two shelters in York County did not meet
- 19 the criteria and thus people assigned to those
- 20 shelters will be reallocated to another shelter. The
- 21 Red Cross is confirming the square footages and
- 22 should complete their confirmation work in July or
- 23 August. (JG, WM)
- 24 Q. WHAT HAPPENS IF SHELTERS BECOME OVERCROWDED?

- 1 A. You move to an area farther away from the plant and
- 2 put people into other shelters that have been
- 3 previously identified and designated. (WM)
- 4 O. WHAT IF PEOPLE OUTSIDE THE CATAWBA EPZ MIGHT SEEK
- 5 SHELTER? IF SUCH DOES OCCUR, WOULD YOU BE ABLE TO
- 6 HANDLE THIS ADDITIONAL INCREMENT?
- 7 A. We have no experience on how many might do that, but
- 8 I can say that the policy throughout the State is to
- 9 deny no one shelter. (PL, WM)
- 10 O. IF SHELTERS BECOME OVERCROWDED, YOU WOULD SEEK
- 11 ADDITIONAL SHELTERING CAPABILITY?
- 12 A. Yes, in fact we go so far as to recommend closing the
- 13 schools for a short time. (PL, WM)
- 14 O. NOW IF I CAN DRAW ON YOUR RECENT EXPERIENCE WITH THE
- 15 TORNADOS IN MARLBORO COUNTY, WERE THERE PREDESIGNATED
- 16 SHELTERS IN THAT COUNTY?
- 17 A. Not to my knowledge. (PL, WM)
- 18 O. YET YOU WERE ABLE TO SET UP SHELTERS?
- 19 A. Yes, very quickly. (PL, WM)
- 20 O. DOES THAT GIVE YOU SOME MEASURE OF CONFIDENCE THAT IF
- 21 INDEED THERE IS OVERCROWDING AS A RESULT OF PEOPLE
- 22 COMING FROM OUTSIDE THE EPZ, YOU WILL BE ABLE TO
- 23 PROVIDE SHELTER FOR THEM?

- 1 A. That is correct. The school superintendent is the
- one who designated which schools would be open, they
- 3 were staffed quickly, and there was no problem
- 4 feeding or sheltering people that sought it. (Pt, WM)
- 5 O. HAS IT BEEN YOUR EXPERIENCE THAT IN AN EMERGENCY
- 6 SITUATION NOT EVERYONE WOULD COME TO A SHELTER?
- 7 A. Yes. In the recent episode in Marlboro County, some
- 8 of the people preferred to go to family members'
- 9 homes or the homes of friends. (PL, WM)
- 10 O. IN THAT INSTANCE WERE THEY INSTRUCTED TO FIRST COME
- 11 TO THE SHELTER?
- 12 A. I do not know. In the Catawba emergency plan, in the
- 13 event of an evacuation, people would be informed to
- 14 come to a shelter in the first instance. (PL, WM)
- 15 Q. DO YOU HAVE CONFIDENCE THAT PEOPLE WILL FOLLOW THAT
- 16 INSTRUCTION BASED ON YOUR EXPERIENCE?
- 17 A. I would hope that they would. It is my experience
- 18 that in an emergency people will follow the
- 19 directions they are given. In the recent tornado
- 20 emergency, for example, there was excellent response.
- 21 (PL, WM)
- 22 Q. BUT ONCE EVACUEES COME TO THE SHELTER IS IT YOUR
- 23 EXPERIENCE, BASED ON THE MARLBORO COUNTY WORK, THAT
- 24 NOT EVERYONE WOULD STAY AT A SHELTER?
- 25 A. Correct. Not everyone in this type of emergency
- 26 stayed in the shelter. (PL, WM)

1 2 3		TESTIMONY OF GASTON COUNTY (BOB E. PHILLIPS) ON EMERGENCY PLANNING CONTENTION 3
4	Q.	EMERGENCY PLANNING CONTENTION 3 ASSERTS THAT THE
5		EMERGENCY PLANS DO NOT PROVIDE FOR ADEQUATE EMERGENCY
6		FACILITIES AND EQUIPMENT. DOES GASTON COUNTY'S PLAN
7		PROVIDE FOR FOOD, CLOTHING AND BEDDING TO BE STORED
8		AT THE SHELTERS OR BROUGHT TO THE SHELTERS FOR
9		POTENTIAL EVACUEES' USE?
10	Α.	Food will be provided from those supplies already
11		stored at the schools. Clothing will be provided by
12		the N.C. Department of Corrections. For bedding, we
13		have about 100 cots stored in Gaston County. Other
14		cots will be brought in from surrounding counties.
15	Q.	DOES THE COUNTY PLAN PROVIDE INFORMATION REGARDING
16		THIS CONTENTION?
17	Α.	Yes, Part 2, figure 6 of the N.C. State Plan lists
18		the Gaston County designated shelters. Part 2,
19		Section III, of the N.C. State Plan addresses the
20		responsibilities of Gaston County government for
21		provision of food, clothing and bedding.
22	Q.	HOW LONG WILL IT TAKE FOR THESE SUPPLIES TO BE
23		BROUGHT IN?
24	Α.	It will take about 2 hours for clothing and bedding
25		to be brought in.
26	Q.	HAVE YOU SATISFIED YOURSELF THAT THE SUPPLY OF THESE
27		NECESSITIES IS ADEQUATE TO MEET THE POTENTIAL NEED?

- 1 A. Yes.
- 2 O. HOW DID YOU GO ABOUT ESTIMATING THE POTENTIAL NEED
- 3 FOR FOOD, CLOTHING, AND BEDDING?
- 4 A. We discussed this with the state and I believe the
- 5 Red Cross and Salvation Army have been involved also.
- 6 O. ARE THERE OTHER SOURCES OF FOOD, CLOTHING, AND
- 7 BEDDING WHICH COULD BE MADE AVAILABLE IF NECESSARY?
- 8 A. Yes.
- 9 O. HAVE YOU MADE ARRANGEMENTS TO USE THESE ADDITIONAL
- 10 RESOURCES IF THEY SHOULD BE REQUIRED?
- 11 A. Yes, I have made arrangements with the local Red
- 12 Cross, the Department of Social Services, local
- 13 school officials, and State officials.
- 14 O. DO YOU FEEL THAT THE AMOUNT OF SHELTER CAPACITY THAT
- 15 YOU HAVE WILL BE ADEQUATE FOR THE NEEDS THAT YOU
- 16 ANTICIPATE?
- 17 A. We have in the Gaston County part of the EPZ about
- 18 2,700 people and we have adequate shelter space for
- 19 these people, plus approximately 11,000 more people.
- 20 In the event more space is necessary, we will direct
- 21 evacuees to additional identified shelter space in
- 22 adjoining counties. I have identified shelters in
- 23 Cleveland County to receive the evacuees from York
- 24 County if needed. In addition, we can use the Grier
- 25 Junior High, Gaston College, and Highland Junior High
- 26 to shelter part of the 11,000 people.

- 1 Q. WHAT WILL GASTON COUNTY RELY UPON FOR PROCESSING AND
- 2 REGISTERING EPZ RESIDENTS?
- 3 A. I rely on 2 primary shelters for Gaston County
- 4 residents and on 3 secondary shelters for the 11,000
- 5 York County residents. There are no reception
- 6 centers in the Gaston County plan: the people go
- 7 directly to shelters.
- 8 O. DO YOU ANTICIPATE THAT THE REGISTRATION OF POTENTIAL
- 9 EVACUEES WILL POSE ANY PROBLEMS OF OVERCROWDING OR
- 10 DELAY OF EVACUATION?
- 11 A. No. The Gaston County Red Cross Director has
- 12 experience with this problem and will use enough
- 13 registrars to avoid any delay. Two hundred shelter
- 14 managers are already trained.
- 15 Q. WHAT REGISTRATION PROCEDURES WILL BE FOLLOWED?
- 16 A. Red Cross procedures.
- 17 O. WHO WILL ADMINISTER THESE PROCEDURES?
- 18 A. Red Cross personnel, backed by Department of Social
- 19 Services personnel.
- 20 Q. DOES THE RED CROSS, WHICH WILL ADMINISTER THESE
- 21 PROCEDURES, HAVE EXPERIENCE IN SUCCESSFULLY
- 22 ORGANIZING SHELTERS AND REGISTERING EVACUEES?
- 23 A. Yes. The Red Cross has been active in disaster
- 24 relief for years.
- 25 O. WHAT CRITERIA HAS GASTON COUNTY USED IN ESTABLISHING
- 26 SHELTER CAPACITIES?

1 A.	The criteria used were supplied by the North Carolina
2	Department of Crime Control and Public Safety. The
3	Red Cross, using its criteria, has reviewed the
4	shelters and has confirmed our selections. State

5 engineers came in last September to determine

6 capacities using these criteria.

1 2 3		TESTIMONY OF MECKLENBURG COUNTY (LEWIS WAYNE BROOME) ON EMERGENCY PLANNING CONTENTION 3
4	Q.	EMERGENCY PLANNING CONTENTION 3 ALLEGES THAT THE
5		EMERGENCY PLANS DO NOT PROVIDE FOR ADEQUATE EMERGENCY
6		FACILITIES AND EQUIPMENT TO SUPPORT THE EMERGENCY
7		RESPONSE. WHERE DOES THE MECKLENBURG COUNTY PLAN
8		ADDRESS EMERGENCY FACILITIES (SHELTERS, EOCS) AND
9		EQUIPMENT (FOOD, CLOTHING, BEDDING)?
10	Α.	Part 3 of the N.C. State Plan addresses Mecklenburg
11		County procedures. Section III of Part 3 lists
12		organizational responsibilities in the county for
13		provision of food, clothing and bedding. Part 3,
14		figure 6 lists the designated Mecklenburg County
15		shelters. The Standard Operating Procedures will
16		provide more specific detail.
17	Q.	WILL CHARLOTTE-MECKLENBURG HAVE ADEQUATE SUPPLIES OF
18		UNCONTAMINATED FOOD, CLOTHING, AND BEDDING FOR
19		PERSONS WHO ARE EVACUATED TO SHELTERS?
20	Α.	We have sufficient food resources available to us.
21		We have surplus food commodities through the
22		Department of Agriculture that would be available.
23		We have ninety thousand plus tons of food that have
24		been identified in the Charlotte-Mecklenburg area
25		that could be utilized.
26	0	WHERE IS THE FOOD STORED?

- 1 A. The food is stored in various distribution facilities
- 2 within the Mecklenburg County area.
- 3 O. HOW LONG WOULD IT TAKE FOR FOOD SUPPLIES TO BE
- 4 BROUGHT TO THE SHELTERS?
- 5 A. Within 5 to 6 hours after notification that food is
- 6 necessary at the shelters, we would have access to
- 7 enough food to feed the anticipated shelter
- 8 population.
- 9 O. WHAT ABOUT BEDDING?
- 10 A. We provide the very basics which might consist of a
- 11 cot or blanket for women and children or the elderly
- or something of this nature. It is not the intent of
- shelter operations to provide mattresses, pillow
- 14 cases, and pillows to shelterees. We have identified
- about thirteen hundred cots that would be available
- 16 within a couple hours time. Long range, we would
- 17 have additional resources from the Red Cross and the
- 18 State.
- 19 O. HOW ABOUT CLOTHING?
- 20 A. It is my understanding that the State would take the
- 21 lead in providing clothing and we would act as a
- 22 support. We would also utilize any organization such
- as the Red Cross or the Salvation Army that could
- 24 supply clothing locally.

1 0	).	DO	YOU	AGREE	WITH	INTERVENORS'	ASSERTION	THAT	THE
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- NUMBER OF SHELTERS IS INSUFFICIENT FOR THE NUMBER OF
- 3 EVACUEES THAT YOU MIGHT HAVE?
- 4 A. No. Mecklenburg County has identified shelter
- 5 capacity for over forty-two thousand people. In
- addition, we have agreements with other adjacent
- 7 counties that would house overflow, so there is
- 8 sufficient shelter in Mecklenburg and surrounding
- 9 counties to accommodate, we think, the evacuation
- 10 population.
- 11 O. WOULD THAT INCLUDE PEOPLE WHO EVACUATE FROM SOUTH
- 12 CAROLINA AS WELL AS PEOPLE WHO EVACUATE FROM PORTIONS
- 13 OF THE EPZ IN THIS COUNTY?
- 14 A. That's correct.
- 15 O. WOULD THAT INCLUDE PEOPLE WHO MIGHT COME INTO
- 16 MECKLENBURG COUNTY FROM GASTON COUNTY?
- 17 A. If they came from Gaston County to Mecklenburg
- 18 County, we would provide as much as we could: we
- 19 would not turn anybody away.
- 20 O. CAN YOU ESTIMATE THE NUMBER OF EVACUEES YOU COULD
- 21 HANDLE, TAKING INTO ACCOUNT ANY ARRANGEMENTS THAT YOU
- 22 MADE WITH THE ADJACENT COUNTIES?
- 23 A. Mecklenburg County can handle forty-two thousand plus
- 24 evacuees. In a worst-case evacuation, my
- 25 understanding of the most recent population figures
- 26 is that about sixty thousand people would require

1		shelter, so we are looking at about eighteen thousand
2		people who would go to the surrounding counties. We
3		already have Cabarrus County in place because
4		Cabarrus is utilized for the McGuire Nuclear Station
5		emergency response. In addition, we could activate
6		mutual aid agreements with all of the other
7		surrounding counties so that we don't think that
8		putting up sixty thousand people would pose that much
9		of a problem. Logistics could be a problem
10		initially, but that could be administratively worked
11		out over a period of a couple of hours. The
12		logistics would be resolved.
13	٥.	WHAT CRITERIA DID MECKLENBURG COUNTY USE IN
14		ESTIMATING SHELTER CAPACITIES?
15	Α.	The criteria used (40 sq. ft/person) were supplied by
16		the N.C. Department of Crime Control and Public
17		Safety. The Red Cross has reviewed the shelters
18		using its criteria, and has confirmed our selection.
19	Q.	HOW WILL MECKLENBURG COUNTY REGISTER AND PROCESS EPZ
20		RESIDENTS?
21	Α.	We will use the standards and procedures that the Red
22		Cross has established and utilized in numerous

23

disaster situations.

1 2 3		TESTIMONY OF A MERICAN RED CROSS (DENNIS JOHNSON) ON EMERGENCY PLANNING CONTENTION 3
4		Background Information
5	Q.	PLEASE STATE YOUR NAME AND BUSINESS ADDRESS.
6	Α.	My name is Dennis Johnson. My business address is
7		2425 Park Road, Charlotte, North Carolina.
8	Q.	WHAT IS YOUR JOB POSITION?
9	Α.	My job title is Disaster Specialist for the American
10		Red Cross.
11	Q.	HOW LONG HAVE YOU BEEN IN THAT JOB?
12	Α.	Since August of 1977.
13	Q.	PRIOR TO THAT TIME DID YOUR JOB RELATE TO EMERGENCY
14		RESPONSE?
15	Α.	Yes. I have worked with the American Red Cross in
16		the area of disaster relief since November of 1974.
17		In my capacity as Director of Volunteers in Hartford,
18		Connecticut, I did disaster relief work in Puerto
19		Rico, in Guatamala, and also locally in Connecticut.
0.0	Q.	HAVE YOU READ CESG/PALMETTO ALLIANCE CONTENTION 3,
1		WHICH DEALS WITH THE ADEQUACY OF EMERGENCY FACILITIES
2		AND EQUIPMENT?
3	Α.	Yes.
4	Q.	HAVE YOU BEEN INVOLVED IN ANY EMERGENCIES WHERE
5		NOTIFICATION TO EVACUATE WAS GIVEN TO THE PUBLIC?

- 1 A. Yes. Two examples are my involvement in the
- 2 evacuation related to Hurricane Alan a couple of
- 3 years ago in South Texas, and my involvement in
- 4 evacuation activities during the Nicaraguan civil
- 5 war.
- 6 Q. HAVE YOU BEEN INVOLVED IN ANY EMERGENCY RESPONSE
- 7 ACTIVITIES THAT INVOLVED SHELTERING?
- 8 A. Many of the disasters that I've been on had
- 9 sheltering as a component of the activities. I was
- 10 personally involved in a major sheltering operation
- 11 some years ago in Honduras and Nicaragua where we
- 12 sheltered 52,000 refugees from the Nicaraguan civil
- 13 war. We've also done local sheltering throughout the
- 14 South. I hadn't done any here in North and South
- 15 Carolina until the recent tornado experience because
- l6 we hadn't had a disaster experience that required
- 17 extensive sheltering.
- 18 O. BASED UPON YOUR EXPERIENCE IN RESPONDING TO
- 19 DISASTERS, WHAT IS YOUR IMPRESSION OF PEOPLE'S
- 20 RESPONSE TO DIRECTIONS GIVEN BY EMERGENCY RESPONSE
- 21 OFFICIALS?
- 22 A. I think a lot of people's response to direction
- 23 depends on the kind of experience they have had
- 24 dealing with evacuation and sheltering in the past.
- 25 For example, if you have people who have had a recent
- 26 experience with a certain kind of disaster, they're

going to respond very favorably to direction. have also found that if people have for many, many 2 3 years not had the experience of having lived through a disaster, they also are receptive to moving. Along 4 5 the coast here in the Carolinas, we have found that 6 we occasionally have a small hurricane come through, 7 such as a Hurricane David, that causes minor damage. 8 People begin to believe that they don't have to 9 evacuate because they are not genuinely threatened by 10 that kind of disaster. But with either a very recent 11 disaster or a long, long term of no disaster 12 whatsoever people tend to be most receptive to 13 wanting evacuation. DO YOU HAVE AN OPINION AS TO WHETHER OR NOT PEOPLE 14 15 WOULD RESPOND POSITIVELY IN A NUCLEAR EMERGENCY? 16 Yes, I do. It's my opinion that people would 17 evacuate when they receive the warning to do so. I'm 18 basing that opinion on my belief that people have a 19 very significant fear of the unknown in this instance. It's not like a tornado that you can see; it's not 20 21 like a hurricane that you can experience, you can 22 feel, you can hear. This is something that is 23 invisible as far as most people are concerned. They 24 don't know when it's coming or how it's going to 25 affect them on a short term or a long term basis, and

- 4 -

1	as	a	result,	I	think	people	are	going	to	be
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- 2 frightened enough as a result of that to pick up and
- 3 leave.
- 4 Q. DO YOU HAVE ANY BASIS FOR THAT OPINION?
- 5 A. Well, this is something that, because we're in the
- 6 business of providing disaster relief, we sit down
- 7 and talk with people on a local basis. I've spoken
- 8 with people throughout North and South Carolina
- 9 around nuclear power plants, and I've spoken with
- 10 other disaster specialists in other areas as well, to
- ll get their impression, and they seem to feel that
- 12 people will move.
- 13 Q. AS A RESULT OF THE THREE MILE ISLAND ACCIDENT, THERE
- 14 WAS AN EVACUATION OF YOUNG CHILDREN AND PREGNANT
- 15 WOMEN. WAS THE RED CROSS INVOLVED AT ALL IN THAT
- 16 ACTIVITY?
- 17 A. Yes, they were involved in the sheltering process.
- 18 Q. HAVE YOU READ ANY INFORMATION REGARDING THIS
- 19 EVACUATION?
- 20 A. I did read an after-action report based on the events
- 21 of Three Mile Island.
- 22 Q. DID PREGNANT WOMEN AND CHILDREN LEAVE THE AREA AS
- 23 DIRECTED?
- 24 A. It seems that they did. There weren't nearly as many
- 25 people in the shelters as people anticipated, but
- 26 going back to the experience that we've had over the

- l years in terms of sheltering people from different
- 2 kinds of natural disasters, we found that to be true
- 3 as well. Most people who evacuate from any kind of
- 4 disaster, man-made or natural, tend to go with people
- 5 that they are familiar with. If your mother or
- 6 father lives nearby, chances are you are going to go
- 7 to their house and stay with them. People are much
- 8 more comfortable in a setting that they know and
- 9 understand outside an area of danger than they would
- 10 be staying in a Red Cross facility or any other kind
- ll of public facility.
- 12 Q. THE PRESENT EMERGENCY RESPONSE PLANS CALL FOR
- 13 DECONTAMINATION CAPABILITY AT EACH ONE OF THE
- 14 SHELTERS, AND THE SHELTERS ARE ALIGNED IN THE EPZ
- 15 SUCH THAT PEOPLE WOULD DISBURSE FROM THE EPZ TO THE
- 16 VARIOUS SHELTERS. IF GIVEN PROPER INSTRUCTION BEFORE
- 17 THE INCIDENT AND DURING THE EMERGENCY SITUATION, DO
- 18 YOU THINK THE PROBABILITY THAT PEOPLE WOULD GO TO
- 19 SHELTERS TO GET DECONTAMINATED IS GREATER THAN IF
- 20 THEY HADN'T BEEN GIVEN ANY INSTRUCTION?
- 21 A. Yes, I think it would be greater.
- 22 Q. IN YOUR EXPERIENCE, HAVE VOLUNTEERS BEEN FORTHCOMING
- 23 IN AN EMERGENCY?
- 24 A. They always are. The whole disaster relief process
- 25 that the American Red Cross runs hinges on the
- 26 involvement of volunteers at all levels.

1 Q. IN YOUR EXPERIENCE, HAVE FOOD, CLOTHING, BEDDIN	G BEEN
--	--------

- 2 READILY AVAILABLE IN AN EMERGENCY?
- 3 A. Absolutely.

## 4 EPC 3 Testimony

- 5 Q. EMERGENCY PLANNING CONTENTION 3 ASSERTS THAT EXISTING
- 6 EMERGENCY PLANS DO NOT PROVIDE FOR SUFFICIENT FOOD,
- 7 CLOTHING, AND BEDDING FOR EVACUEES. HOW DID YOU GO
- 8 ABOUT ESTIMATING THE POTENTIAL NEED FOR FOOD,
- 9 BEDDING, AND CLOTHING?
- 10 A. Well, initially, of course, we looked at the numbers
- 11 of the people, the size of the population within the
- 12 ten-mile EPZ and based our estimates for the kinds of
- 13 supplies we would need on those numbers.
- 14 Q. IN YOUR OPINION, WOULD ADEQUATE FOOD, CLOTHING, AND
- 15 BEDDING FOR EVACUEES BE AVAILABLE IN THE EVENT OF A
- 16 NUCLEAR EMERGENCY AT CATAWBA?
- 17 A. I believe it would be. In large shelter operations,
- 18 the Red Cross utilizes USDA foods that are stored in
- large warehouses and in individual schools. Some of
- 20 the schools serve as shelters. The amounts in
- 21 storage vary depending upon the time of year. We
- 22 would also be able to purchase additional food
- 23 supplies from commercial wholesale distributors. So,
- 24 I don't feel that providing food in a nuclear
- 25 emergency would be any different than dealing with
- 26 people on a natural disaster basis. The food is

- 7 -

still going to be there. We're still going to be
able to use the resources in Charlotte, for example,
where they have major food storage warehouses, and
that in other major cities. Whether we have to truck
food in or bring it in by the trainload or planeload,
however we have to, we'll get it.

Clothing, for example, can be purchased on a local basis, either directly from retail suppliers or, if needed in vast quantities, we can go to wholesale supplies. But in this particular plan, clothing isn't something that the Red Cross is tasked with supplying.

Bedding, though, is a concern that we have for the shelters. The fact is that in a shelter, not everyone has a bed. And in any kind of shelter, in all but the smallest disaster, that's the case. When there is a hurricane and there are massive evacuations from the coast, only a very small percentage of the people who actually stay in a shelter stay on a cot. They may have a blanket or a pillow, they may have a cot the second or third day, but the fact is that these people initially do not have that kind of a supply in any kind of a shelter. Currently, there are 1161 cots and 1245 blankets in counties with shelters. In addition, we have thousands of cots and blankets stored in disaster

- 8 -

l war	ehouses	throughout	the	country	that	can	be	brought
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- 2 into a situation like this within twenty-four to
- 3 forty-eight hours. So, we're basing the need for
- 4 bedding on being able to be supplied by these
- 5 warehouses. Generally, the people who need the cots
- 6 that we would provide are people who are elderly or
- 7 who are sick. Not everyone, for instance, in your
- 8 family or my family who's young and healthy needs a
- 9 cot, frankly.
- 10 Q. ALTHOUGH THEY MIGHT NOT HAVE COTS IMMEDIATELY AND
- 11 MAYBE NOT EVEN BEDDING IMMEDIATELY, IS IT YOUR
- 12 EXPERIENCE THAT PEOPLE HAVE BEEN ABLE TO SURVIVE IN
- 13 SHELTERS?
- 14 A. Yes.
- 15 Q. IS IT YOUR EXPERIENCE THAT THE FOOD, CLOTHING, AND
- 16 BEDDING DOES REACH A SHELTER WITHIN A RELATIVELY
- 17 SHORT PERIOD OF TIME, SAY TWENTY-FOUR HOURS?
- 18 A. Absolutely.
- 19 Q. DO YOU HAVE ANY REASON TO SUSPECT THAT WOULD NOT BE
- 20 THE CASE IN AN EMERGENCY SITUATION INVOLVING A
- 21 NUCLEAR INCIDENT AT CATAWBA?
- 22 A. Not based on the knowledge I have of how this would
- 23 occur.
- 24 Q. PLEASE DESCRIBE WHAT SPECIFIC ARRANGEMENTS HAVE BEEN
- 25 MADE TO PROVIDE AN UNCONTAMINATED WATER SUPPLY.

- A. The primary resource for water supply would be National Guard tank trucks (2-5,000 gallons) and water trailers (85-400 gallons). Water would be trucked from nearby uncontaminated resources and distributed in the smaller trailers.
- Q. HOW WILL CONTAMINATED CLOTHING AND OTHER MATERIALS BE DISPOSED OF AT THE SHELTERS?
- A. Plastic garbage bags and other trash containers will be used which will later be moved to an appropriate dump site.
- O. HOW WOULD THE AMERICAN RED CROSS BE NOTIFIED IN AN EMERGENCY?
- A. We might be notified by a number of sources, including the local Red Cross chapter, the Department of Social Services, the S.C. Emergency Preparedness Department, or law enforcement officials. After being notified, we would then proceed to staff each shelter.
- O. WOULD THE SHELTERS BE STAFFED BY PERMANENT EMPLOYEES

  OF THE AMERICAN RED CROSS OR BY VOLUNTEERS?
- A. A combination of both. We're not only counting on the Red Cross staff that we have available through our local chapters and national organization, but also on local volunteers who have been trained at this point and are in place. But, whenever a

- disaster like this occurs, we pick up a lot of people
- who are interested in providing their assistance on a
- 3 immediate basis also.
- 4 O. WOULD THOSE INDIVIDUALS WHO STAFF THE SHELTERS,
- 5 WHETHER THEY WERE RED CROSS EMPLOYEES OR VOLUNTEERS,
- 6 KNOW WHAT TO DO?
- 7 A. The Red Cross has an eight-hour shelter management
- 8 course that we give. We have been giving it for
- 9 many, many years now here in the Carolinas and across
- 10 the country. We train the managers in this course,
- and all the volunteers who will come in will be a
- 12 part of this management team. If they haven't had
- 13 the training, that's not really significant because
- 14 the whole process, the whole disaster relief system
- 15 that we have, is based on utilizing people who have
- 16 had a minimum of experience and, in many instances,
- 17 no training whatsoever. But under the direction of
- 18 these trained managers, they can be put to work in a
- 19 very important function.
- 20 O. HOW WOULD THE PROCESSING OF PEOPLE AT A SHELTER WORK?
- 21 A. After they have been monitored and decontaminated, if
- 22 that should be necessary, we will have a registration
- 23 table at which they will sign into the shelter, and
- 24 when they leave they'll sign out of the shelter. A
- 25 sample registration form is attached as Attachment A.

- 1 Q. WILL THE REGISTRATION CREATE A BOTTLENECK?
- 2 A. Not if it's adequately staffed.
- 3 O. DO YOU HAVE ANY REASON TO BELIEVE THAT THERE WON'T BE
- 4 ADEQUATE STAFF AT THESE SHELTERS?
- 5 A. Not if the plan is followed.
- 6 Q. DO YOU HAVE ANY REASON TO BELIEVE THE PLAN WILL NOT
- 7 BE FOLLOWED?
- 8 A. Not at this point.
- 9 Q. WOULD THE AMERICAN RED CROSS BE INVOLVED IN ASSESSING
- 10 CONTAMINATION?
- 11 A. We are only involved in it to the extent that we need
- 12 to be sure that the people are monitored and
- 13 decontaminated prior to their entry into the shelter.
- 14 We want to be sure that the system is established
- 15 such that our workers, our volunteers, as well as the
- 16 other people who enter into the shelter, are not
- 17 affected by this contamination whatsoever.
- 18 Q. DO YOU HAVE PROCEDURES IN PLACE THAT WILL ASSURE
- 19 THAT?
- 20 A. Well, basically the procedures are those used by the
- 21 monitoring teams.
- 22 Q. HOW LONG DO YOU PLAN FOR PEOPLE TO REMAIN IN THE
- 23 SHELTERS?

- 1 A. We have never attached a time factor to our shelters.
- Naturally, we like to get people back into their
- 3 homes as rapidly as possible and then make every
- 4 effort to do what we can to help them either return
- 5 to their home or to find alternate housing.
- 6 Q. TURNING TO THE ADEQUACY OF THE SHELTERS PROVIDED, HOW
- 7 MANY SHELTERS HAVE YOU IDENTIFIED FOR THE 10-MILE
- 8 EPZ?
- 9 A. I have identified 38 primary shelters within the
- 10 area.
- 11 Q. IS THE AMERICAN RED CROSS INVOLVED IN ASSESSING THE
- 12 ADEQUACY OF SHELTERS?
- 13 A. The shelter management course that we have sets out
- 14 certain guidelines which specify the kinds of things
- 15 that make a shelter adequate in terms of such details
- 16 as number of commodes, for example, square footage
- 17 allowable per person, etc.
- 18 Q. ARE YOU APPLYING THOSE CRITERIA TO EACH OF THE
- 19 SHELTERS THAT HAVE THUS FAR BEEN IDENTIFIED?
- 20 A. Yes.
- 21 Q. WHAT HAVE YOU FOUND IN YOUR REVIEW OF THE SHELTERS?
- 22 A. Well, we're finding that some of the shelters that
- 23 were originally designated have been eliminated from
- 24 the system because they did not have the square
- 25 footage that was necessary or there might have been

- some other reasons for them to be eliminated; but,
- 2 generally speaking, we're talking about square
- 3 footage, accessibility, and sanitary facilities.
- 4 Q. WHEN WILL YOUR REVIEW OF THE DESIGNATED SHELTERS BE
- 5 COMPLETE?
- 6 A. Within the year, if possible.
- 7 Q. WILL YOUR REVIEW OF THE ADEQUACY OF THE SHELTERS
- 8 RESULT IN A SIGNIFICANT REDUCT. ON IN THE NUMBER OF
- 9 SHELTERS THAT ARE PRESENTLY IDENTIFIED?
- 10 A. We haven't seen that so far.
- 11 Q. IN THE EVENT THERE IS EITHER A SIGNIFICANT REDUCTION
- 12 OR A MINOR REDUCTION, HOW WILL ADDITIONAL SHELTER
- 13 SPACE BE PROVIDED?
- 14 A. I would imagine that what they would do would be to
- 15 designate other counties as host counties. We would
- 16 use facilities farther away from the EPZ.
- 17 Q. DOES THAT POSE ANY PROBLEM?
- 18 A. Not as far as we're concerned. It may pose a
- 19 transportation problem for some of the individuals
- 20 involved within the ten mile radius of the plant.
- 21 Q. WILL THE RED CROSS EVALUATE THESE ADDITIONAL SHELTERS
- 22 WITH RESPECT TO ADEQUACY?
- 23 A. On the same basis that we evaluate the other ones,
- 24 yes.

- 1 Q. IN SUM, THEN, WILL THE AMERICAN RED CROSS SATISFY
- 2 ITSELF THAT THERE'S A SUFFICIENT AMOUNT OF ACCEPTABLE
- 3 SHELTER SPACE?
- 4 A. That's correct.
- 5 Q. HAVE YOU CONSIDERED THE FACT THAT SOME PEOPLE OUTSIDE
- 6 THE EPZ MIGHT SEEK REFUGE AT A SHELTER?
- 7 A. We've considered the fact, but frankly I can't see
- 8 that happening.
- 9 Q. IF THIS WERE TO HAPPEN, AND THERE WERE OVERCROWDING,
- 10 WOULD ADDITIONAL SHELTERS BE OPENED AND STAFFED AND
- 11 THOSE PEOPLE TAKEN CARE OF?
- 12 A. That's correct.
- 13 Q. WHO WOULD STAFF THE ADDITIONAL SHELTER?
- 14 A. We may have to bring in people from other states,
- 15 from across the country, from other parts of North
- 16 and South Carolina. Initially, we would depend also
- on the Department of Social Services workers
- 18 available here in South Carolina.
- 19 Q. HAS IT BEEN YOUR EXPERIENCE THAT YOU ARE ABLE TO DRAW
- 20 ON RESOURCES FROM OUTSIDE YOUR IMMEDIATE AREA TO
- 21 RESPOND TO A DISASTER?
- 22 A. It happens in every disaster of any size.
- 23 Q. HAS YOUR EXPERIENCE WITH SHELTERING ACTIVITIES BEEN
- 24 THAT THE PROCEDURES USED BY THE AMERICAN RED CROSS IN
- 25 REGISTERING PEOPLE AND CARING FOR PEOPLE IN SHELTER
- 26 HAS BEEN EFFECTIVE?

- 1 A. As far as I've seen, yes.
- 2 Q. HOW LONG WOULD IT TAKE TO PROCESS A FAMILY OF FOUR?
- 3 A. We timed the processing procedure recently and found
- 4 that it takes approximately three to three and a half
- 5 minutes.
- 6 Q. WHAT DOES PROCESSING OF PEOPLE ENTAIL?
- 7 A. We have a registration form that is in place, people
- 8 will come in and either stand or sit with the
- 9 registrar. The registrar will ask them their name,
- 10 address, and the other information that's contained
- on the form itself, which is very brief. Following
- 12 that, they'll be moved into the shelter.

1 2 3		TESTIMONY OF THE SALVATION ARMY (MAJOR PHILIP NEEDHAM) ON EMERGENCY PLANNING CONTENTION 3
4		Background Information
5	Q.	PLEASE STATE YOUR NAME AND BUSINESS ADDRESS.
6	Α.	My name is Major Philip Needham. My business address
7		is 1051 E. Morehead Street, Charlotte, North Carolina
8		28204.
9	Q.	WHAT IS YOUR JOB POSITION?
10	Α.	I am Divisional Secretary of the Salvation Army for
11		North Carolina and South Carolina.
12	Q.	HOW LONG HAVE YOU HELD THAT POSITION?
13	Α.	Since February of 1983.
14	Q.	WHAT ARE THE DUTIES OF THE DIVISIONAL SECRETARY?
15	Α.	I am responsible for the physical property of the
16		Salvation Army, men's club work, office activities,
17		and I am responsible for disaster activities.
18	Q.	PRIOR TO BECOMING DIVISIONAL SECRETARY, WHAT WAS YOUR
19		POSITION WITH THE SALVATION ARMY?
20	Α.	I was the Corps Officer and City Coordinator in St.
21		Petersburg, Florida.
22	Q.	HOW LONG DID YOU SERVE IN THAT CAPACITY?
23	Α.	I served there for five years.
24	Q.	WHAT WERE YOUR DUTIES IN ST. PETERSBURG?
25	Α.	As the City Coordinator, I was in charge of all
26		disaster activities in Pinellas County, Florida.
27	Q.	HAVE YOU EVER DIRECTED DISASTER RELIFF ACTIVITIES?

- 1 A. Yes, there were two disasters which the Salvation
- 2 Army helped with in Pinellas County. The major one
- 3 was the Sunshine Skyway disaster in which the Skyway
- 4 bridge collapsed into the bay. Numerous persons were
- 5 killed. Another disaster involved a Coast Guard ship
- 6 which collided with a tanker. Most of the men
- 7 drowned. For both of these disasters, the Sylvation
- 8 Army brought in mobile canteens and provided meals,
- 9 both to the disaster victims, their families and
- 10 rescue workers. In addition, the Salvation Army, at
- 11 my direction, provided clothing for victims and their
- 12 families who came to Pinellas County.
- 13 Q. HAVE YOU SERVED IN OTHER CAPACITIES WITH THE
- 14 SALVATION ARMY?
- 15 A. Yes. Prior to serving in Pinellas County, I spent
- 16 seven years in Atlanta, Georgia. Prior to that, from
- 17 1969 through 1971, I was the Corps Officer in Ft.
- 18 Myers, Florida, where I had the responsibility of
- 19 disaster relief.
- 20 Q. IN YOUR DISASTER RELIEF EXPERIENCE, HAVE YOU HAD THE
- 21 OPPORTUNITY TO PROVIDE SHELTER TO EVACUEES OR OTHERS
- 22 IN NEED?

1 A. While serving in St. Petersburg and Ft. Myer	rs, the
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- Salvation Army conducted an ongoing shelter for
- 3 people in need. We served people whose homes had
- 4 been burned or who were homeless for other reasons,
- 5 including transients.

# 6 EPC 3 Testimony

- 7 Q. HAVE YOU READ CESG/PALMETTO ALLIANCE CONTENTION 3,
- 8 WHICH DEALS WITH THE ADEQUACY OF EMERGENCY FACILITIES
- 9 AND EQUIPMENT?
- 10 A. Yes.
- 11 Q. IF AN EMERGENCY OCCURRED AT THE CATAWBA NUCLEAR
- 12 STATION CAUSING PEOPLE TO GO TO SHELTERS, WHAT ROLE
- 13 WOULD THE SALVATION ARMY FILL?
- 14 A. The Salvation Army will provide clothing free of
- 15 charge to those persons who have become contaminated.
- 16 O. ABOUT HOW MANY PEOPLE CAN THE SALVATION ARMY CLOTHE?
- 17 A. The Salvation Army would have no problem in clothing
- 18 over 75,000 people.
- 19 Q. HOW QUICKLY COULD THIS CLOTHING BE OBTAINED?
- 20 A. We would be able to obtain all of this clothing
- 21 within 48 hours.
- 22 Q. HOW WOULD YOU BE ABLE TO OBTAIN SO MUCH CLOTHING SO
- 23 QUICKLY?

1	A.	The	Salvation	Army	has	numerous	clothing	centers	in
---	----	-----	-----------	------	-----	----------	----------	---------	----

- 2 the southeastern United States. The local post
- 3 call on these centers where the clothing is already
- 4 sorted and ready to be distributed.
- 5 Q. WOULD YOU BE ABLE TO PROVIDE CLOTHING FOR MEN, WOMEN,
- 6 CHILDREN AND INFANTS?
- 7 A. Yes, we have resources to clothe all ages and sexes.
- 8 I believe that the uncontaminated clothing needs of
- 9 all evacuees could be met in a timely fashion.
- 10 Q. ARE THERE OTHER ACTIVITIES IN WHICH THE SALVATION
- 11 ARMY MIGHT SERVE IN AN EMERGENCY?
- 12 A. Yes. The Salvation Army would be able to set up
- 13 mobile canteens for the temporary feeding of
- 14 evacuees. We could serve soup, sandwiches, donuts
- and coffee for a short time. This activity would be
- limited to the immediate response since the Red Cross
- 17 will feed the evacuees in the shelters. In addition,
- 18 the Salvation Army can provide canned goods but this
- 19 would be supplemental and in addition to the Red
- 20 Cross' responsibility.
- 21 Q. HOW MANY SETS OF CLOTHING INCLUDING TROUSERS,
- 22 SHIRTS, SKIRTS, BLOUSES, OR DRESSES CAN THE SALVATION
- 23 ARMY FURNISH FROM NEARBY EXISTING SUPPLIES, WITHIN
- 24 FOUR HOURS AND WITHIN 24 HOURS?

1 A.	The	Salvation	Army	can	furnish	the	following	in	So	.h
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- 2 Carolina and in addition can call on resources
- outside the state should the need arise:

4	Time	Male	Female		
5	Within 4 hours	1,200 sets	2,000 sets		
6	Within 24 hours Total in 24 hours	1,600 sets 2,800 sets	3,000 sets 5,000 sets		

- 8 In addition, the Salvation Army can furnish the
- 9 following children's sets of clothes as indicated:

10 <u>Time</u>		Male	Female	
11	Within 4 hours	1,700 sets	1,100 sets	
12	Within 24 hours	1,800 sets	1,700 sets	
13	Total in 24 hours	3,500 sets	2,800 sets	

# FOOD STORAGE/ AVAILAR LITY FOR CHARLOTTE-MECKLENBURG COUNTY AND SURROUNDING AREA FOR DECLARED DISASTER/EMERGENCY CONDITION

DISTRIBUTION CODE: PRIMARY DISTRIBUTORS	DRY GOODS	CANNED GOODS	PERTSHABLES	PRODUCTS	BAKERY PRODUCTS	COMMENTS
Α.	-0-	2,000	1,820	-0-	-0-	760 Tons Paper Products
В.	2,000	2,243	4,510	10	10	* Includes Frozen Foods
C.	4,764	4.764	108(meat)	262	148**	**Produce Products
D.	360	1,213	1.037	195	15	
E.	7,000	7,000	1,467	1,467	1,467	
F.	4,950	5,136	1,220	483	176	
G.	4,581	4,581	-0-	-0-	-0-	
DISTRIBUTION CODE: SECONDARY DISTRIBUTORS						
Α.	35	-0-	45	-0-	-0-	
В.					1,200	
c.	2	25	50	5	-0-	
D.			50			
Ε.					100	
E. F. G.					432	
G.			2			Sugar and Candy
н.		60				
1.		7	12		0.5	
J.					40	
K.			40			
L.	100					
н.		1,110				
N.			2			
0.	4	4	1		2	
Ρ.	3	10	20			
Q.	10,500	7,000				
R.	0.5				5	
P. Q. R. S. T. U. V.	25	10	200			
	20	40	300			
U.	3					
V.				900	2	
v.		0.100		900		
x.		9,400			32	
Υ.					10	
Z.					7	
AA. BB.					5	
All figures are				and the contraction		CONTRACTOR OF THE PARTY OF THE
shown in tons	34,347 Tons	44,593 Tons	10,684 Tons	3,323 Tons	3,651.50 1	Ions Total 96,598 Tons

# American Red Cross

# Names Age Medical Problem Killed Injured to Nurse Maiden Name) Children in Home Family Member not in Shelter (Location If Known)

BHELTER MASTER FILE

# DISASTER SHELTER REGISTRATION

Shelter Location	
Shelter Telephone No.	Date of Arrival
Predisaster Address and Telephone I	No.
I do, do not, authorize n information concerning my whereat	elease of the above pouts or general condition.
Signature	
Date Left Shelter	
Time Left Shelter	
Postdisaster Address and Telephone	Number
-	

AMERICAN RED CROSS FORM 8972 (8-79)

TECHNICAL

RADIOLOGICAL

EMERGENCY

RESPONSE PLAN

APPENDIX VII

DECONTAMINATION

BUREAU OF RADIOLOGICAL HEALTH
S.C. DEPARTMENT OF HEALTH AND ENVIRONMENTAL CONTROL

## APPENDIX 11

### PERSONNEL DECONTAMINATION

Surface	Action	Technique	Advantages	Disadvantages
Skin and hands	fmulsifies and dissolves contaminate.	Wash 2-3 minutes and monitor. Do not wash more than 3-4 times.	Readily available and effective for most radioactive contamination.	Continued washing will defat the skin. Indis- criminate washing of other than affected parts may spread contamination.
Hair	Same as above.	Wash several times. If contamination is not lowered to acceptable levels, shave the head and apply skin decontamination methods.		
Skin and hands	Emulsifies, dissolves, and erodes.	Use light pressure with heavy lather. Wash for 2 minutes, 3 times. Rinse and monitor. Use care not to scratch or erode the skin. Apply lanolin or hand cream to prevent chapping.	Same as above.	Continued washing will abrade the skin.
Same as above.	Same as above.	Make into a paste. Use with additional water with a mild scrubbing action. Use care not to erode the skin.	Slightly more effective than washing with soap.	Will defat and abrade skin and must be used with care.
Skin and hands.	Emulsifies, dissolves, and erodes.	Make into a paste. Use with additional water with a mild scrubbing action. Use care not to erode the skin.	Slightly more effective than washing with soap.	Will defat and abrode skin and must be used with care.
Same as above.	Same as above.	Use with water. Rub for a minute and rinse.	Same as above.	Same as above
Same as above.	Same as above.	Use with additional water. Rub for 1 minute and wipe off. Follow with lanolin or hand cream.	Same as above.	Same as above.
	Skin and hands  Skin and hands  Same as above.  Same as above.	Skin and hands  Final State as above.  Skin and hands  Final State as above.  Same as above.	Skin and hands  fwulsifies and dissolves monitor. Do not wash more than 3-4 times.  Hair  Same as above.  Wash several times. If contamination is not lowered to acceptable levels, shave the head and apply skin decontamination methods.  Skin and hands  Emulsifies, dissolves, and erodes.  Skin and erodes.  Same as above.  Same as above.  Wash several times. If contamination is not lowered to acceptable levels, shave the head and apply skin decontamination methods.  Use light pressure with heavy lather. Wash for 2 minutes, 3 times. Rinse and monitor. Use care not to scratch or erode the skin. Apply lanolin or hand cream to prevent chapping.  Same as above.  Make into a paste. Use with additional water with a mild scrubbing action. Use care not to erode the skin.  Same as above.  Same as above.  Use with water. Rub for a minute and rinse.  Same as above.  Use with additional water. Rub for a minute and rinse.	Skin and hands  Contaminate.  Same as above.  Mash several times. If contamination is not lowered to acceptable levels, shave the head and apply skin decontamination methods.  Skin and hands  Emulsifies, dissolves, and erodes.  Skin and hands  Same as above.  Same as above.  Mash several times. If contamination is not lowered to acceptable levels, shave the head and apply skin decontamination methods.  Skin and hands  Emulsifies, dissolves, and erodes.  Same as above.  Same as above.  Same as above.  Make into a paste. Use with additional water with a mild scrubbing action. Use care not to erode the skin.  Skin and hands.  Emulsifies, dissolves, and erodes.  Whate into a paste. Use with additional water with a mild scrubbing action. Use care not to erode the skin.  Skin and hands.  Same as above.  Same as above.

<sup>\*</sup>Regin with the first listed method and then proceed step by step to the more severe methods, as necessary.

Me thod*	Surface	Action	lechnique	Advantages	Disadvantages
flushing	Hounds	Physical removal by flushing.	Wash wound with large amounts of water and spread edges to stimulate bleeding, if not profuse. If profuse, stop bleeding first, clean edges of wound, bandage, and if any contamination remains, it may be removed by normal cleaning methods, as above.	Quick and efficient if wound not severe.	May spread contamination to other areas of body if not done carefully.
Sweating	Skin of hands and feet	Physical removal by sweating.	Place hand or foot in plastic glove or booty. Tape shut. Place near source of heat for 10-15 minutes or until hand or foot is sweating profusely. Remove glove and then wash using standard techniques. Or gloves can be worn for several hours using only body heat.	Cleansing action is from inside out. Hand does not dry out.	If glove or booty is not removed shortly after profuse sweating starts and part washed with soap and water immediately, contamination may seep into the pores.
		AREA AND MATER	HAL DECONTAMINATION		
Method*	Surface	Action	Technique	Advantages	Disadvantages
Vacuum cleaning	Dry surfaces	Removes contaminated dust by suction.	Use conventional vacuum technique with efficient filter.	Good on dry, porous sur- faces. Avoids water reactions.	All dust must be fil- tered out of exhaust. Machine is contaminated.
Water	All nonporous surfaces (metal, painted, plastic etc.).	Dissolves and erodes.	For large surfaces Hose with high-pressure water at an optimum dis- tance of 15 to 20 feet. Spray vertical surfaces at an angle of incidence of 30° to 40°; work from top to bottom to avoid recontamination. Work upwind to avoid spray. Determine ci-aning rate experimentally, if pos- sible; otherwise, use a rate of 4 square feet per minute.	All water equipment may be utilized. Allows operation to be carried out from a distance. Contamination may be reduced by 50%. Water equipment may be used for solutions of other decontaminating agents.	Drainage must be con- trolled. Not suitable for porous materials. Oiled surfaces cannot be decontaminated. Not applicable on dry con- taminated surfaces (use vacuum); not applicable on pourous surfaces such as wood, concrete, can- vas, etc. Spray will be contaminated.

FEBRUARY 1982

Me thod*	Surface	Action	Technique	Advantages	Disadvantages
Water (Cont'd)	All surfaces	Dissolves and erodes.	For small surfaces Blot up liquid and hand- wipe with water and ap- propriate commercial desergent.	Extremely effective if done inmediately after spill and on nonporous surfaces.	Of little value in the decontamination of large areas, longstanding contaminants and porous surfaces.
Steam	Honporous surfaces (especially painted or offed surfaces).	Same as above.	Mork from top to bottom and from upwind. Clean surface at a rate of 4 square feet per minute. The cleaning efficiency of steam will be greatly increased by using detergents.	Contamination may be re- duced approximately 90% on painted surfaces.	Steem subject to same limitations as water. Spray hazard makes the wearing of water-proof outfits necessary.
Detergents	Monporous surfaces (metal, painted, glass, plastic, etc.).	Emulsifies contaminant and increases welling power of water and cleaning efficiency of steam.	a rag moistened with de- tergent solution then wipe with dry rag; use	and other materials which hold contamination. Contamination may be reduced by 90%.	May require personal contact with surface. May not be efficient on long-standing contamination.
Complexing agents	Honporous surfaces (especially unweath- ered surfaces; 1.e., no rust or calcareous growth).	Forms soluble complexes with contaminated material.	Complexing agent solution should contain 3% (by weight) of agent. Spray surface with solution. Keep surface with solution. Keep surface moist 30 minutes by spraying with solution periodically. After 30 minutes, flush material off with water. Complexing agents may be used on vertical and overhead surfaces by adding chemical foam (sodium carbonate or aluminum sulfate).	solution. Contamina- tion may be reduced by 75% in 4 minutes on un- weathered surfaces. Easily stored; carbon- ates and citrates are nontuxic, noncorrosive.	Requires application for 5 to 30 minutes. Little penetrating power; of small value on weathered surfaces.

Method*	Surface	Action	Technique	Advantages	Disadvantages
Organic solvents	Monporous surfaces (greasy or waxed sur- faces, paint or plas- tic finishes, etc.)	Dissolves organic materials (oil, paint, etc.).	Immerse entire unit in solvent or apply by wip- ing procedure (see Detergents).	Quick dissolving action. Recovery of solvent poor sible by distillation.	Requires good ventila- tion and fire precau- cautions. Toxic to personnel. Material bulky.
Inorganic acids	Metal surfaces (espe- cially with porous de- posits; i.e., rust or calcareous growth); circulatory pipe systems.	Dissolves porous deposits.	Use dip-bath procedure for movable items. Acid should be kept at a concentration of 1 to 2 normal (9 to 18% hydrochloric, 3 to 6% sulfuric acid). Leave on weathered surfaces for 1 hour. flush surface with water, scrub with a mater-detergent solution, and rinse. Leave in pipe circulatory system 2 to 4 hours; flush with plain water, a water-detergent solution, then again with plain water.		Personal hazard. Wear goggles, rubber boots, gloves and aprons. Good ventifation required because of toxicity and explosive gases. Acid mixtures should not be heated. Possibility of excessive corrosion if used without inhibitors. Sulfuric acid not effective on calcaraous deposits.
Acid mintures: hydrochloric, sulfuric, acetic, citric acids.	Monporous surfaces (especially with porous deposits); circulatory pipe systems.	Dissolves porous deposits.	Same as for inorganic acids. A typical electure consists of 0.1 gal. hydrochloric acid, 0.2 lb. sodium acetate and 1 gal. water.	Contamination may re- duced by 90% in 1 hour (unweathered surfaces). More easily handled than inorganic acid solutions.	Neethered surfacus may require prolonged treat- ment. Same safety pre- cautions as required for inorganic acids.
Caustics: lye (sodium hydroxide), calcium hydroxide, potassium hydroxide	Painted surfaces (horizontal).	Softens paint (harsh method).	Allow paint remover sol- ution to remain on sur- face until paint is softened to the point where it may be washed off with water. Remove remaining paint with long-handled scrapers. Typical paint remover solution: 10 gai. water, 4 lb. lye, 6 lb. boiler compound, 0.75 lb. corn- starch.	Minimum contact with contaminated surfaces. Easily stored.	Personal hazard (will cause burns). Reaction slow; thus, it is not efficient on vertical or overhead surfaces. Should not be used on aluminum or magnesium.
Trisodium phosphate	Painted surfaces (vertical, overhead).	Softens paint (mild method).	Apply hot 10% solution by rubbing and wiping procedure (see Detergent).	Contamination may be reduced to tolerance in one or two applications.	Destructive effect on paint. Should not be used on aluminum or magnesium.

VII-

FEBRUARY 1982

Method*	Surface	Action	Technique	Advantages	Disadvantages
Abreston	Monporous surfaces.	Removes surface.	Use conventional proce- dures, such as sanding, filing, and chipping; keep surface damp to avoid dust hazard.	Contamination may be re- duced to as low a level as oesired.	impracticable for porous surfaces because of penetration by moisture.
Sandblasting	Monporous surfaces.	Removes surface.	Keep sand wet to lessen spread of contamination. Collect used abrasive or flush away with water.	Practical for large sur- face areas.	Contamination spread over area must be removed. Contaminated dust is personnel hazard.
Vacuum blasting	Porous and nonporous surfaces.	Removes surface; traps and controls contami- nated waste.	Hold tool flush to sur- face to prevent escape of contamination.	Contaminated waste ready for disposal. Safest abrasion method.	Contamination of equipment.

1