



# Federal Emergency Management Agency

Washington, D.C. 20472

JAN 17 1986

MEMORANDUM FOR: Edward L. Jordan, Director  
Division of Emergency Preparedness and  
Engineering Response  
Office of Inspection and Enforcement  
Nuclear Regulatory Commission

FROM: *Richard W. Krimm*  
Richard W. Krimm  
Assistant Associate Director  
Office of Natural and Technological Hazards

SUBJECT: Medical Services Information for the Catawba 2  
Nuclear Station (NS)

This is in partial response to your request of September 13, 1985, for medical services information on several nuclear power Near-Term Operating Licenses (NTOL). For these NTOL's, you requested that the Federal Emergency Management Agency (FEMA) confirm that the offsite emergency plans include a list of local or regional medical facilities which have capabilities to provide treatment for radiation exposure.

The following extracts from the State and local radiological emergency offsite preparedness plans that support the Catawba NS are attached:

- ° Appendix 3 of Annex C, "MEDICAL FACILITIES FOR RECEIVING VICTIMS OF A RADIATION INCIDENT", pages C-8 through C-12 and C-21 through C-23, Part 1, South Carolina Operational Radiological Emergency Response Plan, revision 3, March 1985.
- ° Part 1, State Procedures to Support the Catawba Nuclear Station, IV. EXECUTION, Section V.B., "Medical and Public Health Support," pages 79 through 82, North Carolina Emergency Response Plan In Support of the Catawba Nuclear Station, revision 2, September 1984.

Hospitals and medical centers in the vicinity of the Catawba NS in South and North Carolina are listed that have been identified for treatment of radiologically contaminated individuals as well as additional facilities that could be called upon to provide assistance if needed.

This information is confirmation that a list of medical facilities has been identified for use in case of an emergency at Catawba.

If you have any questions, please contact Mr. Marlow J. Stangler, Technological Hazards Division, at 646-2856.

Attachments  
As Stated

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# **NORTH CAROLINA EMERGENCY RESPONSE PLAN**

In support of the Catawba Nuclear Station  
May 1983

Rev. 2, Sept. '84

- c. Further laboratory analysis assistance is available from SMRAP Signatory States.

#### 4. Resources Support Coordination.

- a. Resources and support assistance from sources external to State and local governments may be required to conduct emergency operations within the EPZ. To assure that these resources are committed in an efficient and effective manner, the SERT leader will designate a SERT member to serve as the State's representative at the Catawba crisis management center (near-site emergency operations facility).
- b. Duke Power Company will designate a company representative to serve with SERT. (See Duke Power Company Crisis Management Plan, Section B.)
- c. Gaston and Mecklenburg county governments will each designate a liaison to serve with SERT as a representative of the Board of County Commissioners.

#### B. Medical and Public Health Support.

##### 1. Hospital and Medical Services for Contaminated Individuals.

- a. RPS systematically visits and evaluates the capabilities, procedures, and willingness of North Carolina hospitals to accept and treat radiation accident victims. The evaluation form used for this is shown in Figure 18.
- b. Few hospitals in the State have the internal capability to evaluate radiation exposure and internal contamination. These limitations are adequately compensated for by the following:
  - (1) RPS has executed formal agreements with three in-state corporations (General Electric Corporation, Carolina Power and Light Company, and Duke Power Company) which have whole body counting equipment to be used in support of the emergency response plan. In addition, the Federal government and its contractors can provide whole body counting assistance.



- (2) DHR and several medical institutions in the State are capable of providing urinalysis to determine body burdens of radioactivity in victims. This is supplemented through available support from Federal and private commercial laboratories.
  - (3) RPS is prepared to arrange for complex blood studies to assess the amount of whole body radiation exposure. This includes the use of limited capabilities at major State medical institutions and services provided by Federal (NRC) agencies and their medical consultants.
  - (4) Through its evaluation program, RPS knows in advance which hospitals have limited expertise and capabilities. Special assistance is available from seven North Carolina physicians who have agreed to provide expert medical assistance in support of the State's response to radiation accidents.
2. RPS standard procedures and reference materials related to medical support include:
- a. Map showing the location of all hospitals that can provide medical support for victims of radiological accidents.
  - b. Current lists of names, addresses, phone numbers and administrators of all hospitals.
  - c. Copies of evaluation reports showing each hospital's capabilities, needs, willingness to accept contaminated patients, and their notification procedures.
  - d. Copies of each hospital's emergency response plans for radiation accident victims.
  - e. Procedures for selecting appropriate facilities to receive contaminated victims and for determining the quantity and type of support to be provided to those facilities.
3. The following North Carolina hospitals in the vicinity of the Catawba Nuclear Station, with the capabilities as noted, will support the Catawba Station and the surrounding communities in the event of a radio-logical emergency. (RPS maintains lists and locations of other hospitals at greater



distances from the station that will provide back-up support.)

- a. Charlotte Memorial Hospital, Charlotte, N.C.  
Telephone: 704/331-2121 Ext. 2145  
Administrator: Harry A. Nurkin, President  
Bed Capacity: 853  
Location: 1000 Blythe Boulevard  
Heliport: Grassed area suitable for use  
Distance from the Catawba Station: 27 miles  
Contact Person: John Baker, M.D.  
704/331-2121 Ext. 3181  
Hospital has a plan to treat 10 patients.
  - b. Gaston Memorial Hospital, Inc., Gastonia, N.C.  
Telephone: 704/866-2000  
Administrator: Thomas R. Matherlee, President  
Bed Capacity: 479  
Location: 2424 Court Drive  
Heliport: Cement pad behind hospital  
Distance from Catawba Station: 25 miles  
Contact Person: Thomas R. Matherlee,  
President 704/866-2129  
Hospital has a limited plan to treat 5 patients.
4. Radiological survey instrumentation will be provided by consultants to the hospitals listed above. RPS will also make recommendations to the SERT leader for additional support from the Federal government.
5. Transportation of Radiation Victims
- a. The Emergency Medical Services (EMS) Section, Facility Services Division, DHR is responsible for developing procedures to marshal ambulance and rescue resources and for coordinating emergency services at radiation accident sites and shelters.
  - b. RPS will advise EMS of the medical facilities to be evacuated, and those facilities capable of receiving radiated patients.
  - c. EMS staff, in consultation with RPS, will determine the number of vehicles needed and dispatch them to a local staging area as required.
  - e. If necessary, the Military Assistance to Safety and Traffic (MAST) programs will be used to assist in transporting non-ambulatory persons to and from medical facilities.

SOUTH CAROLINA  
OPERATIONAL  
RADIOLOGICAL EMERGENCY RESPONSE PLAN  
SCORERP - 84

IN SUPPORT OF  
FIXED NUCLEAR FACILITIES

JUNE 1984  
3rd Revision March 1985

APPENDIX 3 OF ANNEX C, MEDICAL FACILITIES FOR RECEIVING VICTIMS OF A RADIATION INCIDENT.

I. PURPOSE

The purpose of this appendix is to identify local medical facilities in the vicinity of the Catawba Nuclear Station, which have the capability to treat radiologically contaminated, injured individuals. Additionally, medical facilities throughout the state which are considered capable of providing medical support for contaminated, injured individuals will be listed.

II. MEDICAL FACILITIES IDENTIFIED FOR THE TREATMENT OF RADIOLOGICALLY CONTAMINATED INDIVIDUALS

A. Negotiations with local medical facilities have determined the willingness of the following hospitals to provide treatment to radiologically contaminated, injured individuals:

1. Divine Saviour Hospital and Nursing Home  
111 South Congress Street  
York, S. C. 29745  
BED CAPACITY: 51
2. Other facilities to be added pending results of negotiations.

For Letters of Agreement with the hospitals, see Attachment 3.

B. To determine other medical facilities throughout South Carolina considered capable of providing medical support for radiologically contaminated, injured individuals, a statewide survey was conducted in coordination with the South Carolina Hospital Association. Refer to Attachment 2 for copy of the survey questionnaire. Based upon the survey results received thus far, the following facilities are considered capable of providing support:

1. Anderson Memorial Hospital  
800 North Fant Street  
Anderson, S. C. 29621  
BED CAPACITY: 486
2. Barnwell County Hospital  
Reynolds Road  
Barnwell, S. C. 29812  
BED CAPACITY: 61



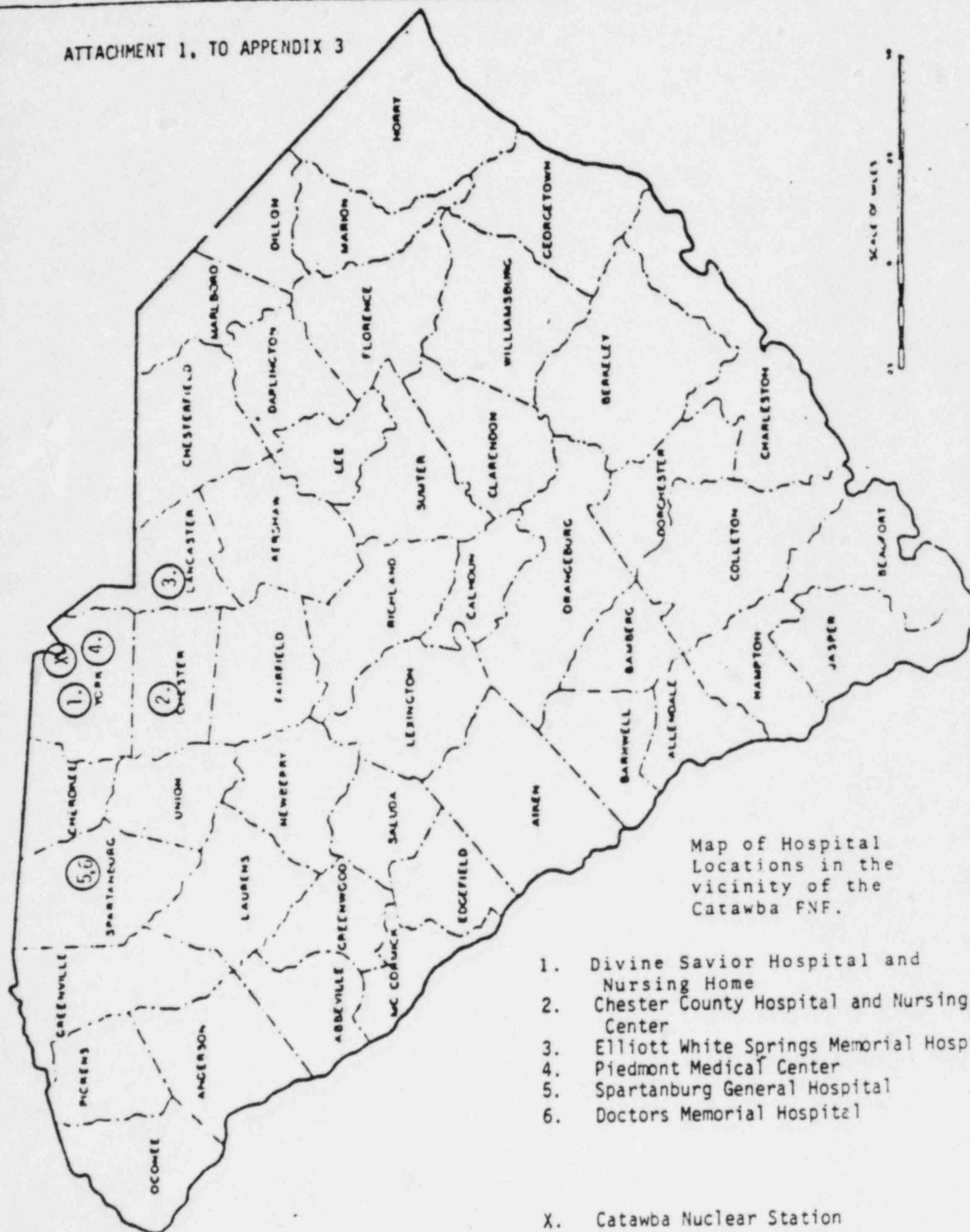
3. Beaufort Memorial Hospital  
21 South Ribaut Road  
Beaufort, S. C. 29902  
BED CAPACITY: 99
4. Bruce Hospital, Inc.  
514 South Dargan Street  
Florence, S. C. 29501  
BED CAPACITY: 84
5. Byerly Hospital  
Post Office Box 1070  
Hartsville, S. C. 29550  
BED CAPACITY: 151
6. Cannon Memorial Hospital  
110 Pendleton Street  
Pickens, S. C. 29671  
BED CAPACITY: 67
7. Charleston County Hospital  
326 Calhoun Street  
Charleston, S. C. 29401  
BED CAPACITY: 172
8. Cherokee County Memorial Hospital  
1420 North Limestone Street  
Gaffney, S. C. 29340  
BED CAPACITY: 162
9. Clarendon Memorial Hospital  
510 South Mill Street  
Manning, S. C. 29102  
BED CAPACITY: 97
10. Conway Hospital, Inc.  
1600 Ninth Avenue  
Conway, S. C. 29526  
BED CAPACITY: 160
11. Darlington Hospital  
Post Office Box 506  
Darlington, S. C. 29532  
BED CAPACITY: 52
12. Divine Saviour Hospital and Nursing Home  
111 S. Congress Street  
York, S. C. 29745  
BED CAPACITY: 51
13. Doctors Memorial Hospital  
389 Serpentine Drive  
Spartanburg, S. C. 29303  
BED CAPACITY: 108

14. Easley Baptist Hospital  
Fleetwood Drive  
Easley, S. C. 29640  
BED CAPACITY: 94
15. Elliott White Springs Memorial Hospital  
800 West Meeting Street  
Lancaster, S. C. 29720  
BED CAPACITY: 149
16. Georgetown General Hospital  
606 Black River Road  
Georgetown, S. C. 29440  
BED CAPACITY: 133
17. Greenville General Hospital  
701 Grove Road  
Greenville, S. C. 29605  
BED CAPACITY: 411
18. Lee County Memorial Hospital  
800 West Church Street  
Bishopville, S. C. 29010  
BED CAPACITY: 35
19. Lexington County Hospital  
2720 Sunset Boulevard  
West Columbia, S. C. 29169  
BED CAPACITY: 225
20. Mary Black Memorial Hospital  
1700 Skylyn Drive  
Spartanburg, S. C. 29302  
BED CAPACITY: 158
21. Medical University of S. C.  
171 Ashley Avenue  
Charleston, S. C. 29425  
BED CAPACITY: 510
22. The Mullins Hospital  
Post Office Drawer 511  
Mullins, S. C. 29574  
BED CAPACITY: 80
23. Newberry County Memorial Hospital  
2669 Kinard Street  
Newberry, S. C. 29108  
BED CAPACITY: 102
24. North Trident Regional Hospital  
University Road and I-26  
Charleston, S. C. 29405  
BED CAPACITY: 220

25. Oconee Memorial Hospital  
Highway 123, West  
Seneca, S. C. 29678  
BED CAPACITY: 141
26. Providence Hospital  
2435 Forest Drive  
Columbia, S. C. 29204  
BED CAPACITY: 191
27. Richland Memorial Hospital  
2201 Harden Street  
Columbia, S. C. 29203  
BED CAPACITY: 611
28. Roper Hospital  
316 Calhoun Street  
Charleston, S. C. 29401  
BED CAPACITY: 421
29. Self Memorial Hospital  
Edgefield Street  
Greenwood, S. C. 29646  
BED CAPACITY: 375
30. Spartanburg General Hospital  
101 East Wood Street  
Spartanburg, S. C. 29303  
BED CAPACITY: 569
31. Piedmont Medical Center  
Herlong Avenue  
Rock Hill, S. C. 29730  
BED CAPACITY: 273

In addition to the above, the Moncrief Army Hospital, Fort Jackson, Columbia, S. C., and the Navy Regional Medical Center, Charleston, S. C., are capable of providing treatment support.

ATTACHMENT 1. TO APPENDIX 3



ATTACHMENT 4 TO APPENDIX 3 - LETTER OF AGREEMENT WITH NORTH  
CAROLINA DEPARTMENT OF HUMAN RESOURCES

A G R E E M E N T

THIS AGREEMENT is made by and between the North Carolina Department of Human Resources and the South Carolina Department of Health and Environmental Control. It establishes interstate coordination for requesting the support of hospitals in the treatment of radiologically contaminated and injured individuals in the event of an accident at a Fixed Nuclear Facility (FNF).

SECTION 1. Should a radiological accident at a FNF exhaust either state's medical treatment capabilities, the designated Department from the adjoining sister state agrees that if notified, it will request and coordinate back-up support from its available medical facilities as needed.

SECTION 2. The Departments specified in THIS AGREEMENT will assign an individual to serve as a contact and coordinator in this interstate agreement. (Name and emergency telephone numbers to be provided.)

SECTION 3. THIS AGREEMENT is to become effective upon signing by both Department Heads. It shall be automatically renewed from year to year, subject to the right of either Department to terminate THIS AGREEMENT at any time during the term by furnishing thirty (30) days prior, written notice to the other Department that termination is desired.

The parties hereunder have executed THIS AGREEMENT as of the day and year herein written.

/S/ Sarah T. Morrow, M.D.  
M.D.  
SARAH T. MORROW, M.D., M.P.H.  
Secretary  
North Carolina Department of  
Human Resources

/S/ Robert S. Jackson,  
ROBERT S. JACKSON, M.D.  
Commissioner of the South  
Carolina Department of  
Health and Environmental  
Control

11-2-81  
Date

11-17-81  
Date



ATTACHMENT 5 TO APPENDIX 3 - LETTER OF AGREEMENT WITH  
DEPARTMENT OF ENERGY, OAK RIDGE REACTS

Department of Energy  
Oak Ridge Operations  
P. O. Box E  
Oak Ridge, Tennessee 37830  
1981

October 22,

Mr. E. Lee Bacot, Coordinator  
Office of Emergency Preparedness  
South Carolina Department of Health  
and Environmental Control  
2600 Bull Street  
Columbia, S. C. 29201

Dear Mr. Bacot:

RADIATION EMERGENCY ASSISTANCE CENTER TRAINING SITE (REACTS)

In response to your request of September 28, 1981, we are pleased to inform you that the DOE REACTS facility and team are available to provide backup support and assistance to the State of South Carolina in the event of a radiological accident or emergency occurring at any of South Carolina's Nuclear facilities.

The REACTS facility is operated by the Oak Ridge Associated Universities (ORAU) for the U.S. Department of Energy (DOE). Dr. Karl F. Hubner is the Director of REACTS. The REACTS facility and team are part of a continuing DOE program, however, the continued availability of REACTS assistance is dependent on continuing federal appropriations.

The REACTS provides very modern facilities for handling radiation accident patients. It is designed to cope with any type of radiation exposure accident which might occur in the Oak Ridge area. The REACTS staff, in conjunction with the Oak Ridge Hospital of the United Methodist Church Disaster Team and staff, is prepared to treat radiation victims quickly and competently and to provide advice and assistance when radiation accidents occur outside the Oak Ridge area. Following initial emergency treatment in REACTS, the patient(s) can be transferred to local hospitals in accordance with usual admission procedures for conventional medical and surgical follow-up, if necessary. Since radiation accidents are infrequent, the REACTS staff is involved on a daily basis in training programs and radiation exposure studies utilizing the facility to assure its constant readiness.

Mr. E. Lee Bacot  
Page 2  
October 22, 1981

REACTS is also a source of information on the epidemiological aspects of human exposure to radiation. A computerized data bank of human radiation effects from accidental and medical exposures has been established and serves as a basis for epidemiological studies as well as providing timely data to those involved in handling radiation accidents.

No fee or retainer is required for the provision of backup services by REACTS. However, should you desire to utilize the services of REACTS, we would expect to recover those costs which could reasonably be related to handling such an incident including all charges billed to DOE or ORAU by hospitals and physicians. You are free to inform the Nuclear Regulatory Commission that REACTS is available as a backup support capability to your ongoing program. We do ask that you inform all members of your staff with the mechanisms and appropriateness of seeking REACTS assistance. This can best be facilitated by direct contact with the REACTS Director, Dr. Karl F. Hubner, Oak Ridge Associated Universities, Post Office Box 117, Oak Ridge, Tennessee 37830 or telephone (615) 576-3098.

We trust this information is adequate for your needs.

Sincerely,

ER-13:REP

/S/ William R. Bibb  
William R. Bibb, Director  
Research Division

cc: C. C. Lushbaugh, ORAU  
K. F. Hubner, ORAU  
C. W. Edington, ER-70, HQ, GTN  
J. W. Thiessen, ER-71, HQ, GTN  
W. P. Snyder, CC-10, ORO  
J. W. Range, M-4, ORO