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Instruction and Information on Used Energy-Related Laboratory Equipment Grants for Educational Institutions of Higher Learning

United States
Department of Energy
Office of Energy Research
University & Industry
Programs Division
Washington, D.C. 20585

MASTER

February 1980

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USED ENERGY-RELATED LABORATORY EQUIPMENT GRANTS

The United States Department of Energy (DOE), in accordance with its responsibility to encourage research and development in the energy area, awards grants of used energy-related laboratory equipment to universities and colleges and other non-profit educational institutions of higher learning in the United States for use in energy-oriented educational programs in the life, physical and environmental sciences and engineering.

Proposals for the grant of available equipment in this program should be submitted by an eligible non-profit educational institution to the DOE Field Office responsible for the site where the specific equipment is known to be located.

Eligibility and Procedure

Any non-profit educational institution of higher learning, such as a university, college, junior college, hospital, and technical institute and museum, located in the United States and interested in establishing or upgrading energy-oriented educational programs in the life, physical and environmental sciences and engineering is eligible. High schools, grade schools and vocational trade schools are excluded. An energy-oriented program is one that deals partially or entirely in energy-related topics.

Lists of equipment are available for review by educational institutions at any of the sites listed in Appendix A. These lists cannot be removed from the site premises. Continuous daily changes in the available equipment shown on them preclude duplication and distribution to an educational institution. The responsibility for reviewing and locating specific equipment on these lists rests solely with the requesting institution, and therefore, any telephone or written requests to contractor or DOE for special attention in locating equipment cannot be honored. Advance appointments should be made prior to a visit to one of the designated sites to review the equipment lists.

After the equipment lists have been reviewed and specific equipment located and "earmarked," a proposal should be prepared for submission to designated DOE Field Offices, as shown in Appendix B. Because of the problem and cost of equipment storage

and the continuous demand by other Federal agencies for equipment, a maximum period of 30 days will be permitted from the time of "earmarking" the equipment to the time of receipt of a proposal. The review of proposals and the awarding of equipment grants by the responsible representatives of DOE will be accommodated on a first-received, first-qualified basis.

The cost of care and handling incident to the grant must be borne by the institution; such costs normally consist of packing, crating, shipping and insurance, and are limited to actual costs. Arrangements for shipment and the reimbursement of any of the aforementioned actual costs should be coordinated between the institution and each of the DOE installations responsible for the equipment; these arrangements should be initiated by the requesting institution within one week after receipt and acceptance of the grant by the institution. The cost of any repairs and/or modifications to any equipment will be borne by the recipient institution.

Note: Responsibility for location of specific equipment rests with the requesting institution. *Specific* inquiries concerning equipment are to be directed to the office handling university relations at the DOE Field Offices. *General* inquiries may be made to the DOE's Education Programs Division, Washington, D.C. 20545. Proposals for the grant of specific equipment may be submitted by any college or university to the appropriate DOE Field Office.

TYPICAL EQUIPMENT

Typical items of educational training apparatus or equipment which may be requested are listed below. It should be emphasized that these examples are merely illustrative and not inclusive.

- ___ radiation detectors, monitors, scalars, and counters
- ___ nuclear reactors and accelerators
- ___ neutron howitzers and generators
- ___ critical and subcritical assemblies
- ___ bubble and cloud chambers
- ___ dosimeters, survey meters, radiometers, and spectrometers
- ___ radiation shields and reactor associated components
- ___ mass spectrometers, infrared spectrometers, and ultraviolet spectrometers
- ___ gas and liquid chromatographs
- ___ ammeters, voltmeters, electrometers
- ___ linear and pulse-height analyzers
- ___ power supplies
- ___ catalyst test units
- ___ distillation columns
- ___ temperature and pressure recorders

- ___ ion control gauges
- ___ gas tracers and analyzers
- ___ solar collectors and heliometers

Title to such equipment when granted by the DOE will vest with the educational institution.

Note: Neutron sources and other radioactive materials will not be included unless they are essential components of the equipment to be granted. As such, the source materials must have been specifically designed for the particular equipment. Nuclear materials may be loaned to colleges and universities through a Nuclear Materials Loan Program administered by the DOE's Education Programs Division.

The following list is illustrative of the type of equipment or purposes for which equipment *will not be provided*.

1. General supplies.
2. Equipment intended by the institution for contractual project research.
3. Furniture, such as desks, tables, chairs, conventional laboratory benches, typewriters, etc. (except as such equipment may be an essential component of and physically attached to an energy-related laboratory equipment system).
4. Refrigerators, tools, etc.
5. Computing equipment.
6. Equipment determined to be required by other DOE laboratories.

INSTITUTIONAL COSTS

Packing, crating and shipping charges are to be borne by the institution requesting the grant. The handling of these charges should be coordinated between the institution and the DOE installation possessing the equipment. The costs of repairs and modifications to any equipment are to be borne by the institution.

PROPOSAL GUIDE

Proposals for grants of used energy-related laboratory equipment for either undergraduate programs or graduate programs should generally follow the format outlined below:

1. *Proposal Objectives*

Provide a brief statement relative to the type of equipment needed and indicate whether any discussions concerning such equipment have been held with the laboratory or other DOE facility personnel.

2. *Energy-Oriented Science and Engineering Education Program*

Include a brief description of the energy-oriented science and engineering education program of which the proposed equipment would be a part and any specific experiments planned for its use.

3. *Courses*

Please provide the following for each course of which the proposed equipment would be a part:

Course Number

Educational Level—Undergraduate: 1, 2, 3, 4,
Graduate: M.S., Ph.D.

Title

Description

Enrollment (show for several years)

Frequency of offering

4. *Graduate Degrees Awarded*

Graduate Programs: Please show the number and level (M.S., Ph.D.) of degrees awarded within the area to be supported for the past five years.

5. *Data on Present Facility*

For each faculty member participating in the proposed laboratory program, please list the following information:

Name

Degree

Brief description of background and experience related to subject of equipment application.

6. *Prior Grants*

Reference should be made to any prior federal educational assistance grant for equipment (financial or otherwise) to the same or to a related department. Explain the relationship, if any, to the currently requested equipment and to the proposed program.

7. Certifications

The following certifications should be provided:

- a. A statement that the institution will utilize the requested equipment for energy-related instructional purposes in regularly scheduled laboratory and instructional courses.
- b. A statement that the conditions as set forth below are included as a part of the grant agreement.

TERMS AND CONDITIONS

When a grant is executed, the following Terms and Conditions will apply:

"GRANT NO. _____ is placed in accordance with and subject to the following terms and conditions:

1. The term "grantee" as used herein means the educational institution receiving this grant. The term "DOE" means the "United States Department of Energy" and its duly authorized representatives. The phrase "persons acting on behalf of the DOE" includes authorized contractors of the DOE and their duly authorized representatives. The term "equipment" as used herein means the used items described on the face hereof as the item(s) being granted. The term "DOE Facility" means the laboratory, plant, or office, operated by or on behalf of the DOE, in possession and/or responsible for each equipment item shown on the face hereof.
2. The grantee understands that the DOE may fulfill its obligations under this grant through any DOE Facility(s).
3. The grantee agrees to pay for all costs of packing, normal and special handling crating and shipping, and agrees to coordinate the costs and any payments with the DOE Facility.
4. The grantee will be responsible for any repair and modification costs to any equipment received under this grant.
5. The grantee agrees to provide shipping instructions to and arrange for the payment of shipping costs with the cognizant DOE Facility(s) within *one week* from acceptance of this grant.

6. Neither the Government, DOE , nor persons acting on behalf of the DOE make any warranty or other representation, express or implied, that the equipment granted under this program will accomplish the results for which it is requested or intended.
7. The grantee hereby releases and agrees to hold the Government, DOE , or persons acting on behalf of the DOE harmless for any and all liability of every kind and nature whatsoever resulting from the receipt, shipping, installation, operation, handling, use and maintenance of the equipment after said equipment is physically removed from the DOE Facility(s).
8. The grantee will utilize the granted equipment primarily for energy-related instructional purposes in regularly scheduled laboratory and instructional courses.
9. The grant of any nuclear equipment granted hereunder does not relieve the grantee from complying with the Atomic Energy Act of 1954, as amended, and the regulations issued pursuant thereto, including any requirements for permits and licenses, with respect to such equipment. (See especially, regulations of the Nuclear Regulatory Commission, Chapter 1, Title 10, Code of Federal Regulations.)
10. The disposition of any patents or inventions or discoveries resulting from the use of the equipment granted hereunder shall be the responsibility of the grantee, provided that the grantee shall give the Government an irrevocable, royalty-free non-exclusive license for use of such inventions, or discoveries for governmental purposes. (To the extent that DOE has any rights in such inventions or discoveries pursuant to Section 152 of the Atomic Energy Act of 1954, as amended, the DOE hereby waives such rights.) The grantee hereby waives all claims for damages under Section 183 of Title 35 U.S. Code by reason of the imposition of any secrecy order on any patent application, and also any claim for just compensation or award, under the Atomic Energy Act of 1954, as amended, with respect to any invention or discovery made or conceived in the course of or in connection with work performed with the granted equipment.
11. The grantee agrees to comply with the DOE's regulations (Part 4 of Title 10, Chapter I, of the Code of Federal Regulations), as amended, implementing the provisions of Title VI of the Civil Rights Act of 1964.
12. At the end of the first year of use of the equipment, the institution agrees to provide the DOE with a report on

the use of the equipment; such reports will describe (1) any new courses instituted as a result of the grant of the equipment, (2) existing courses which have been expanded as a result of the grant of the equipment; or (3) other ways the equipment has been used to enhance courses, i.e., experiments, etc.

13. The grantee in signing this grant accepts the grant its terms and conditions and acknowledges that this agreement and the proposal referenced herein comprise the total agreement between the grantee and the DOE ."

Appendix A

WHERE TO REVIEW EQUIPMENT LISTS

CALIFORNIA

Property Administration
Atomics International Division
Rockwell International Corporation
P.O. Box 309
Canoga Park, California 91304
Attn: Mrs. Louise Hof
(213) 341-1000, Ext. 1911

Property Manager
Lawrence Berkeley Laboratory
University of California
Berkeley, California 94720
Attn: Mr. Wm. Hesson
(415) 486-4124

Business Services, L-145
Lawrence Livermore Laboratory
University of California
Livermore, California 94550
Attn: C. L. Blue
(415) 422-8404

Department of Energy
7th Floor
333 Market Street
San Francisco, California 94105
Attn: Energy Resources Center
(415) 566-0305

COLORADO

Rocky Flats Area Office
United States
Department of Energy
P. O. Box 928
Golden, Colorado 80401
Attn: Mr. Don Ofte
Area Manager
(303) 497-2025

Department of Energy
P.O. Box 26247
Belmar Branch
1075 S. Yukon
Lakewood, Colorado 80226
Attn: Mr. Epifino Vallejo
(303) 234-2480

DISTRICT OF COLUMBIA

Department of Energy
Room 5-B-180
1000 Independence Ave., S.W.
Washington, D.C. 20585
Attn: Ms. Verlette Gatlin
(202) 252-5969

GEORGIA

Department of Energy
1655 Peachtree Street, N.E.
8th. Floor
Atlanta, Georgia 30309
Attn: Mr. Brian Coyne
(404) 881-4463

IDAHO

Property Management Branch
EG&G Nuclear Company
550 Second Street
Idaho Falls, Idaho 83401
(208) 526-1300

Property Management and
Administrative Services Branch
Idaho Operations Office
United States
Department of Energy
550 Second Street
Idaho Falls, Idaho 83401
Attn: J. P. Anderson
(208) 526-1308

ILLINOIS

Supply Division, Property
Management
Argonne National Laboratory
9700 South Cass Avenue
Argonne, Illinois 60439
Attn: Mr. Hank Jurgensen
(312) 972-2780, Ext. 4655

Chicago Operations
and Regional Office
Department of Energy
Room A-1136
175 West Jackson Boulevard
Chicago, Illinois 60604
Attn: Ms. Gina Holman
(312) 353-5779

IOWA

Materials Handling and Property
Office
Room 152, Spedding Hall
Ames Laboratory
Iowa State University
Ames, Iowa 50011
Attn: T. F. Rush
(515) 294-1780

MASSACHUSETTS

Department of Energy
150 Causeway St.
Room 700
Boston, Massachusetts 02114
Attn: Ms. Kathy Healy
(617) 223-5257

MISSOURI

Kansas City Area Office
United States
Department of Energy
P. O. Box 202
Kansas City, Missouri 64141
Attn: Mr. Robert Bulcock,
Area Manager
(816) 997-3341

Department of Energy
23rd. Floor
324 E. 11th. St.
Kansas City, Missouri 64106
Attn: Mr. F. Gilbert Lagergren
(816) 374-5184

NEVADA

Property Management
Nevada Operations Office
United States
Department of Energy
P. O. Box 14100
Las Vegas, Nevada 89114
Attn: Mr. John Smits
(702) 734-3564

NEW MEXICO

University Relations Division 4231
Sandia Laboratories
P.O. Box 5800
Albuquerque, New Mexico 87115
Attn: J. C. Tidmore
(505) 264-2838

NEW YORK

Property Management
Building 211
Brookhaven National Laboratory
Upton, Long Island, New York 11973
Attn: Mrs. Grace Fales
(516) 345-2123, Ext. 2977

Department of Energy
26 Federal Plaza
Room 3200
New York, New York 10007
Attn: Mr. William Wood
Administrative Officer
(212) 264-1021

OHIO

Property Management
Mound Laboratory
Monsanto Research Corporation
P.O. Box 32
Miamisburg, Ohio 45342
Attn: Donald O'Connor
(513) 865-3988

PENNSYLVANIA

Department of Energy
1421 Cherry Street
10th. Floor
Philadelphia, Pennsylvania 10102
Attn: Mr. Brian Coyne
(215) 597-9066

SOUTH CAROLINA

University Relations Office
Savannah River Laboratory
E. I. du Pont de Nemours and
Company
Aiken, South Carolina 29801
Attn: Mr. E. G. Swingle
(803) 725-3053

TEXAS

Department of Energy
P.O. Box 35228
2626 Mockingbird Lane
Dallas, Texas 75235
Attn: Mr. Marvin E. DeMoss
Director
Office of Management
and Support
(214) 767-7701

TENNESSEE

Materials Department
Oak Ridge National Laboratory
P.O. Box X
Oak Ridge, Tennessee 37830
Attn: Mr. W. O. Graves
(615) 574-4370

WASHINGTON

Excess Utilization
Atlantic Richfield Hanford Company
Building 1167-A
P.O. Box 250
Richland, Washington 99352
Attn: Marv McCollom
(509) 942-6706

Department of Energy
1992 Federal Building
915 Second Avenue
Seattle, Washington 98174
Attn: Ms. Ellen McCraney
(206) 442-5969

Appendix B

WHERE TO MAIL PROPOSALS FOR USED EQUIPMENT GRANTS

One copy of the proposal for each site where equipment is located should be sent to the responsible DOE Field Office as shown:

Mail to Following ERDA Office:

H. E. Roser, Manager
Albuquerque Operations Office
United States
Department of Energy
P.O. Box 5400
Albuquerque, New Mexico 87115
(505) 844-7231

Robert H. Bauer, Manager
Chicago Operations Office
United States
Department of Energy
9800 South Cass Avenue
Chicago, Illinois 60439
(312) 972-2000

Charles E. Williams, Manager
Idaho Operations Office
United States
Department of Energy
550 2nd Street
Idaho Falls, Idaho 83401
(202) 526-1322

Mahlon E. Gates, Manager
Nevada Operations Office
United States
Department of Energy
P.O. Box 14100
Las Vegas, Nevada 89114
(702) 734-3211

If Equipment is Located at:

Bendix Corporation (Missouri)
Dow Chemical Company (Colorado)
General Electric Company (Florida)
Lovelace Biomedical and Environmental
Research Laboratories (New Mexico)
Los Alamos Scientific Laboratory (New
Mexico)
Mound Laboratory (Ohio)
Sandia Laboratories (New Mexico)
ZIA Company (New Mexico)

Ames Laboratory (Iowa)
Argonne National Laboratory (Illinois)
Brookhaven National Laboratory (New
York)
Fermi National Accelerator Lab.
(Illinois)
Princeton Plasma Physics Lab. (New
Jersey)

EG and G (Idaho)

Reynolds Electric and Engineering
Company, Inc. (Nevada)

Robert J. Hart, Manager
Oak Ridge Operations Office
United States
Department of Energy
P.O. Box E
Oak Ridge, Tennessee 37830
(615) 576-4444 (Hart)

Alex G. Fremling, Manager
Richland Operations Office
United States
Department of Energy
P.O. Box 550
Richland, Washington 99852
(509) 942-7395

Joe LaGrone, Manager
San Francisco Operations Office
United States
Department of Energy
1333 Broadway - Wells Fargo Building
Oakland, California 94612
(415) 273-7111

Robert L. Morgan, Manager
Savannah River Operations
United States
Department of Energy
P.O. Box A
Aiken, South Carolina 29801
(803) 725-2277

Goodyear Atomic Corporation (Ohio)
National Lead Company of Ohio (Ohio)
Oak Ridge National Laboratory / Union
Carbide Corporation (Tennessee)
Oak Ridge Associated Universities, Inc.
(Tennessee)

Atlantic Richfield Hanford Co.
(Washington)
Battelle-Pacific Northwest Laboratory
(Washington)
United Nuclear Industries (Washington)
Westinghouse Electric Corporation
(Washington)

Gulf Energy and Environmental
Systems (California)
Lawrence Berkeley Laboratory
(California)
Lawrence Livermore Laboratory
(California)
Rockwell International Corporation /
Atomics International Division
(California)
Stanford Linear Accelerator Center
California

E. I. du Pont de Nemours and Company
(South Carolina) -
Savannah River Ecology Laboratory
(South Carolina)