

S. _____

To establish a national program to improve collaboration between the national laboratory system of the Department of Energy and the private sector so as to foster the development of technologies in areas of significant economic potential in order to enhance the Nation's economic competitiveness and strategic well-being, and for other purposes.

IN THE SENATE OF THE UNITED STATES

JANUARY ____, 1989

MR. DOMENICI (for himself, _____) introduced the following bill; which was read twice and referred to the Committee on _____.

A BILL

To establish a national program to improve collaboration between the national laboratory system of the Department of Energy and the private sector so as to foster the development of technologies in areas of significant economic potential in order to enhance the Nation's economic competitiveness and strategic well-being, and for other purposes.

1 BE IT ENACTED BY THE SENATE AND THE HOUSE OF
2 REPRESENTATIVES OF THE UNITED STATES OF AMERICA IN CONGRESS
3 ASSEMBLED, That this Act may be referred to as the "Department of
4 Energy National Laboratory Cooperative Research and Technology
5 Competitiveness Act of 1989".

1 SEC. 2. DEFINITIONS.

2 For purposes of this Act, the term --

3 (1) (A) except as provided in subparagraphs (B) and (C),
4 "National Laboratory" means the following Department of
5 Energy laboratories --

- 6 (i) Lawrence-Livermore National Laboratory;
- 7 (ii) Lawrence-Berkeley National Laboratory;
- 8 (iii) Los Alamos National Laboratory;
- 9 (iv) Sandia National Laboratory;
- 10 (v) Fermi National Accelerator Laboratory;
- 11 (vi) Princeton Plasma Physics Laboratory;
- 12 (vii) Idaho National Engineering Laboratory;
- 13 (viii) Argonne National Laboratory;
- 14 (ix) Brookhaven National Laboratory;
- 15 (x) Oak Ridge National Laboratory (including the
16 Y-12 Plant);
- 17 (xi) Pacific Northwest Laboratory;
- 18 (xii) Ames Laboratory;
- 19 (xiii) Stanford Linear Accelerator Center;
- 20 (xiv) Bates Linear Accelerator Facility;
- 21 (xv) Center for Energy and Environment Research;
- 22 (xvi) Coal Fired Flow Facility;
- 23 (xvii) Energy Technology Engineering Center;
- 24 (xviii) Hanford Engineering Development Laboratory;
- 25 (xix) Inhalation Toxicology Research Institute;
- 26 (xx) Laboratory for Energy-Related Health Research;

1 (xxi) Laboratory of Biomedical and Environmental
2 Sciences;

3 (xxii) Laboratory of Radiobiology and Environmental
4 Health;

5 (xxiii) Michigan State University-DOE Plant Research
6 Laboratory;

7 (xxiv) Notre Dame Radiation Laboratory;

8 (xxv) Oak Ridge Associated Universities;

9 (xxvi) Radiobiology Laboratory;

10 (xxvii) Savannah River Ecology Laboratory;

11 (xxviii) Savannah River Laboratory;

12 (xxix) Solar Energy Research Institute; and

13 (xxx) Stanford Synchrotron Radiation Laboratory.

14 (B) Such term does not include Naval Nuclear
15 Propulsion Reactor Laboratories, or their contractors or
16 subcontractors performing work covered under Executive Order
17 12344, as codified in section 7158 of title 42, United
18 States Code.

19 (C) Such terms shall includes any future government-
20 owned, contractor-operated laboratory facilities established
21 as Department of Energy Multi-program Laboratories or
22 Program-Dedicated Facilities.

23 (2) "contract" means any contract, grant, or
24 cooperative agreement as those terms are used in sections
25 6303, 6304, and 6305 of title 31, United States Code,
26 entered into between any Federal agency and any contractor

1 for the performance of research, experimental, or
2 developmental activities funded in whole or in part by the
3 Federal Government. Such term includes any assignment,
4 substitution of parties, or subcontract of any type entered
5 into for the performance of such activities.

6 (3) "cooperative research and development agreement"
7 means any agreement between the Directors of one or more
8 National Laboratories and one or more Federal or non-federal
9 parties under which the Federal government, through such
10 National Laboratory or Laboratories, provides personnel,
11 services, facilities, equipment, or other resources with or
12 without reimbursement and the non-federal parties provide
13 funds, personnel, services, facilities, and equipment, or
14 other resources toward the conduct of specified research,
15 development, and demonstration efforts that are consistent
16 with the missions of the National Laboratory; except that
17 such term does not include a procurement contract or
18 cooperative agreement as those terms are used in sections
19 6303, 6304, and 6305 of title 31, United States Code.

20 (4) "director of a National Laboratory" means the
21 employee of the Department of Energy laboratory manager or
22 operator who directs the management and operation of such
23 National Laboratory;

24 (5) "Federal Agency" means any executive agency as
25 defined in section 105 of title 5, United States Code, and
26 the military departments defined by section 102 of title 5,

1 United States Code.

2 (6) "funding agreement" means any contract, grant, or
3 cooperative agreement entered into between the Secretary of
4 Energy and a contractor operating a National Laboratory
5 that provides for such contractor to perform research,
6 experimental, and development activities at such National
7 Laboratory.

8 (7) "laboratory manager or operator" means the
9 contractor who has signed a contract with the Secretary for
10 management and operation of a National Laboratory (but only
11 with respect to activities relating to such management or
12 operation); and

13 (8) "Secretary" means the Secretary of Energy.

14 SEC. 3. FINDINGS.

15 The Congress finds that --

16 (1) the Nation's economic competitiveness and
17 strategic well-being depends on the development of advanced
18 energy technologies, such as those anticipated to evolve
19 from research and development on high temperature
20 superconducting materials;

21 (2) the national laboratories of the Department of
22 Energy constitute a multi-discipline capability in general
23 science, energy science, and defense related technology
24 development with incomparable research and computer
25 facilities with research and support staffs of demonstrated
26 international expertise;

1 (3) while the National Laboratories have demonstrated
2 successes in technology transfer into the private sector,
3 the effectiveness of this effort can be significantly
4 enhanced if --

5 (A) industry is made more aware of the National
6 Laboratory research and development capabilities and
7 activities;

8 (B) technology transfer is established as a
9 significant element of the mission of the National
10 Laboratories;

11 (C) the National Laboratories are made more aware
12 of industry market requirements; and

13 (D) industry becomes more involved with the
14 activities of National Laboratories at an early enough
15 in the research and development process to provide
16 guidance on the development of commercially viable
17 products; and

18 (4) a national initiative is needed, if there is to be
19 a timely transfer of energy technology developments from the
20 National Laboratories to the private sector, except that
21 nuclear weapons design, development, production, and
22 maintenance must remain the primary mission of the
23 Department of Energy nuclear weapons complex.

24 SEC. 4. PURPOSES.

25 The purposes of this Act are to --

26 (1) enhance collaboration between universities and the

1 private sector and the National Laboratories of the
2 Department of Energy so as to foster the development of
3 technologies in areas of significant economic potential.

4 (2) establish that it is a mission of each National
5 Laboratories to foster, through the transfer of technology
6 to the private sector consistent with the national security
7 and a fair return on the taxpayers' investment, the
8 commercialization of technologies developed in connection
9 with its research, experimental, and development activities;
10 and

11 (3) better meet the continuing responsibility of the
12 Federal Government to ensure the full use of the results of
13 the Nation's Federal investment in the National
14 Laboratories' research and development in meeting
15 international competition.

16 SEC. 5. DIRECTIVE.

17 The Secretary shall --

18 (1) take such actions as he deems appropriate and
19 consistent with law to further the mission set forth in
20 section 3; and

21 (2) ensure that the mission set forth in section 3 is
22 carried out in a manner that is not detrimental to the
23 military mission of any National Laboratory.

24 TITLE I -- NATIONAL LABORATORY CENTERS FOR TECHNOLOGY MANAGEMENT

25 SEC. 101. POLICY.

26 For the purposes of title I, it is the policy of Congress

1 that --

2 (1) intellectual property rights in technology
3 developed at the National Laboratories be managed so as to
4 promote the competitiveness of United States industries;

5 (2) the Secretary prescribe regulations for cooperative
6 research and development agreements and intellectual
7 property rights arising under such agreements; and

8 (3) the directors of the National Laboratories devise
9 implementing procedures consistent with the policy
10 guidelines set forth by the Secretary.

11 SEC. 102. COOPERATIVE RESEARCH AND DEVELOPMENT AGREEMENTS.

12 (a) GENERAL AUTHORITY. -- The Secretary shall prescribe
13 regulations ensuring that the contract for the management and
14 operation of any National Laboratory authorizes the director of
15 such Laboratory:

16 (1) to enter into cooperative research and development
17 agreements and to negotiate the terms and conditions of such
18 agreements with--

19 (A) other federal agencies;

20 (B) units of state or local government;

21 (C) industrial organizations including
22 corporations, partnerships and limited partnerships,
23 consortia, and industrial development organizations;

24 (D) public and private foundations;

25 (E) nonprofit organizations (including
26 universities); or

1 (F) other persons or entities, including
2 licensees of inventions or computer software owned by
3 the National Laboratory manager or operator.

4 (2) to negotiate intellectual property licensing
5 agreements for National Laboratory owned inventions or
6 computer software, assigned or licensed to the National
7 Laboratory by third parties including voluntary assignment
8 by employees.

9 (b) SPECIFIC AUTHORITY. -- Each director of a National
10 Laboratory may include provisions in any cooperative research and
11 development agreement negotiated and entered into pursuant to
12 this section permitting such laboratory manager or operator to --

13 (1) accept, retain, and use funds, personnel,
14 services, and property from collaborative parties and
15 provide personnel, services, and property to collaborating
16 parties;

17 (2) grant or agree to grant in advance to a
18 collaborative party, intellectual property licenses,
19 assignments, or options thereto, in any invention or
20 computer software, made, in whole or in part, by an employee
21 of a National Laboratory under the cooperative research and
22 development agreement; and

23 (3) to the extent consistent with Department of Energy
24 regulations, orders, and directives pertaining to conflict
25 of interest, permit employees or former employees of a
26 laboratory manager or operator to participate in efforts to

1 transfer to the private sector inventions or computer
2 software, such employees developed or made while in the
3 service of such laboratory.

4 SEC. 103. CRITERIA FOR ENTERING INTO AGREEMENTS.

5 In determining whether to enter into a cooperative research
6 and development agreements, the director of a National Laboratory
7 shall determine that --

8 (1) facilities at the National Laboratory will be
9 available to conduct the activities that are the subject of
10 the cooperative research and development agreement;

11 (2) the activities that are the subject of the
12 cooperative research and development agreement would not
13 interfere with programs of the Department of Energy;

14 (3) the activities that are the subject of the
15 cooperative research and development agreement would not
16 create a future detrimental burden on the National
17 Laboratory; and

18 (4) the proposed cooperative research and development
19 agreement is consistent with applicable guidelines of the
20 Secretary pursuant to section 102 for cooperative research
21 and development agreements.

22 SEC. 104. AGREEMENT CONSIDERATIONS.

23 In deciding which cooperative research and development
24 agreements to enter into, and which licenses, assignments, and
25 options to grant, the director of a National Laboratory shall --

26 (1) give special consideration to small business firms

1 and consortia involving small business firms;

2 (2) give preference to business units located in the
3 United States that agree that products embodying inventions
4 or computer software, made under the cooperative research
5 and development agreement or produced through the use of
6 such inventions or computer software, will be developed and
7 manufactured substantially in the United States;

8 (3) in the case of any industrial organizations or
9 other person subject to the control of a foreign company or
10 government, as appropriate, take into consideration whether
11 or not such foreign government permits United States
12 agencies, organizations, or other persons to enter into
13 cooperative research and development agreements and
14 licensing agreements; and

15 (4) provide universities the opportunity to
16 participate in such cooperative research and development
17 agreements when such participation will contribute to the
18 purpose of this Act.

19 SEC. 105. MODIFICATION OR DISAPPROVAL OF AGREEMENT.

20 The Secretary may disapprove or require the modification of
21 a cooperative research and development agreement under subsection
22 (a). Such agreement shall provide a 30-day period beginning on
23 the date the agreement is submitted to the Secretary by the
24 director of the National Laboratory concerned, within which
25 period such action may be taken by the Secretary. In any case in
26 which the Secretary disapproves or requires the modification of

1 any cooperative agreement submitted under this title, the
2 Secretary shall transmit a written explanation of such
3 disapproval or modification to the director of the National
4 Laboratory concerned within 30 days after such submission. If
5 such action is not taken within this thirty day period, the
6 cooperative research and development agreement shall be deemed
7 approved.

8 SEC. 106. LIMITATION.

9 The cumulative total of non-appropriated funds contracted to
10 be received in any year under all cooperative research and
11 development agreements entered into by the director of any
12 National Laboratory under this Act may not exceed an amount
13 equal to 10 percent of the annual budget of such National
14 Laboratory, unless approved in advance by the Secretary.

15 SEC. 107. CONFLICTS OF INTEREST.

16 (a) In negotiating or entering into any cooperative research
17 and development agreement under this section, and in negotiating
18 or granting any license or assignment with respect to
19 intellectual property subject to this section, the director of a
20 National Laboratory (and any employee of a laboratory manager or
21 operator who may be acting on behalf of the Director) shall carry
22 out such actions --

23 (1) in compliance with all applicable laws and
24 regulations;

25 (2) in the public interest; and

26 (3) not for the benefit of the director of the National

1 Laboratory, the employee, a related person, the laboratory
2 manager or operator, or a related entity.

3 (b) A director of a National Laboratory may not enter into
4 negotiations --

5 (1) for a cooperative research and development
6 agreement with a related person or a related entity; or

7 (2) for granting a license or assignment with respect
8 to intellectual property subject to this section to a
9 related person or a related entity until such negotiations
10 are approved in advance by the Secretary.

11 (c) Any cooperative research and development agreement
12 proposed to be entered into by a director of a National
13 Laboratory with a related person or a related entity, and any
14 license or assignment proposed to be granted by the director of a
15 National Laboratory to a related person or a related entity, may
16 not become effective until it is approved by the Secretary.

17 (d) For purposes of this section, the term --

18 (1) "related person" means a person related to a
19 director of a National Laboratory or to an employee of
20 such a director by marriage, blood, or otherwise, as
21 determined by the Secretary under regulations; and

22 (2) "related entity" means a parent corporation of
23 a laboratory manager or operator, a subsidiary or
24 affiliate of a laboratory manager or operator, or any
25 other entity that has a financial relationship with, or
26 that is acting as an agent for, a laboratory manager or

1 operator, as determined by the Secretary under
2 regulations.

3 SEC. 105. RECORDS OF AGREEMENTS.

4 The director of each National Laboratory shall maintain a
5 record of all cooperative research and development agreements
6 entered into under this title, and shall submit annually a copy
7 of such record to the Secretary.

8 SEC. 106. DUTIES AND RESPONSIBILITIES OF THE SECRETARY.

9 (a) The Secretary shall review all existing regulations,
10 policy guidelines, orders, directives, procedures, and
11 administrative processes associated with the abilities of the
12 directors of the National Laboratories to:

13 (1) enter into cooperative relationships and
14 cooperative research and development agreements with private
15 industry or universities;

16 (2) undertake work-for-others; and

17 (3) operate user facilities.

18 (b) The Secretary shall review existing standards for
19 resolving potential conflicts of interests to ensure that such
20 standards adequately establish guidelines for situations likely
21 to arise through the use of the authorities granted in this
22 subtitle, including but not limited to cases where present or
23 former National Laboratory employees or their partners negotiate
24 licenses or assignments of titles to inventions or negotiate
25 cooperative research and development agreements with Federal
26 agencies (including the Department of Energy or the laboratory

1 manager or operator with which the employee involved is or was
2 formerly employed).

3 (c) The Secretary shall--

4 (1) review the impact of the exchange of scientific
5 information, scientific innovation, and commercialization
6 resulting from cooperative research and development
7 agreements.

8 (2) survey non-federal parties interested in entering
9 into cooperative research and development agreements with
10 the National Laboratories to determine if adequate measures
11 exist to encourage scientific innovation and
12 commercialization resulting from cooperative research and
13 development agreements; and

14 (3) based on the results of such review and survey
15 develop policy recommendations that shall be submitted to
16 the Congress.

17 (d) The Secretary shall--

18 (1) formulate and carry out a comprehensive set of
19 policy guidelines to advance the goals of this subtitle,
20 based on the review under subsection (a);

21 (2) report to Congress and the President within 90
22 days after the date of the enactment of this subtitle on the
23 status of this review; and

24 (3) within 180 days after the date of the enactment of
25 this subtitle, implement the policy guidelines under
26 paragraph (1) that do not require regulations under section

1 242.

2 SEC. 107. DEFINITIONS.

3 (a) For purposes of this title, the term--

4 (1) "collaborative party" means a party to a
5 cooperative research and development agreement;

6 (2) "computer software" means recorded information,
7 regardless of form or the media on which it may be recorded,
8 comprising computer programs or documentation thereof;

9 (3) "intellectual property" means patents, trademarks,
10 copyrights, mask works, and other forms of comparable
11 property rights protected by federal law;

12 (4) "invention" means any invention that is or may be
13 patentable or otherwise protected under Title 35, United
14 States Code, or any novel variety of plant that is or may be
15 protected under the Plant Variety Protection Act (7 U.S.C.
16 2321 et seq.);

17 (5) "laboratory owned" means any rights in
18 intellectual property conveyed under this title to a
19 contractor operating a National Laboratory or any rights in
20 intellectual property arising under the operating contract
21 for a National Laboratory where rights are not expressly
22 taken by the United States Government or by a subcontractor;

23 (6) "made" when used in conjunction with any invention
24 means the conception or first actual reduction to practice
25 of such invention;

26 (7) "subject invention" means any invention of a

1 National Laboratory first conceived or reduced to practice
2 in the performance of work under a contract or funding
3 agreement for the operation of a National Laboratory;

4 (8) "third parties" means domestic entities located in
5 the United States who agree to manufacture and to conduct
6 research and development substantially in the United States
7 including --

8 (A) Federal agencies other than the Department of
9 Energy;

10 (B) units of State or local government;

11 (C) industrial organizations, such as
12 corporations, partnerships, limited partnerships,
13 consortia, or industrial development organizations;

14 (D) public and private foundations;

15 (E) nonprofit organizations such as universities;
16 and

17 (F) licensees of inventions or computer software
18 owned by the laboratory manager or operator.

19 TITLE II -- CENTERS FOR RESEARCH ON RESEARCH ON
20 HIGH-TEMPERATURE SUPERCONDUCTING TECHNOLOGIES

21 SEC. 201. FINDINGS.

22 For purposes of this title, the Congress finds that:

23 (1) extensive research in superconducting materials is
24 being conducted by the Department of Energy to support its
25 programmatic activities in High Energy Physics, Magnetic
26 Fusion Energy, Energy Storage Systems, Electric Energy

1 Systems, and Energy Conservation, pursuant to the Federal
2 Non-nuclear Energy Research and Development Act of 1974
3 (P.L. 93-577), the Energy Reorganization Act of 1974 (P.L.
4 93-483), and the Department of Energy Organization Act (P.L.
5 95-91);

6 (2) recent developments in high-temperature
7 superconducting materials hold great promise for highly
8 efficient energy storage and transmission, medical
9 diagnostics, magnets for physics research and fusion
10 reactors, and smaller super-computers;

11 (3) if the United States is a world leader in basic
12 research on high-temperature superconducting materials, then
13 programs supporting this research at the Department of
14 Defense, the National Science Foundation, and the Department
15 of Energy should be maintained and strengthened;

16 (4) there is intense international interest in the
17 commercialization of high-temperature superconducting
18 materials and the key to success in its commercialization
19 lies in the rapid development of these materials and the
20 identification of their applications; and

21 (5) the National Laboratories have demonstrated
22 expertise in high-temperature superconductivity research and
23 have a proven record in research in enabling technologies
24 which can benefit the industrial sector efforts in the
25 commercialization of new technologies and product
26 development.

1 SEC. 202. PURPOSES.

2 The purposes of this title are --

3 (1) to provide for research on critical enabling
4 technologies to assist United States industry in the
5 commercialization of high-temperature superconductors;

6 (2) to provide national organization and coordination
7 in the research, development and commercialization of high-
8 temperature superconductors; and

9 (3) to encourage private industry, university, and
10 National Laboratory interaction through centers for research
11 on high-temperature superconductivity at the National
12 Laboratories.

13 SEC. 203. ESTABLISHMENT OF THE HIGH-TEMPERATURE SUPERCONDUCTOR
14 RESEARCH INITIATIVE.

15 The Secretary of Energy shall initiate and carry out a
16 cooperative program of research on enabling high-temperature
17 superconductor technology and on the practical applications of
18 such technology (here-in-after referred to in this title as the
19 "Initiative").

20 SEC. 205. COUNCIL ON ENABLING TECHNOLOGIES.

21 (a) ESTABLISHMENT. -- The Secretary of Energy shall form the
22 "Council for Research on Enabling Technologies" (here-in-after
23 referred to in this title as the "Council") that shall be
24 composed or representatives of appropriate government agencies,
25 universities, and industry to provide advice to the Secretary in
26 setting goals and strategies for the Initiative.

1 (b) DUTIES. -- The Council shall recommend guidelines for
2 the release of the technical findings and developments made by
3 the cooperative research centers established pursuant to
4 subsection (b). Guidelines for releasing technical findings set
5 forth by the Council shall be consistent with guidelines set
6 forth by affected Federal agencies.

7 (c) AVOIDANCE OF DUPLICATION.-- The Council shall keep
8 appraised of activities taking place at the existing Research
9 Centers on Superconductivity and Superconductivity Pilot Centers.
10 In carrying out its responsibilities under subsection (a), the
11 Council shall recommend to the Secretary and such Centers
12 measures to ensure that unnecessarily duplicative research or
13 activities are not being carried out at these Centers.

14 SEC. 206. CENTERS FOR RESEARCH ON ENABLING TECHNOLOGIES.

15 (a) The Secretary shall establish cooperative research
16 centers in enabling technologies for high-temperature
17 superconducting materials and applications (here-in-after
18 referred to in this title as "Centers") at one or more National
19 Laboratories with appropriate university and private industry
20 participants.

21 (b) The Centers shall be located at National Laboratories
22 that demonstrate expertise in --

23 (1) high-temperature superconductivity research; and

24 (2) research in associated technologies including --

25 (A) thin film and bulk ceramic synthesis and
26 processing; and

1 (B) characterization of physical, chemical,
2 and structural properties in materials.

3 SEC. 207. PARTICIPATION BY THE NATIONAL LABORATORIES.

4 (a) MISSION OF NATIONAL LABORATORIES.-- The Secretary shall
5 ensure that the National Laboratories ~~shall~~ may participate in
6 the Initiative, to the extent that such participation is
7 consistent with the purposes of this Act.

8 (b) AGREEMENTS.-- The Secretary shall enter into such
9 contracts and agreements, with other Federal agencies, with U.S.
10 private industrial or research organizations, or consortia, or
11 with any college or university, as may be necessary to provide
12 for the active participation of the National Laboratories in the
13 Initiative.

14 (c) REQUIREMENTS. -- The Initiative shall include provisions
15 for one or more National Laboratory to conduct research,
16 experimental, and development activities relating to high-
17 temperature superconductivity. Such activities may include
18 research, experimental, and development activities in associated
19 technologies (including thin film and bulk ceramic synthesis and
20 processing and the characterization of physical, chemical, and
21 structural properties in materials).

22 SEC. 208. PERSONNEL EXCHANGES.

23 The Initiative may include provisions for temporary
24 exchanges of personnel between any domestic firm or university
25 referred to in this title and the National Laboratories that are
26 participating in the Initiative. The exchange of personnel may

1 be subject to such restrictions, limitations, terms and
2 conditions as the Secretary considers necessary in the interest
3 of national security.

4 SEC. 209. OTHER DEPARTMENT OF ENERGY RESOURCES.

5 (a) AVAILABILITY OF RESOURCES.-- Subject to subsection (b),
6 the Secretary may make available to other departments or agencies
7 of the Federal Government, and to any participant in research and
8 development projects under the Initiative, any facilities,
9 personnel, equipment, services, and other resources of the
10 Department of Energy for the purpose of conducting research and
11 development projects under the Initiative.

12 (b) REIMBURSEMENT. -- At his discretion, the Secretary may,
13 to the extent practicable, make facilities available under this
14 section only to the extent that the cost of the use of such
15 facilities is reimbursed by the user.

16 SEC. 210. BUDGETING FOR HIGH-TEMPERATURE SUPERCONDUCTIVITY
17 RESEARCH.

18 To the extent the Secretary considers appropriate and
19 necessary, the Secretary, in preparing the research and
20 development budget of the Department of Energy to be included in
21 the annual budget submitted to the Congress by the President for
22 fiscal years 1990, 1991, 1992, 1993, 1994, and 1995 under section
23 1105(a) of title 31, United States Code, shall provide for
24 programs, projects, and activities that encourage the
25 development of new technology in the field of high-temperature
26 superconductivity.

1 SEC. 211. COST-SHARING AGREEMENTS.

2 (a) PERMITTED PROVISIONS. -- The Secretary shall ensure,
3 pursuant to title I, that contracts for the operation of National
4 Laboratories provide the director of each National Laboratory
5 that is participating in the Initiative or the contractor
6 operating any such National Laboratory the authority to receive
7 funds under any cooperative research and development agreement
8 entered into with a domestic firm or university under the
9 Initiative.

10 (b) CONSIDERATIONS. -- The director of each National
11 Laboratory that is participating in the Initiative, in
12 determining the type and extent of its laboratory participation
13 in carrying out work for others, shall undertake such work only
14 when facilities are available and there use would not interfere
15 with Department of Energy programs, and such nor create a future
16 detrimental burden on the National Laboratory.

17 (c) LIMITATIONS. -- (1) Not more than 10 percent of the
18 annual operating budget of any National Laboratory may be derived
19 from non-appropriated funds derived from contracts entered into
20 under the Initiative, except to the extent approved in advance by
21 the Secretary.

22 (2) Under subsection (a), no National Laboratory may
23 receive more than \$10,000,000 of non-appropriated funds, or
24 the equivalent of such amount, from any person under any
25 cooperative research and development agreement entered into
26 under the Initiative, except to the extent approved in

1 advance by the Secretary.

2 SEC. 212.

3 ~~OVERSIGHT-RELATING-TO-THE-INITIATIVE.~~

4 ~~(a)-DISAPPROVAL-AND-MODIFICATION-OF-AGREEMENTS:-----~~(1)-The
5 Secretary-may-review-a-cooperative-research-and-development
6 agreement-for-the-purpose-of-disapproving-or-requiring-the
7 modification-of-the-cooperative-research-and-development
8 agreement:--Each-such-agreement-shall-provide-a-30-day-period
9 within-which-the-agreement-may-be-disapproved-or-modified-by-the
10 Secretary-beginning-on-the-date-the-agreement-is-submitted-to-the
11 Secretary.

12 ~~(2)-In-any-case-in-which-the-Secretary-disapproves,or~~
13 ~~requires-the-modification-of,any-agreement-submitted-to-the~~
14 ~~Secretary-under-this-section,within-30-days-after-such~~
15 ~~submission,the-Secretary-shall-transmit-a-written-explanation-of~~
16 ~~such-disapproval-or-modification-to-the-head-of-the-National~~
17 ~~Laboratory-concerned.~~

18 (a) RECORD OF AGREEMENTS. -- Each National Laboratory shall
19 maintain a record of all agreements entered into under this
20 subtitle section and submit such record to the Secretary on an
21 annual basis.

22 SEC. 213. AVOIDANCE OF DUPLICATION.

23 In carrying out the Initiative, the Secretary shall ensure
24 that unnecessarily duplicative research is not performed at the
25 research facilities of the Department of Energy (including the
26 National Laboratories) that are participating in the Initiative.

TITLE III. GENERAL PROVISIONS

SEC. 301. AUTHORITY OF THE SECRETARY.

(a) Nothing in this Act may be construed to affect or limit

--

(1) the authority of the Secretary to control all classified or sensitive (as defined pursuant to section 148 of the Atomic Energy Act of 1954, as amended) research contracts and agreements to which the Department of Energy or a National Laboratory is a party; or

(2) the vesting of title in the Department of Energy of all intellectual property that is made under classified or sensitive (as defined pursuant to section 148 of the Atomic Energy Act of 1954, as amended) research in a National Laboratory or in a facility of a collaborative party under a cooperative research and development agreement and that is classified or sensitive.

SEC. 302. REGULATIONS.

(a) Within 180 days after the date of the enactment of this Act, the Secretary shall prescribe regulations for implementing sections 102, 303, and 304. In prescribing such regulations the Secretary shall provide opportunity for public comment on proposed regulations.

(b) Any such regulations shall be guided by the purpose of this Act.

(c) Before the Secretary issues regulations under this section, the Secretary shall consult with the Office of Federal

1 Procurement Policy to review such regulations for consistency
2 with this subtitle.

3 SEC. 303. PATENT OWNERSHIP AND THE CONDITIONS OF OWNERSHIP.

4 (a) DISPOSAL OF TITLE TO INVENTIONS. -- Notwithstanding
5 section 152 of the Atomic Energy Act of 1954 (42 U.S.C. 2182),
6 section 9 of the Federal Non-nuclear Energy Research and
7 Development Act of 1974 (42 U.S.C. 5908), or other provision of
8 law, the Secretary shall dispose of the title to any subject
9 invention made in the performance of a Department of Energy
10 contract to manage or operate any National Laboratory in the same
11 manner as applied to small business and nonprofit organizations
12 under Chapter 18 of title 35, United States Code, except that a
13 condition of such disposal shall be the retention by the United
14 States of a royalty-free license to use such subject invention
15 for United States Government purposes.

16 (b) RETENTION OF TITLE BY UNITED STATES. -- (1) Whenever a
17 manager, operator or employee of a National Laboratory under a
18 contract makes a subject invention to which the Secretary has
19 determined (at the time of contracting for the management and
20 operation of the National Laboratory) to retain title for
21 exceptional circumstances under section 202(a)(ii) of title 35,
22 United States Code, the title to the subject invention shall be
23 retained by the Government unless the National Laboratory at
24 which the invention is made requests title to such invention and
25 the Secretary does not notify the director of the National
26 Laboratory --

1 (A) within 90 days after receipt of such request that
2 the subject invention is covered by a determination under
3 such section 202(a) (ii); or

4 (B) within 150 days after receipt of such request that
5 the subject invention has been classified or has been
6 designated sensitive technical information as authorized by
7 section 148 of the Atomic Energy Act of 1954.

8 (2) Whenever a manager or operator of a National
9 Laboratory makes a subject invention to which the Secretary has
10 determined (at the time of contracting for the management and
11 operation of the National Laboratory) to retain title because the
12 invention is made in the course of or under a funding agreement
13 described in section 202(a) (iv) of title 35, United States Code,
14 the title to the subject invention shall be retained by the
15 Government unless the director of the National Laboratory at
16 which the invention is made requests title to such invention and
17 the Secretary does not notify the director of the National
18 Laboratory ~~within 90 days after receipt of such request that the~~ *drop*
19 invention --

20 (A) within 150 days after receipt of such request that
21 the subject invention has been classified or has been
22 designated sensitive technical information as authorized by
23 section 148 of the Atomic Energy Act of 1954; and

24 (B) within 90 days after receipt of such request that the
25 subject invention is covered by a determination under such
26 subsection 202(a) (iv).

1 (3) The Secretary may not use export control statues or
2 regulations as the sole basis for refusing a request for title to
3 a subject invention.

4 (4) If the Secretary does not notify the director of the
5 National Laboratory that has requested title to a subject
6 invention in accordance with this section, such National
7 Laboratory shall be deemed to have elected title to the invention
8 under the Government-wide contractor patentable ownership
9 provisions of Chapter 18 of title 35, United States Code.

10 (c) The Secretary may, by rule with notice and public
11 comment under 5 U.S.C. 553, exempt from the operation of
12 subsection (b) any category of inventions that he determines is
13 directly related to research and development on the design,
14 manufacture, or utilization of any nuclear weapon or component.

15 SEC. 304. INTELLECTUAL PROPERTY.

16 (a) CONTRACT PROVISIONS. -- Any Department of Energy
17 contract for the management or operation of a National
18 Laboratory shall provide --

19 (1) that any royalties or income that is earned by the
20 manager or operator of a National Laboratory from the
21 licensing of laboratory-owned intellectual property rights
22 in any fiscal year shall be used as authorized under
23 subsection 202(c) (7) (E) of title 35, United States Code and
24 Section 13(a) (1) (B) (i) - (iv) and section 13(a) (2) - (4) of the
25 Stevenson-Wydler Technology Innovation Act of 1980 (15
26 U.S.C. 3710c(a) (1) (B) (i) - (iv) and 3710c(a) (2) - (4); and

1 (2) that the costs of obtaining and protecting
2 intellectual property rights in any invention or computer
3 software, owned by the National Laboratory shall be paid for
4 by the laboratory manager or operator as a cost shared
5 expense under a cooperative research and development
6 agreement.

7 (b) The Secretary shall ensure that all intellectual
8 property granted to a laboratory manager or operator shall be
9 subject to a royalty-free license to use and reproduce such
10 intellectual property for United States Government purposes.

11 (c) The Secretary shall establish procedures to have the
12 management of intellectual property rights, including
13 procurement, retention, and licensing of such rights, in
14 connection with laboratory-owned inventions and computer
15 software, be the responsibility of the director of the National
16 Laboratory at which the invention or computer software are made,
17 developed or assigned.

18 (d) The Secretary shall prescribe regulations, orders, or
19 directives prohibiting any laboratory manager or operator who has
20 received title to intellectual property under this section from
21 receiving money or other benefit from the use or licensing of
22 such property for the benefit of the laboratory manager or
23 operator, except for research and development associated with
24 activities at the National Laboratory to promote technology
25 transfer as authorized by law, or in special circumstances, as
26 may be approved by the appropriate Department of Energy

1 Operations Office manager.

2 (e) COMPENSATION. -- (1) Subject to paragraph (2), in return
3 for retaining title to any intellectual property rights in any
4 invention or discovery made in performance of a Department of
5 Energy cooperative research and development agreement, the
6 manager or operator of any National Laboratory shall pay to the
7 United States reasonable compensation based on the value of the
8 technology transferred. The amount of the payment arising as a
9 result of the transfer shall be set by an arbitration board
10 consisting of one member selected by the manager or operator of
11 the National Laboratory, one member selected by the Secretary,
12 and one member jointly selected by the manager or operator and
13 the Secretary. In determining the payment, the arbitration
14 boards shall set an amount that is proportionate with the
15 research and development costs funded by the United States. The
16 arbitration board shall have discretion to permit the payment to
17 be made in installments according to the extent the manager or
18 operator uses or employs the intellectual property.

19 (2) Paragraph (1) shall not apply if:

20 (A) the contract manager and operator is operating
21 the National Laboratory for no profit or fee beyond
22 expenses; and

23 (B) such contract manager or operator is offering
24 the intellectual property for fair market value and any
25 value or royalties the contractor derives from the
26 intellectual property will be returned to the National

1 Laboratory or the Federal Treasury in accordance with
2 Section 202(c) (7) (E) of title 35, United States Code.

3 SEC. 305. MARCH-IN RIGHTS.

4 The Secretary may require the licensing to third parties of
5 all intellectual property owned by the laboratory manager or
6 operator that is subject to the provisions of this subtitle in
7 the same manner as provided under section 203 of title 35, United
8 States Code.

9 SEC. 306. OVERSIGHT.

10 (a) The Secretary, the Inspector General of the Department
11 of Energy, and the Comptroller General shall conduct periodic
12 audits of activities of the National Laboratories under this
13 Act.

14 (b) Nothing in this Act diminishes the responsibility of
15 the Secretary to keep Congress fully and currently informed or
16 the right of Congress to review and receive information with
17 respect to any agreement, license, or intellectual property
18 subject to this Act.

19 SEC. 307. COPYRIGHTS AND PATENTS.

20 This title does not confer any new authority on the
21 Department of Energy to obtain a copyright or a patent.

22 SEC. 308. LIABILITY OF THE UNITED STATES.

23 The United States may not be held liable for a claim
24 brought by any person alleging injury resulting from a product
25 embodying intellectual property or from a product produced
26 through the use of intellectual property acquired under this

1 subtitle. The preceding sentence does not apply to such a
2 product if the product is produced by the Federal Government or
3 at the request of the Federal Government.

4 SEC. 309. EFFECTIVE DATE.

5 This Act shall take effect 180 days after the date of the
6 enactment of this Act (regardless of whether regulations have
7 been promulgated under section 302). The Secretary shall
8 immediately enter into negotiations with each laboratory manager
9 or operator to amend all existing contracts for the operation of
10 the National Laboratories, to reflect this Act.

TO: NORM LATIKER

TEL: ~~738-0213~~
821-2030

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821-2049

FROM

JOE ALLEN

DOC

TEL: 327-8100

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I NEED YOUR COMMENTS BY
NOON TODAY (IF POSSIBLE)



EXECUTIVE OFFICE OF THE PRESIDENT
OFFICE OF MANAGEMENT AND BUDGET
WASHINGTON, D.C. 20503

July 6, 1988

MEMORANDUM FOR: DEPARTMENT OF COMMERCE
DEPARTMENT OF DEFENSE
DEPARTMENT OF ENERGY
DEPARTMENT OF JUSTICE
DEPARTMENT OF TREASURY

FROM: Joseph S. Mezir 
Deputy Associate Director
for Energy and Science

SUBJECT: Interagency Coordinating Meeting on Title IV of
S.1480: Technology Management Policy for the
Department of Energy's (DOE) National
Laboratories

On Friday, July 8, at 2 p.m., there will be a meeting to discuss Title IV of Senator Domenici's bill 1480 (also called Amendment No. 1627-Department of Energy National Laboratory Cooperative Research Initiatives Act). It will be held in Conference Room 10103 at the New Executive Office Building.

Title IV contains Technology Management policies that will guide the DOE laboratories in their future joint ventures. It includes Intellectual Property contract Provisions, Technical Data and computer Software Ownership Conditions, Patent Ownership Conditions, and Provisions on Authorities to Enter into Cooperative R&D Agreements.

Because of the breadth of these issues, it is important that all the agencies with concerns in these areas meet to help develop an Administration Position on these provisions. It is very important that each of the subsections be discussed and the views of each of the various agencies be understood. Then OMB staff will then be able to incorporate agency views into a position statement on this Title. The resulting statement could then be used either for a "floor position" on the bill or as a means for suggestions changes, for discussions with the Senator or his staff.

In Attachment A there are terse descriptions of the contents of each section of Title IV and, where appropriate, terse statements reflecting agency concerns OMB staff feel are yet to be resolved. Some of these concerns are major, others are minor; nevertheless, they need to be cleared up so that everyone knows where we stand on the issues.

I have also attached a short piece from a Department of Energy (DOE) regulation that describes the function and role of DOE's National Laboratory Contractors (Attachment B). These labs are Government Owned/Contractor Operated (GO/CO) entities. One contractor, such as the University of California, may operate more than one lab (in this case 3 labs) or it may operate only one, such as the University of Chicago at the Argonne National Laboratory near Chicago. In either case, lab directors are the employees of the contractor, not the manager of the contracting firm.

I hope this exposition of the issues will enable us to sort through the various sections of Title IV as quickly as possible so we can spend the bulk of the hour in discussing each agency's rationale for their positions on the issues.

~~Please call Judith Bostock at 293-3873 with the names and birthdates of all attendees for this Friday afternoon meeting so we can pre-clear you into the building. Thank you for your cooperation.~~

Attachments

Attachment A

Discussion: Title XV of S.1480

Sec. 401-404: Findings, Purpose, Policy, and Definitions of Title IV-Technology Management at the Department of Energy National Laboratories

Statement:

The National Laboratories have demonstrated successes in technology transfer into the private sector but this has not been considered a main mission of these laboratories. The National Laboratories should be controlled in such a manner as to promote the use of technology and devices developed in the course of their research to improve the competitive advantage of U.S. industries. More effective management means streamlining the contracting process while adequately protecting the intellectual property present in the laboratory.

Thus (401(2)), "management authority for intellectual property must be granted to the Directors of the DOE National Laboratories to ensure that they can negotiate with industry to set up cooperative R&D agreements."

Issues:

1. **Status of the Director of a DOE National Laboratory:** National Laboratories are operated by contractors. The only role of the contractor is to execute agency directives. The "Labs" are not legal entities and do not employ Federal personnel. The only legal entity involved is the contractor responsible for managing the laboratory. Effectively S.1480 by-passes the contractor, and gives management authority to one of the contractor's employees. But the laboratory director is neither responsible for execution of the contract to manage the laboratory nor is this individual able to execute a contract on behalf of the Government without a delegation from the agency. (Energy, Justice argue this is a major concern.)

Commerce and Treasury, on the other hand, would argue that although, perhaps, not the "best" way to achieve Federal technology transfer, an approach such as the Domenici bill would ensure that there is an entity besides the Department with the responsibility to see to commercialization of the results of Federally-funded R&D. Whether this entity is the director of the laboratory or the contractor, per se, is not a key issue.

2. Approach to Technology Transfer: Ignoring legal issues, is this the best way to achieve the desired result of technology transfer from the DOE laboratories? (General: All agencies have this concern.)

The Department of Energy argues that the agency should require that all income earning intellectual property resulting from collaborative research agreements between DOE laboratories and private sector parties should be given directly to the private sector entity participating in the agreement. The National Laboratories should be viewed as technical resources for the private sector; they should be controlled by policies that would prevent them from being in competition with private sector entities.

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3. Larger Issues: Historically DOE has had the mandate to disseminate and publish all of its research for the use of the public. OMB notes that now a series of technology transfer bills has clearly moved to a policy of withholding information so that it can be exploited for private profit. Nevertheless, no one is suggesting that particular private companies should be given exclusive use of Government research facilities and then exclusive use of the lucrative products that the company chooses to develop with Government funds. Thus, there is a conflict between the individual steps taken to advance technology transfer and the overall purpose of Government laboratories. This basic conflict between public and private interests remains to be resolved. Perhaps that is the issue that should be discussed instead of focusing on the details of legislation that simply side-steps this basic conflict.

*B.S. !!
WPSNG*

Sec. 405-406: Cooperative R&D Agreements and Contract Considerations

Statement:

The Secretary of Energy shall permit the director of any of its National Laboratories to enter into cooperative agreements on behalf of the Department of Energy and to negotiate intellectual property licensing agreements for its own laboratory.

Under such agreements the director may accept, retain, and use funds, personnel, services, and property from collaborating parties and provide personnel, services and property to these collaborating parties.

Agreements of value less than or equal to \$1 million are not subject to the approval of the Secretary of Energy. For agreements exceeding \$1 million the Secretary of Energy shall approve, disapprove, or require modifications within a 30-day period beginning on the date the laboratory notifies the Secretary. Agreements shall not exceed 10 percent of a laboratory's annual budget and each agreement shall not exceed \$10 million.

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Issues:

1. **Constitutionality:** It is officials of the Executive Branch who are responsible to both Congress and the President for executing agency programs. Is it constitutional for a non-Government employee to execute the functions of an Executive Branch officer or his Federal designee? (Justice notes, too, that this constitutional argument and other more complex arguments would also relate to Title II of the bill.)
2. **Appropriation Transfers:** Congress appropriates funds for specific purposes. It is the responsibility of the Executive Branch to ensure that these funds are expended for those purposes. At the very least, legislation would have to delegate authority to a private sector entity or a private individual in a legally responsible manner and appropriate funds to be spent by that entity or that individual. (Energy, OMB, and Justice find this a very troublesome aspect of the legislation.)

Sec. 407: Patent Ownership and the Conditions of Ownership

Statement:

A National Laboratory for the purposes of this section shall be treated in the same manner as small business and non-profit organizations.

The laboratory shall have automatic election of title rights to inventions unless the Department has notified the laboratory within 90 days that the invention has been designated sensitive or classified or that the technical information is covered by an exceptional circumstances determination.

The Secretary of Energy may not use export control statutes or regulations as a basis for refusing to grant the rights of automatic election of an invention. Exceptional circumstances provisions of the patent code are not applicable solely on the basis of these export control statutes.

Issues:

1. Export Control Statutes: These statutes alone are not a valid reason to withhold potentially valuable commercial property from contractors. (General: All agencies agree on this point.)

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However, Energy and Defense both argue that contractors must legally ensure compliance with all export control laws and regulations, particularly in areas affecting nuclear proliferation and nuclear weaponry. Otherwise, the agency has sufficient cause to deny automatic election of all patent and licensing rights. Rights to inventions would then be awarded to the contractor on a case-by-case basis.

2. Technology Transfer and Commercialization: National Laboratories are neither small businesses nor nonprofit organizations with entry into the commercial arena. If the object is commercialization of products and processes arising from Government-funded R&D, the private sector party collaborating with the laboratory should automatically be given all intellectual property subject to its efforts to commercialize these results. (Energy)

3. Federal Technology Transfer Policy: Senate bill 1480 is a step in the right direction. Some legislation is needed to bring the Department of Energy patent policy into conformity with that of other Federal agencies. Current practice of the agency does not go far enough in the area of technology transfer and patent policy to satisfy even Executive Order 12591. (Commerce, Treasury)

no need for response

Sec. 408: Technical Data or Computer Software and the Conditions of Ownership

Statement:

Technical Data and Software shall not be published and made available to the public by the agency when it has potential commercial value. It remains the property of the laboratory through the director of the laboratory.

The director of the laboratory shall determine if this material should be available to the public under Freedom of Information Act (FOIA) requests during the term of nondisclosure to the public.

Issues:

- Where*
1. Development of Data and Software by the National Laboratories: The Department of Energy (DOE) has a statutory requirement to disseminate the technical data and software developed under DOE funded research grants to the public and to U.S. industry. This information relates to and supports the authorized agency mission. Much of this information is developed specifically for application and utilization at DOE facilities other than the developing site.

Technical data and software of this kind must be available for the entire agency's use or the taxpayer will have to pay many times over for the same information and capabilities. The role and function of DOE's GO/CO's is at issue here.
(Energy)

2. FOIA exemptions: This legislation would vest the director of a National Laboratory, a private citizen, with the discretion to determine what is and what is not material subject to FOIA regulations. Again, the role and function of DOE's GO/CO's is at issue. (Energy)

3. Larger Issues: This legislation contains a very broad definition of technical data

- the term "technical data" means recorded information of a scientific or technical nature regardless of form or the media on which it may be recorded.

discretion

This definition would stop the publication or dilute the content of most scientific articles published by employees of DOE laboratories. The use of this definition would seriously alter the currently existing relationship between the Department of Energy and its National Laboratory contractors. Current practice consists of sole-sourcing to these laboratories broadly defined, non-goal oriented research contracts to carry out Congressionally-mandated directives. This

practice relies on the implicit assumption that the single function of these laboratories is to conduct research with a long-term payoff that has no immediate application in any identifiable arena including the commercial sector.

To set the laboratories up as property holders with vested interests in commercial enterprises is to change radically their nature and function. Today they are entities that carry out important research tasks that private research establishments find to be too basic or too long-range to engage their interest. The product of research at DOE has been publishable results. The purpose in generating technical data has been to make the results generally available to the public. The real issue to be discussed relative to this provision and the more general intellectual property provision is the role of DOE GO/CO laboratories in the implementation of national science policy. (OMB, Energy)

Sec. 409-411: Intellectual Property Contract Provisions, Special Rule for Waiver of Government License Rights, March-in Rights

Statement:

The management of all intellectual property rights developed within a laboratory shall be the responsibility of the director. All royalties or income from it will be used as specified in the Federal Technology Transfer Act of 1986.

All costs of obtaining and protecting intellectual property rights owned by the National Laboratory shall be paid for by the Department when not offset by income earned from licensing of laboratory-owned intellectual property rights.

Unless the contractor operates the laboratory for no profit or fee beyond expenses or allows all income earned from laboratory intellectual property to revert to the laboratory, the contractor shall pay to the U.S. Government reasonable compensation based on the value of the technology transferred.

When intellectual property rights are licensed by the laboratory to third parties, standard march-in rights are available to the agency to ensure that the technology is commercialized.

Issues:

1. For cooperative ventures: The collaborating industrial party has a direct interest and investment in the research as well as the capability to commercialize the technology. Thus, the most efficient transfer into the private sector will be realized by automatically giving all rights and income earning property to the commercial firm. (Energy)
2. Conflict of Interest Policies: Contractors of the Department of Energy are private sector entities. All provisions of the contracts between the Department and the contractor must be negotiated. Should the contractor (or equally the laboratory director) be given the blanket authorities suggested in the legislation, it is necessary that conflict of interest provisions governing technology transfer activities be statutorily mandated. Without that mandate such contract provisions, protecting both the contractor and the public, would be almost impossible to negotiate. (Energy, OMB)
3. Costs Borne by the Government: Patent litigation can be enormously expensive. It is totally unwise to adopt a policy in which the Department of Energy agrees to indemnify its contractors against such litigation. The Government would then be involved in support of a contractor's position with

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regard to property over which the Government has no management control.

It is also an unwarranted subsidy to have the Federal Government pay all costs for private sector licensing agreements. There is no reason to adopt such a policy simply because the private sector party in this instance is a National Laboratory management contractor or its laboratory director.
(Energy, OMB)

Attachment B

**DOE Management and Operating Contractors
(from a proposed Class Patent Rule)**

NOT true

Regarding GOCO contractors, the Department of Energy (DOE), unlike most other Government agencies, employs contractors to manage and operate certain of its major research, production and weapons facilities. The following principles, as set forth by the Secretary of Energy, provide the policy framework for these management and operating (GOCO) contracts:

- (1) The Government retains responsibility for overall program management and project technical direction while the contractor is responsible for the day-to-day management of the work;
- (2) The Government and contractor have an identity of interest in the mission being pursued;
- (3) The parties intend a long-term close relationship;
- (4) The Government assumes virtually all financial risk;
- (5) The contractor is hired to manage;
- (6) The contractor broadly supports the performance of Government functions by executing programs of national significance on behalf of the Government; and
- (7) The Government ultimately is responsible for security, health and safety and the proper use of public funds.

These contractor-operated Government facilities have for some forty years benefited DOE and its predecessor agencies in carrying out agency research, development, and demonstration (R,D&D) programs. The GOCO facilities have, in great measure, had a remarkable record of scientific and technical success. This success is due, in part, to the unique contractual relationship that exists between DOE and its GOCOS; viz., the dedication of both technical and administrative skills of a private organization to a significant Federal mission in a close, long-term, cooperative relationship.

Doesn't take into consideration the scientific nature of investment