

of 2 solar thermal electric plants based on different concepts -- distributed collector and central receiver systems. Participating countries: Austria, Belgium, Germany, Italy, Spain, Sweden, Switzerland, and the United States. Funding not specified.

COUNTRY: Multilateral

AGENCY: DOE

SUBJECT: Energy

EIF DATE: 02/18/81

TERM DATE:

REMARKS: OECD (IEA) program of RD&D on energy conservation in the pulp and paper industry. Participating countries: Belgium, Canada, Finland, Japan, the Netherlands, New Zealand, Norway, Spain, Sweden, United Kingdom, and the United States. Indefinite termination date; it continues in force unless the Executive Committee terminates it. Funding not specified.

COUNTRY: Multilateral

AGENCY: DOE

SUBJECT: Energy (Fusion)

EIF DATE: 04/02/90

TERM DATE: 04/02/00

REMARKS: OECD (IEA) R&D program on reversed field pinches. Participants: EURATOM, Japan, and the United States. Funding not specified.

COUNTRY: Multilateral

AGENCY: DOE

SUBJECT: Energy (Nuclear)

EIF DATE: 02/11/77

TERM DATE: 02/11/92

REMARKS: Originally an agreement with only Germany, but the BMFT confirms it is now multilateral. Renewal pending IPR renegotiations. Development of gas-cooled reactors: possible use as high temperature gas-cooled reactors for steam cycle, direct cycle or process heat, or as gas-cooled fast breeder reactors. DOE Record No. 27. Funding not specified.

COUNTRY: Multilateral

AGENCY: DOE

SUBJECT: Energy (Renewable)

EIF DATE: 12/31/84

TERM DATE: 12/31/91

REMARKS: OECD (IEA) program on alcohol and alcohol blends as motor fuel. Participating countries: Canada, Finland, Italy, Japan, New Zealand, Sweden, and the United States. Funding not specified.

COUNTRY: Multilateral
AGENCY: DOE
SUBJECT: Energy
EIF DATE: 12/31/79 TERM DATE: 12/31/91
REMARKS: OECD (IEA) RD&D program on enhanced recovery of oil, including oil shale. Participating countries: Australia, Austria, Canada, Denmark, Egypt, France, Germany, Japan, Norway, United Kingdom, and the United States. Funding not specified.

COUNTRY: Multilateral
AGENCY: DOE
SUBJECT: Energy
EIF DATE: 03/31/77 TERM DATE: 12/31/92
REMARKS: OECD (IEA) R&D Program on energy conservation in buildings and community systems. Participating countries: Australia, Belgium, Canada, Denmark, Finland, Germany, Greece, Italy, Japan, the Netherlands, New Zealand, Norway, Sweden, Switzerland, Turkey, United Kingdom, and the United States. Funding not specified.

COUNTRY: Multilateral
AGENCY: DOE
SUBJECT: Energy (Fusion)
EIF DATE: 12/31/77 TERM DATE: 12/31/92
REMARKS: OECD (IEA) R&D program on plasma wall interaction in textor. Participating countries/international organization: Canada, EEC, Japan, Switzerland, Turkey, and the United States. Negotiations are underway for extension. Funding not specified.

COUNTRY: Multilateral
AGENCY: DOE
SUBJECT: Energy
EIF DATE: 10/21/80 TERM DATE:
REMARKS: OECD (IEA) R&D program on radiation damage in fusion materials. Participants: Canada, EEC, Japan, Switzerland, and the United States. Indefinite termination date; it continues in force unless the Executive Committee terminates it. Funding not specified.

COUNTRY: Multilateral
AGENCY: DOE
SUBJECT: Energy
EIF DATE: 12/31/84 TERM DATE: 12/31/87
REMARKS: OECD (IEA) establishment of biomass conversion technical information service. Indefinite termination date; continues in force unless the Executive Committee terminates it. Participants: Austria, Belgium, Canada, EEC, Finland, Germany,

Ireland, Italy, Japan, New Zealand, Norway, Portugal, Sweden, Switzerland, United Kingdom, and the United States. Funding not specified.

COUNTRY: Multilateral

AGENCY: DOE

SUBJECT: Energy

EIF DATE: 12/31/79

TERM DATE: 12/31/93

REMARKS: OECD (IEA) R&D cooperation on wind turbine systems. Activities include recommended practices, conversion systems R&D, evaluation of numerical models, and assessment of integrating wind power into national electrical systems. Participating countries: Austria, Canada, Denmark, Germany, Ireland, Italy, Japan, the Netherlands, New Zealand, Norway, Spain, Sweden, Switzerland, United Kingdom, and the United States. On 01/91 implementing agreement for cooperation in the development of large scale wind energy conversion systems has merged into this agreement. Funding not specified.

COUNTRY: Multilateral

AGENCY: DOE

SUBJECT: Energy

EIF DATE: 12/31/82

TERM DATE: 12/31/91

REMARKS: OECD (IEA) RD&D program on coal/oil mixtures. Participating countries: Canada, Japan, the Netherlands, Spain, Sweden, United Kingdom, and the United States. Funding not specified.

COUNTRY: Multilateral

AGENCY: DOE

SUBJECT: Energy

EIF DATE: 07/27/78

TERM DATE: 07/27/80

REMARKS: OECD (IEA) R&D information exchange on advance heat pump systems. Participants: Austria, Belgium, Canada, Denmark, Finland, France, Germany, Italy, Japan, the Netherlands, Norway, Sweden, Spain, Switzerland, United Kingdom, and the United States. Indefinite termination date; continues in force unless the Executive Committee terminates it. Funding not specified.

COUNTRY: Multilateral

AGENCY: DOE

SUBJECT: Energy

EIF DATE: 12/31/78

TERM DATE: 12/31/91

REMARKS: OECD (IEA) R&D program on energy conservation through energy storage. Participating countries/organizations: Belgium, Canada, EEC, Denmark, Finland, Germany, Italy, the Netherlands, Sweden, Switzerland, and the United States. Funding not specified.

COUNTRY: Multilateral
AGENCY: DOE
SUBJECT: Energy
EIF DATE: 02/01/90 TERM DATE: 02/01/95
REMARKS: Bilateral umbrella energy research agreement was renewed for 5 years. Discussions continued through 1990 to develop arrangements for the transport to Japan of the plutonium recovered from reprocessing in the UK and France. Funding not specified.

COUNTRY: Multilateral
AGENCY: DOE
SUBJECT: Energy (Fusion)
EIF DATE: 01/31/86 TERM DATE: 01/14/91
REMARKS: OECD (IEA) program for cooperation among the 3 large tokamak facilities (JET, JT-60, and TFTR), located in the United Kingdom, Germany, and the United States. Participants: EURATOM, the JET Joint Undertaking, Japan, and the United States. Provisions of the Agreement allow for its extension by the contracting parties. Funding not specified.

COUNTRY: Multilateral
AGENCY: DOE
SUBJECT: Energy
EIF DATE: 06/28/77 TERM DATE: 03/07/91
REMARKS: OECD (IEA) R&D program on energy conservation in heat transfer and heat exchangers. Participants: Germany, the Netherlands, Norway, Sweden, Switzerland, United Kingdom, and the United States. Indefinite termination date; continues in force until the Executive Committee terminates it. Funding not specified.

COUNTRY: Multilateral
AGENCY: DOE
SUBJECT: Energy
EIF DATE: 06/21/90 TERM DATE: 06/21/95
REMARKS: OECD (IEA) program for assessment of impacts of high temperature superconductivity on the electric power sector. Participating countries: Canada, Denmark, Finland, Germany, Italy, Japan, the Netherlands, Norway, Sweden, Switzerland, Turkey, United Kingdom, Northern Ireland, and the United States. Funding not specified.

COUNTRY: Multilateral
AGENCY: DOE
SUBJECT: Energy
EIF DATE: TERM DATE: 03/25/94
REMARKS: OECD (IEA) RD&D program on coal combustion sciences. Participating countries: Australia, Canada, Denmark, Finland,

Germany, Italy, Sweden, the Netherlands, United Kingdom, and the United States. Funding not specified.

COUNTRY: Multilateral

AGENCY: DOE

SUBJECT: Energy

EIF DATE: 12/31/80

TERM DATE: 12/31/92

REMARKS: OECD (IEA) program for energy technology systems analysis. Participating countries/international organization: Australia, Austria, Belgium, Canada, Denmark, EEC, Germany, Greece, Ireland, Italy, the Netherlands, Norway, Spain, Sweden, Switzerland, United Kingdom, Japan, and the United States. Funding not specified.

COUNTRY: Multilateral

AGENCY: DOE

SUBJECT: Energy

EIF DATE: 05/22/79

TERM DATE: 12/31/91

REMARKS: OECD (IEA) R&D program on high temperature materials for automotive engines. Participating countries: Germany, Japan, Sweden, and the United States. Funding not specified.

COUNTRY: Multilateral

AGENCY: DOE

SUBJECT: Energy (Nuclear)

EIF DATE: 09/18/85

TERM DATE: 09/18/95

REMARKS: OECD (NEA) S&T information exchange on nuclear installation decommissioning projects. Participating countries: Belgium, Canada, Germany, France, Italy, Japan, Spain, Sweden, United Kingdom, and the United States. Funding not specified.

COUNTRY: Multilateral

AGENCY: DOE

SUBJECT: Energy

EIF DATE: 12/31/75

TERM DATE:

REMARKS: Termination date: Indefinite. OECD (IEA) establishment of coal research service. Covers mining technology, clearinghouse, coal economic assessment and technical information, and world resources and reserves data. Participating countries/agencies: Australia, Austria, Belgium, Canada, Finland, Germany, Italy, the Netherlands, Spain, Sweden, United Kingdom, Denmark, Ireland, Japan, New Zealand, and the United States (DOI/USGS and BLM). This agreement incorporates 4 previous implementing agreements on: mining technology clearinghouse (DOI/BOM), coal economic assessment services (DOE), coal technical information services (DOI/USGS), and world coal resources and reserves data bank (DOI/USGS). Funding not specified.

COUNTRY: Multilateral
AGENCY: DOE
SUBJECT: Energy
EIF DATE: 06/21/84 TERM DATE: 06/21/87
REMARKS: OECD (IEA) establishment of energy technology data exchange. Participants: Canada, Denmark, Finland, France, Germany, Italy, Japan, the Netherlands, Norway, Spain, Sweden, Switzerland, United Kingdom, and the United States. Indefinite termination date; provisions provided for the agreement to be extended in writing by the Executive Committee acting by unanimity, and taking into account any recommendations of the IEA/CRD concerning the terms of the agreement. Funding not specified.

COUNTRY: Multilateral
AGENCY: DOE
SUBJECT: Energy
EIF DATE: 03/17/88 TERM DATE: 03/17/93
REMARKS: Establishing IEA (OECD) Information Center for the Analysis and Dissemination of Demonstrated Energy Technologies (CADDET). Participating countries: Australia, Canada, Denmark, Finland, Italy, Japan, the Netherlands, New Zealand, Norway, Sweden, Switzerland, United Kingdom, and the United States. Funding not specified.

COUNTRY: Multilateral
AGENCY: DOI (FWS)
SUBJECT: Natural Resources
EIF DATE: 04/30/42 TERM DATE:
REMARKS: On-going. Institution building and training in Western hemisphere countries; grants and projects in support of regional capabilities for managing wildlife, environmental education, graduate program development; technical information data centers. Funding not specified.

COUNTRY: Multilateral
AGENCY: DOI (FWS)
SUBJECT: Natural Resources
EIF DATE: 01/01/87 TERM DATE:
REMARKS: On-going. Training and research in 8 Asian countries; 8 grants in support of biological diversity; USAID funding at \$260,000.

COUNTRY: Multilateral
AGENCY: DOI (FWS)
SUBJECT: Natural Resources
EIF DATE: 01/01/87 TERM DATE:
REMARKS: On-going. Training and research in 13 Near East

countries; 12 grants in support of biological diversity; USAID funding at \$186,000.

COUNTRY: Multilateral
AGENCY: DOI (NPS)
SUBJECT: Natural Resources
EIF DATE: 02/05/67 TERM DATE: 09/30/91
REMARKS: Technical assistance; national park development; participants include African countries. Funding varies with negotiated activities.

COUNTRY: Multilateral
AGENCY: DOI (NPS)
SUBJECT: Natural Resources
EIF DATE: 06/21/84 TERM DATE: 05/31/94
REMARKS: Policy coordination; World Heritage Site nomination; cultural resource cooperation with ICOMOS; participation with World Heritage Convention countries in cooperative programs of site assistance and staff training. Funding of approximately \$100,000 annually.

COUNTRY: Multilateral
AGENCY: DOI (NPS)
SUBJECT: Natural Resources
EIF DATE: 09/22/86 TERM DATE: 09/22/96
REMARKS: Training; Peace Corps volunteer training in national parks and conservation; participants include Malawi, Morocco and Sierre Leone; other U.S. government funding of \$18,000.

COUNTRY: Multilateral
AGENCY: DOI (NPS)
SUBJECT: Natural Resources
EIF DATE: 10/12/40 TERM DATE:
REMARKS: Ongoing. Western Hemisphere Convention 1/18/90 S.P.A.W. Protocol. Technical assistance; Participants include Argentina, Barbados, Bermuda, Brazil, British Virgin Islands, Chile, Colombia, Costa Rica, Grenada, Jamaica, Mexico, Panama, Peru, St. Vincent & Grenadines. Funding not specified.

COUNTRY: Multilateral
AGENCY: DOI (NPS)
SUBJECT: Natural Resources
EIF DATE: 03/24/83 TERM DATE:
REMARKS: Technical participation in development of specially protected areas and wildlife (SPAW Protocol) for the wider Caribbean. Cartagena Convention Framework. Termination date: Indefinite. Funding not specified.

COUNTRY: Multilateral
AGENCY: DOI (USGS)
SUBJECT: Earth Sciences
EIF DATE: 08/01/86 TERM DATE: 12/31/91
REMARKS: Interagency Volcano Early Warning Disaster Assistance
Program provides emergency response to volcano crises. USAID
funding: \$138,000.

COUNTRY: Multilateral
AGENCY: DOI (USGS)
SUBJECT: Earth Sciences
EIF DATE: 12/31/87 TERM DATE: 12/31/91
REMARKS: Geothermal resources assessment of Central America.
USAID funding: \$82,800.

COUNTRY: Multilateral
AGENCY: DOI (USGS)
SUBJECT: Earth Sciences
EIF DATE: 01/01/72 TERM DATE:
REMARKS: Antarctic glaciological studies, seismology and
ultra-long period gravity investigations; data telecommunications
at the South Pole. Funding: USGS \$16,000, 3.2 FTE; Outside
support \$16,000.

COUNTRY: Multilateral
AGENCY: DOI (USGS)
SUBJECT: Earth Sciences
EIF DATE: 01/01/86 TERM DATE:
REMARKS: Advisory consultations to intergovernmental geoscience
bodies in eastern Asia, particularly in resource assessment
methodologies; preparation of regional base maps at
1:2,000,000-scale; about \$5,000 in travel funds from the U.S.
Department of State.

COUNTRY: Multilateral
AGENCY: DOI (USGS)
SUBJECT: Earth Sciences
EIF DATE: 10/01/89 TERM DATE: 04/30/93
REMARKS: Worldwide earthquake risk management program: Pilot
program in Morocco, Chile and Indonesia. USAID funding: \$7,000.

COUNTRY: Multilateral
AGENCY: DOI (USGS)
SUBJECT: Earth Sciences
EIF DATE: 04/01/88 TERM DATE: 09/30/91
REMARKS: Remote sensing and information systems for research and
monitoring of Sahelian Africa for meteorology, hydrology, and
agriculture in 8 African countries. USAID funding:
\$1,700,000.

COUNTRY: Multilateral
AGENCY: DOI (USGS)
SUBJECT: Earth Sciences
EIF DATE: 01/01/88 TERM DATE:
REMARKS: International Strategic Minerals Inventory: Global
Inventory of Strategic Commodities including cobalt, nickel,
platinum and titanium. Participants are from Australia, Canada,
South Africa, United Kingdom, and West Germany. Funding not
specified.

COUNTRY: Multilateral
AGENCY: DOI (USGS)
SUBJECT: Earth Sciences
EIF DATE: 01/01/80 TERM DATE:
REMARKS: Continuing agreement. USGS-Air Force Technical
Applications Center Program of seismic data collection in New
Zealand, Africa and South America. Funding: AFTAC \$75,000,
4mm.

COUNTRY: Multilateral
AGENCY: DOI (USGS)
SUBJECT: Earth Sciences
EIF DATE: 05/30/90 TERM DATE: 05/30/92
REMARKS: Training in investigation of gold-silver deposits in
Bolivia, Chile, Peru. IDB Funding:
\$375,000.

COUNTRY: Multilateral
AGENCY: DOI (USGS)
SUBJECT: Earth Sciences
EIF DATE: 04/01/87 TERM DATE: 09/30/91
REMARKS: Time series monitoring of vegetation conditions of
locust habitat in 8 African countries and Saudi Arabia. USAID
funding of \$200,000, 2.0 FTE.

COUNTRY: Multilateral
AGENCY: DOT
SUBJECT: Transportation
EIF DATE: TERM DATE:
REMARKS: Federal Highway Administration (FHWA) participates in
highway projects and technical database coordination. Funding
not specified.

COUNTRY: Multilateral
AGENCY: DOT
SUBJECT: Transportation
EIF DATE: TERM DATE:
REMARKS: UN Economic Commission for Europe (ECE): Inland
Transport Committee Groups of Experts on Construction of Vehicles
(WP 29) & Road Safety (GE 20); Combined Transport (GE 24);
Transport of Dangerous Goods (GE 15); Funding not
specified.

COUNTRY: Multilateral
AGENCY: DOT
SUBJECT: Transportation
EIF DATE: 01/01/70 TERM DATE:
REMARKS: Ongoing agreement. EUROCONTROL Group: Federal
Aviation Administration (FAA) participates in civil aviation,
management information exchanges on air navigation. Funding not
specified.

COUNTRY: Multilateral
AGENCY: DOT
SUBJECT: Transportation
EIF DATE: TERM DATE:
REMARKS: Ongoing. United Nations International Civil Aviation
Organization (ICAO); FAA participates in triennial Assembly
Meetings; 9 Regional and various regional study groups; 2
technical committees; 14 Panels which have established 19 ad hoc
study groups. Concerns science and technology and operational
functions. Funding not specified.

COUNTRY: Multilateral
AGENCY: DOT
SUBJECT: Transportation
EIF DATE: TERM DATE:
REMARKS: USCG and MARAD participate in technology & policy
sharing with the Permanent International Association of
Navigational Congresses (PIANC). Funding provided by the Army
Corps of Engineers.

COUNTRY: Multilateral
AGENCY: DOT
SUBJECT: Transportation
EIF DATE: TERM DATE:
REMARKS: United Nations Economic & Social Council: Committee of
Experts on Transport of Dangerous Goods. Research and Special
Program Administration (RSPA) participates in Committee. Funding
not specified.

COUNTRY: Multilateral
AGENCY: DOT
SUBJECT: Transportation
EIF DATE: TERM DATE:
REMARKS: USCG continues active participation in UN's International Maritime Organization (IMO), representing U.S. in meetings of UNGA, Maritime Safety Committee (MSC), Marine Environment Protection Committee (MEPC), Legal Committee, the Technical Committee and associated subcommittees. Funding not specified.

COUNTRY: Multilateral
AGENCY: DOT
SUBJECT: Transportation
EIF DATE: TERM DATE:
REMARKS: Federal Railroad Administration (FRA) participates in the Pan American Railway Congress Association (PARCA) and meets triannually to discuss railroad issues in the western hemisphere. Funding not specified.

COUNTRY: Multilateral
AGENCY: DOT
SUBJECT: Transportation
EIF DATE: TERM DATE:
REMARKS: Maritime Administration (MARAD) represented the United States at the conference on International Cooperation on Marine Engineering Systems (ICMES). Conference held every three years with representatives from 23 countries. Vessel information was exchanged on reliability, safety, maintenance, manpower, and energy savings system. Funding not specified.

COUNTRY: Multilateral
AGENCY: DOT
SUBJECT: Transportation
EIF DATE: TERM DATE:
REMARKS: Maritime Administration (MARAD) participates in Inter-American Port & Harbor Conferences. Agreement between DOT and OAS. Funding not specified.

COUNTRY: Multilateral
AGENCY: DOT
SUBJECT: Transportation
EIF DATE: TERM DATE:
REMARKS: Organization for Economic Cooperation & Development (OECD); DOT represented on Road Transport Research Program Steering Committee and active in selected research studies. Funding not specified.

COUNTRY: Multilateral
AGENCY: DOT
SUBJECT: Transportation
EIF DATE: TERM DATE:
REMARKS: Ongoing. United Nations International Atomic Energy Agency (IAEA): Standing Advisory Group on Safe Transport of Radioactive Material. Funding not specified.

COUNTRY: Multilateral
AGENCY: DOT
SUBJECT: Transportation
EIF DATE: TERM DATE:
REMARKS: Permanent International Association of Road Congresses (PIARC) & Federal Highway Administration participated in the 19th World Road Congress held in Marrakesh which considered road policies, safety, environmental impact, management, operations, construction and maintenance. Funding by members' countries.

COUNTRY: Multilateral
AGENCY: DOT
SUBJECT: Transportation
EIF DATE: TERM DATE:
REMARKS: International Union of Railways (UIC); info exchanges; committee projects on rail research; annual membership dues of \$40,000 and \$6000 travel expenses. Federal Railroad Administration (FRA) participates on Committee of 173 to solve common railway problems and study rail contact fatigue. Funding not specified.

COUNTRY: Multilateral
AGENCY: DOT
SUBJECT: Transportation
EIF DATE: TERM DATE:
REMARKS: Pan American Highway Congress - Federal Highway Administration (FHWA) participates in Pan American Institute of Highways; training and technology transfer for highway construction to member countries. Funded by Pan American Highway Congress and member countries.

COUNTRY: Multilateral
AGENCY: DOT
SUBJECT: Transportation
EIF DATE: TERM DATE:
REMARKS: European Conference of Ministers of Transport (ECMT); various technical subjects; high-level policy discussions in Council Sessions. Funding not specified.

COUNTRY: Multilateral
AGENCY: HHS
SUBJECT: Biomedical Sciences
EIF DATE: 01/01/84 TERM DATE: 09/01/91
REMARKS: International collaborative effort on Perinatal and Infant Mortality with Denmark, FRG, Israel, Japan, Norway, Sweden and the U.K. by the National Center for Health Statistics/CDC. Funding not specified.

COUNTRY: Multilateral
AGENCY: HHS
SUBJECT: Biomedical Sciences
EIF DATE: 03/01/79 TERM DATE: 09/07/93
REMARKS: Child survival and combatting childhood communicable diseases; Centers for Disease Control program of training and logistics planning for advancement of childhood immunization programs in 21 countries. Funding not specified.

COUNTRY: Multilateral (ESA)
AGENCY: NASA
SUBJECT: STSP (Space Physics)
EIF DATE: 11/30/89 TERM DATE:
REMARKS: MOU concerning Solar Terrestrial Research Programme; to be extended by mutual agreement. Funding: NASA programmatic.

COUNTRY: Multilateral (ESA)
AGENCY: NASA
SUBJECT: Space
EIF DATE: 09/29/88 TERM DATE:
REMARKS: MOU between ESA, NASA, Canada, Japan on Cooperation in the detailed design, development and operation and utilization of the permanently manned Civil Space Station. Total Funding: \$7.0 billion for all partners; ESA hardware accounting for \$4 billion.

COUNTRY: Multilateral (ESA)
AGENCY: NASA
SUBJECT: Spacelab
EIF DATE: 01/01/73 TERM DATE: 11/28/91
REMARKS: Procurement and use of a space laboratory in conjunction with the Space Shuttle system. Signed in 1973, Department of State has confirmation records. MOU funded; NASA programmatic.

COUNTRY: Multilateral (ESA)
AGENCY: NASA
SUBJECT: Space
EIF DATE: 12/17/90 TERM DATE:
REMARKS: Agreement between NASA and ESA for NASA Saturn Orbiter and ESA Huygens Probe for planned launch in 1996; MOU terminates 12 years after launch. Funding through respective governments.

COUNTRY: Multilateral (ESA)
AGENCY: NASA
SUBJECT: IUE (Astronomy)
EIF DATE: 03/21/74 TERM DATE:
REMARKS: MOU between ESA and NASA on International Ultraviolet Explorer space astronomy mission. Expiration is indefinite or until terminated with 180 days' notice. Funding: NASA programmatic.

COUNTRY: Multilateral (ESA)
AGENCY: NASA
SUBJECT: Space
EIF DATE: 03/29/79 TERM DATE: 10/06/95
REMARKS: Ulysses; MOU on cooperative mission to study the poles of the sun between ESA and NASA. Formerly called the International Solar Polar Mission. Expires 5 years after launch (10/06/90). Funding: NASA programmatic.

COUNTRY: Multilateral (ESA)
AGENCY: NASA
SUBJECT: Space
EIF DATE: 01/14/86 TERM DATE:
REMARKS: Agreement for tracking and data reception for the ESA Earth Remote Sensing Satellite (ERS-1) at Fairbanks. Indefinite MOU in force through life of instruments. Renewable for 3 years extension through exchange of letters. Funding: NASA programmatic.

COUNTRY: Multilateral (ESA)
AGENCY: NASA
SUBJECT: STSP (Space Physics)
EIF DATE: 03/17/75 TERM DATE:
REMARKS: International Sun/Earth Explorer program. MOU between ESA and NASA regarding solar terrestrial physics. Expiration is indefinite, as it will continue until terminated with 180 days notice. Funding: NASA programmatic.

COUNTRY: Multilateral (ESA)

AGENCY: NASA

SUBJECT: Space

EIF DATE: 10/07/77

TERM DATE: 04/24/2001

REMARKS: Cooperative participation in the development and use of the Hubble Space Telescope. MOU between ESA and NASA to expire 11 years after launch (4/24/90). Renewal requires consultation one year prior to expiration. Funding: NASA programmatic.

COUNTRY: Multilateral

AGENCY: NRC

SUBJECT: Nuclear Safety

EIF DATE: 03/19/79

TERM DATE:

REMARKS: EURATOM; nuclear safety research. Extension under renegotiation. Funding not specified.

THE NETHERLANDS

COUNTRY: Netherlands
AGENCY: DOD
SUBJECT: Technical R&D
EIF DATE: 06/19/87 TERM DATE:
REMARKS: Cooperative R&D agreement of unspecified termination date. Hawk Mobility Enhancement (HME) developing a new manipulator for transferring missiles to the launcher and increasing transport capabilities. Funded with Nunn Amendment.

COUNTRY: Netherlands
AGENCY: DOT
SUBJECT: Transportation
EIF DATE: 09/28/77 TERM DATE:
REMARKS: Active ongoing program in all areas of transportation including transportation economics studies, highway traffic safety, civil aviation, urban systems, and marijuana smoking on actual driving performance using on-the-road driving situations in the Netherlands (under monitored conditions). Funding not specified.

COUNTRY: Netherlands
AGENCY: EPA
SUBJECT: Environment
EIF DATE: 06/17/85 TERM DATE:
REMARKS: Self-renewing(every 5 yrs.)MOU with Ministry of Housing, Physical Planning, & Environment; includes work on integrated planning, enforcement, air quality, economic incentives, water quality. EPA & Ministry co-sponsor symposium on air-related enforcement. Funds-NA.

COUNTRY: Netherlands
AGENCY: NRC
SUBJECT: Nuclear Safety
EIF DATE: 09/01/87 TERM DATE: 08/31/91
REMARKS: Nuclear Reactor Safety Research with ECN. Renewal under negotiation. Funding not specified.

COUNTRY: Netherlands
AGENCY: NRC
SUBJECT: Nuclear Safety
EIF DATE: 10/03/77 TERM DATE: 09/23/92
REMARKS: Information exchange and general technical cooperation with NMSAE. Funding not specified.

COUNTRY: Netherlands

AGENCY: USDA

SUBJECT: Agricultural Science

EIF DATE: 11/20/80

TERM DATE: 11/20/90

REMARKS: Term of original MOU expired, and it was agreed to continue exchange without formal renewal of MOU. Agricultural S&T; plant physiology, economic research; soil and water science; integrated pest management, etc. Funding not specified.

NEW ZEALAND

COUNTRY: New Zealand
AGENCY: DOI (USGS)
SUBJECT: Earth Sciences
EIF DATE: 06/23/86 TERM DATE:
REMARKS: Joint USGS-New Zealand project to do 1:50,000 scale mapping of regions of high scientific interest in McMurdo Sound area of Antarctica; funded by NSF at \$50,000. USGS completed its work on the first 5 sheets which were sent to New Zealand for compilation.

COUNTRY: New Zealand
AGENCY: DOI (USGS)
SUBJECT: Earth Sciences
EIF DATE: 01/14/90 TERM DATE: 10/13/91
REMARKS: Cooperation in structural geology and tectonics, petroleum, and geochemistry and geology with Victoria University. Funding of \$65,500 from Victoria University, and \$5,600 from USGS.

COUNTRY: New Zealand
AGENCY: NSF
SUBJECT: Basic Sciences
EIF DATE: 05/21/91 TERM DATE: 05/20/96
REMARKS: Signed on 05/21/91 to replace agreement of 02/01/74. Projects under S&T umbrella agreement: joint research; information and personnel exchanges; utilization of installation. NSF counterpart is Ministry of Science, Research and Technology (MORST). Funding not specified.

COUNTRY: New Zealand
AGENCY: US Gov
SUBJECT: S&T Umbrella
EIF DATE: 02/27/74 TERM DATE: 02/28/96
REMARKS: Agreement for scientific & technological cooperation; individual cooperating agencies negotiate funding with counterpart agencies. Renewed agreement includes IPR and security obligation provisions.

NORWAY

COUNTRY: Norway
AGENCY: DOD
SUBJECT: Technical R&D
EIF DATE: 03/01/91 TERM DATE:
REMARKS: Cooperative R&D agreement of unspecified termination date. To develop a Fiber-Optic Magnetic Sensor Array for surveillance systems. This project is for Anti-Submarine Warfare application. It is expected to last 3 years. Also referred to as the Magnetic Array Sensor (MARS) System (formally Fiber-Optic Magnetic Sensor Array.) Funded with Nunn Amendment.

COUNTRY: Norway
AGENCY: DOD
SUBJECT: Technical R&D
EIF DATE: 02/07/91 TERM DATE:
REMARKS: Cooperative R&D agreement with unspecified termination date. Conducting joint research and testing on protective aircraft shelters to develop explosive safety data for the establishment of Quantity-Distance (QD) criteria to increase shelter survivability. Funded with Nunn Amendment.

COUNTRY: Norway
AGENCY: DOE
SUBJECT: Energy (Fossil)
EIF DATE: 04/22/87 TERM DATE: 04/22/92
REMARKS: Establish an exchange of scientific and technical information regarding fossil energy R&D and conduct joint basic and/or applied fossil energy research projects. DOE Record No. 199. Funding not specified.

COUNTRY: Norway
AGENCY: DOI (USGS)
SUBJECT: Earth Sciences
EIF DATE: 02/04/88 TERM DATE: 02/04/93
REMARKS: Cooperation in developing methods for digital sonar image data with the Norwegian Institute of Technology. Funding not specified.

COUNTRY: Norway
AGENCY: DOI (USGS)
SUBJECT: Earth Sciences
EIF DATE: 10/12/89 TERM DATE: 10/12/94
REMARKS: Cooperation with Geological Survey of Norway. Marine
sediment transport studies; thermal history and structural
evolution. Funding: USGS \$20,700; University of Washington
\$27,000; Norway \$1,000.

COUNTRY: Norway
AGENCY: NASA
SUBJECT: Space
EIF DATE: 07/17/75 TERM DATE:
REMARKS: Agreement for sounding rocket launches from Andoya,
Norway. Funding not specified.

PAKISTAN

COUNTRY: Pakistan
AGENCY: DOC (NOAA)
SUBJECT: Space Technologies
EIF DATE: 11/26/84 TERM DATE: 07/31/92
REMARKS: Direct reception and distribution of Landsat data at Landsat ground station; extends through the life of Landsat-4 and Landsat-5. No U.S. funding.

COUNTRY: Pakistan
AGENCY: DOI (FWS)
SUBJECT: Natural Resources
EIF DATE: 01/01/78 TERM DATE: 12/01/92
REMARKS: Research in endangered species; training in wildlife management; conservation education. 1 of 3 Special Foreign Currency programs run by the FWS (Egypt, India) in which excess foreign currency is held by the FWS for use in conservation projects. Funding not specified.

COUNTRY: Pakistan
AGENCY: DOI (NPS)
SUBJECT: Natural Resources
EIF DATE: 09/30/86 TERM DATE: 11/02/93
REMARKS: Technical assistance and training; national/cultural heritage conservation and management technical assistance; operations are conducted under the auspices of the referenced agreement-there is no separate NPS agreement. Inactive but in force. Funding not specified.

COUNTRY: Pakistan
AGENCY: DOI (USGS)
SUBJECT: Earth Sciences
EIF DATE: 08/07/85 TERM DATE: 07/31/93
REMARKS: Coal resources exploration and assessment. AID funding: \$550,000.

COUNTRY: Pakistan
AGENCY: HHS
SUBJECT: Health Sciences
EIF DATE: 06/01/86 TERM DATE:
REMARKS: Science cooperation under US-Pakistan Subcommittee's S&T Agreement includes prevention of blindness, parasitic diseases, health stats, health services research, cancer, cardiovascular diseases, maternal and child health. Termination date: Indefinite. Funding not specified.

COUNTRY: Pakistan

AGENCY: US Gov

SUBJECT: S&T Umbrella

EIF DATE: 12/06/82

TERM DATE:

REMARKS: Agreement to establish a Joint Commission on Economic, Commercial, Scientific, Technological, Educational and Cultural Cooperation. S&T Subcommittee formed under authority of Joint Commission. Advisory body to coordinate S&T cooperation. Termination date: Indefinite. Funding not specified.

PARAGUAY

COUNTRY: Paraguay

AGENCY: DOI (USGS)

SUBJECT: Earth Sciences

EIF DATE: 10/17/88

TERM DATE: 08/24/92

REMARKS: Establish facilities to be incorporated into Global Seismograph Network. Funding not specified.

PERU

COUNTRY: Peru
AGENCY: DOI (USGS)
SUBJECT: Earth Sciences
EIF DATE: 07/19/90 TERM DATE:
REMARKS: Continuing MOU agreement. Scientific and technical cooperation in the earth and mapping sciences. No activity in FY91. Funding not specified.

COUNTRY: Peru
AGENCY: HHS
SUBJECT: Biomedical Sciences
EIF DATE: 01/01/88 TERM DATE:
REMARKS: Active indefinitely. CDC Field Epidemiology Training Program. Funding not specified.

THE PHILIPPINES

COUNTRY: Philippines
AGENCY: HHS
SUBJECT: Biomedical Sciences
EIF DATE: 06/01/87 TERM DATE:
REMARKS: Centers for Disease Control and Department of Health
program in field epidemiology training (USAID funded).
Termination date: Indefinite.

COUNTRY: Philippines
AGENCY: NRC
SUBJECT: Nuclear Safety
EIF DATE: 04/28/80 TERM DATE:
REMARKS: Information exchange and general technical cooperation
with AEC; Renewal being renegotiated. Funding not
specified.

COUNTRY: Philippines
AGENCY: USDA
SUBJECT: Agricultural Science
EIF DATE: 02/10/88 TERM DATE: 02/10/93
REMARKS: Agricultural S&T; cocoa production technology. Funding
not specified.

POLAND

COUNTRY: Poland
AGENCY: DOC (NIST)
SUBJECT: Basic & Applied Sci.
EIF DATE: 09/29/87 TERM DATE: 09/28/92
REMARKS: NIST is one of several U.S. technical agencies cooperating under U.S.-Polish agreement for S&T cooperation. The Maria Sklodowska-Curie Fund is established as the funding vehicle; 14 active programs in FY91.

COUNTRY: Poland
AGENCY: DOC (NOAA)
SUBJECT: Fisheries
EIF DATE: 02/28/77 TERM DATE: 12/01/93
REMARKS: Governing International Fishery Agreements established on a bilateral basis, conditions under which foreign fishing vessels are granted access to fishery resources within the U.S. Exclusive Economic Zone, including fees for processing permits and support for observer program.

COUNTRY: Poland
AGENCY: DOI (NPS)
SUBJECT: Natural Resources
EIF DATE: 09/01/87 TERM DATE: 09/01/92
REMARKS: Cooperation and exchange; natural and cultural heritage conservation and management; personnel; information exchange. Funding not specified.

COUNTRY: Poland
AGENCY: DOI (USGS)
SUBJECT: Earth Sciences
EIF DATE: 08/25/88 TERM DATE: 08/25/93
REMARKS: Projects on lignite formation; carbonatites & alkaline intrusions; prospecting for mineral deposits and geochemical prospecting. Funding: USGS \$41,700; Joint Commission \$30,000; USDA \$8,000.

COUNTRY: Poland
AGENCY: DOT
SUBJECT: Transportation
EIF DATE: 11/03/71 TERM DATE:
REMARKS: During 1991 the US provided \$49,000 in laboratory and computer equipment to Polish collaborators in ongoing research and development; also, \$24,000 was spent in support of 3 visiting

scientists during their summer visit to the Transportation Systems Center in Cambridge, MA. (in conjunction with Brown University.)

COUNTRY: Poland

AGENCY: EPA

SUBJECT: Environment

EIF DATE: 09/10/87

TERM DATE: 09/10/92

REMARKS: EPA and Ministry of Environment agreement on research, demonstration projects and workshops on environmental policy and management, water quality modeling, hazardous waste management, radionuclide migration in food chain, wastewater and air pollution work. Funding not specified.

COUNTRY: Poland

AGENCY: HHS

SUBJECT: Biomedical Science

EIF DATE: 10/08/76

TERM DATE: 10/08/92

REMARKS: Renewed date: 10/08/87. Agreement between National Cancer Institute and Polish National Institute of Oncology. Epidemiological, basic, and clinical investigations in the field of cancer. Funding not specified.

COUNTRY: Poland

AGENCY: HHS

SUBJECT: Biomedical Sciences

EIF DATE: 10/01/84

TERM DATE:

REMARKS: Term date: Indefinite. Agreement between HHS and Polish Ministry of Health and Social Welfare; cooperation on mental health and alcohol-related health problems (FDA has two projects on-going); cardiovascular and pulmonary diseases, individual health scientist exchanges, cancer research, mental health, and Child health. Funding not specified.

COUNTRY: Poland

AGENCY: NSF

SUBJECT: Basic Sciences

EIF DATE: 06/13/88

TERM DATE: 06/13/93

REMARKS: MOU under the 1987 S&T umbrella agreement provides for joint research projects, seminars and workshops, and short-term project development visits. Funding not specified.

COUNTRY: Poland

AGENCY: US Gov

SUBJECT: S&T Umbrella

EIF DATE: 09/28/87

TERM DATE: 09/28/92

REMARKS: Agreement established a joint commission and a joint fund with contributions from both sides after lapse of an earlier

agreement signed in 1972; extensive language on protection of intellectual property. Participating agencies: NOAA, DOI, DOE, EPA, and HHS. Funding: U.S. contributions are matched in equivalent Polish currency.

PORTUGAL

COUNTRY: Portugal

AGENCY: DOI (USGS)

SUBJECT: Earth Sciences

EIF DATE: 05/18/87

TERM DATE: 05/17/92

REMARKS: Geologic and geothermal studies. Iberian pyrite belt.

Funding: USGS \$5,000; Portugal \$4,500.

REGIONAL

COUNTRY: Regional (Africa)
AGENCY: DOT
SUBJECT: Transportation
EIF DATE: TERM DATE:
REMARKS: DOT economists prepared an interim evaluation of USAID/Harare Transportation Sector Technical Assistance Grant; participated in the UNDP evaluation mission for the Transit Sector in Southern Africa Project; and participated in the Southern Africa Transportation Investment Priority Assessment (STIPA) for USAID Harare. Funding not specified.

COUNTRY: Regional (Africa)
AGENCY: DOT
SUBJECT: Transportation
EIF DATE: TERM DATE:
REMARKS: Ongoing. Civil aviation technical assistance in Cape Verde, Egypt, Liberia, and Morocco. Funding not specified.

COUNTRY: Regional (Asia)
AGENCY: DOT
SUBJECT: Transportation
EIF DATE: TERM DATE:
REMARKS: Ongoing. Highway technical assistance in Kuwait and Turkey. Funding not specified.

COUNTRY: Regional (Asia)
AGENCY: DOT
SUBJECT: Transportation
EIF DATE: TERM DATE:
REMARKS: Civil aviation tech assistance in Australia, Burma, Brunei, China, Hong Kong, ICAO, India, Indonesia, Israel, Japan, Jordan, Korea, Malaysia, Marshall Islands, The Maldives, Micronesia, Nepal, New Zealand, Oman, Pakistan, Palau, The Phillipines, etc. Funding not specified.

COUNTRY: Regional (Asia)
AGENCY: DOT
SUBJECT: Transportation
EIF DATE: TERM DATE:
REMARKS: Ongoing. Technical assistance to Saudi Arabia on transport system infrastructure establishment and training. Funding not specified.

COUNTRY: Regional (Europe)
AGENCY: DOT
SUBJECT: Transportation
EIF DATE: TERM DATE:
REMARKS: DOT participates on various committees of the UN Economic Commission for Europe (ECE): Committee on the Development of Trade; Working Party on Facilitation of International Trade Procedures (WP4); Electronic Data Interchange for Administration Commerce and Transportation (UN/EDIFACT). Funding not specified.

COUNTRY: Regional (Oceania)
AGENCY: DOT
SUBJECT: Transportation
EIF DATE: TERM DATE:
REMARKS: Ongoing. Highway technical assistance in Indonesia. Funding not specified.

COUNTRY: Regional (S America)
AGENCY: DOT
SUBJECT: Transportation
EIF DATE: TERM DATE:
REMARKS: Ongoing. Civil aviation technical assistance in Argentina, Bolivia, Brazil, Chile, Colombia, Ecuador, Peru, Surinam, Uruguay, and Venezuela. Funding not specified.

COUNTRY: Regional (S Pacific)
AGENCY: DOT
SUBJECT: Transportation
EIF DATE: TERM DATE:
REMARKS: USCG participates in the South Pacific Regional Environmental Protection Program (SPREP) which deals with ocean pollution from all sources, scientific and technical cooperation, environmental impact assessment, and an international oil pollution contingency plan. Funding not specified.

COUNTRY: Regional (W Hemis)
AGENCY: DOT
SUBJECT: Transportation
EIF DATE: TERM DATE:
REMARKS: On-going civil aviation technical assistance in Barbados, Bahamas, Canada, Cayman Islands, COCESNA, Dominican Republic, Grenada, Guyana, Haiti, Iceland, Jamaica, Mexico, Netherlands Antilles, Organization of Eastern Caribbean States, Panama, Trinidad and Tobago. Funding not specified.

COUNTRY: Regional (W Hemis)
AGENCY: DOT
SUBJECT: Transportation
EIF DATE: TERM DATE:
REMARKS: Ongoing. Highway technical assistance in Barbados and
Costa Rica. Funding not specified.

COUNTRY: Regional
AGENCY: HHS
SUBJECT: Biomedical Science
EIF DATE: 10/26/77 TERM DATE:
REMARKS: Termination date: Indefinite. NIH/National Library of
Medicine MEDLARS Agreement for interlibrary exchanges. Funding
not specified.

ROMANIA

COUNTRY: Romania
AGENCY: HHS
SUBJECT: Biomedical Sciences
EIF DATE: 12/13/74 TERM DATE:
REMARKS: US-Romania cooperation and individual health scientist
exchanges; renewable every two years. Funding not
specified.

COUNTRY: Romania
AGENCY: NSF
SUBJECT: Basic Sciences
EIF DATE: 02/27/79 TERM DATE: 02/27/88
REMARKS: Joint workshops & seminars; short-term project
development visits; joint research. Renewal pending. Funding
not specified.

SAUDI ARABIA

COUNTRY: Saudi Arabia
AGENCY: DOC (NOAA)
SUBJECT: Atmospheric Sciences
EIF DATE: 02/13/75 TERM DATE: 09/25/95
REMARKS: Technical Cooperation Agreement; cooperation in
integrating Saudi meteorological services and supporting research
programs. Funds not specified.

COUNTRY: Saudi Arabia
AGENCY: DOC (NOAA)
SUBJECT: Space Technologies
EIF DATE: 09/25/84 TERM DATE:
REMARKS: Direct reception and distribution of Landsat data at
Landsat ground station; extends through the life of Landsat-4 and
Landsat-5. No U.S. funding.

COUNTRY: Saudi Arabia
AGENCY: DOE
SUBJECT: Energy (Renewable)
EIF DATE: 02/04/87 TERM DATE: 02/04/92
REMARKS: Finding solutions to mutually agreed on problems in
renewable energy R&D. DOE Record No. 197. Funding not
specified.

COUNTRY: Saudi Arabia
AGENCY: DOI (USGS)
SUBJECT: Earth Sciences
EIF DATE: 01/01/63 TERM DATE: 12/31/94
REMARKS: Establishment of earth sciences organization;
geographic and geologic cartography; mining; geologic,
geochemical and geophysical studies; geologic and mineral
resources database. Government of Saudi Arabia funding:
\$5,500K.

COUNTRY: Saudi Arabia
AGENCY: DOT
SUBJECT: Transportation
EIF DATE: 10/26/83 TERM DATE:
REMARKS: - In 1991 total TRANSPORT Project team consisted of 9
employees: 6 in Riyadh and 3 in Washington with an approved
budget of \$20 million. The Project trained over 100 Saudi
Arabian engineers in computer design and traffic engineering and
initiated a comprehensive training for 1992.

COUNTRY: Saudi Arabia
AGENCY: HHS
SUBJECT: Biomedical Sciences
EIF DATE: 09/01/74 TERM DATE: 02/12/95
REMARKS: Under U.S.-Saudi Arabian Joint Commission Technical Cooperation Agreement; shares knowledge and transfers technology in emergency medical services (HRSA) and food and drug control (FDA). FDA currently has two projects: (1) Food Control Project (CONPROT) - Ongoing. However, FDA is in process of terminating this project; (2) Drug Control Project (DRUGCON) - Ongoing. Joint Commission Technical Cooperation Agreement funded by Saudi-owned U.S. dollars in JECOR Account at U.S. Treasury.

COUNTRY: Saudi Arabia
AGENCY: HHS
SUBJECT: Biomedical Sciences
EIF DATE: 10/01/86 TERM DATE: 12/31/93
REMARKS: CDC field epidemiology training program. Funding not specified.

COUNTRY: Saudi Arabia
AGENCY: NSF
SUBJECT: Basic Sciences & Engineering
EIF DATE: 06/01/79 TERM DATE: 02/13/95
REMARKS: Project agreement in conjunction with US Treasury Department; institutional development of a national S&T information system, grants program and a national research institutes, science education. An exchange of letters. Funding not specified.

SENEGAL

COUNTRY: Senegal

AGENCY: NASA

SUBJECT: Space

EIF DATE: 01/30/81

TERM DATE: 12/31/90

REMARKS: NASA tracking station in Senegal being extended for six years. Funding not specified.

COUNTRY: Senegal

AGENCY: NASA

SUBJECT: Space

EIF DATE: 01/01/83

TERM DATE: 01/01/93

REMARKS: Use of Senegalese air field as a Space Shuttle emergency landing site. Funding not specified.

SIERRA LEONE

COUNTRY: Sierra Leone

AGENCY: HHS

SUBJECT: Biomedical Sciences

EIF DATE: 01/01/82

TERM DATE:

REMARKS: Termination date: Indefinite. Long-term agreement between Centers for Disease Control and Ministry of Health in joint research for viral hemorrhagic fevers. Funding not specified.

SOUTH AFRICA

COUNTRY: South Africa
AGENCY: DOC (NOAA)
SUBJECT: Space Technologies
EIF DATE: 10/19/83 TERM DATE:
REMARKS: Direct reception and distribution of Landsat data at
Landsat ground station; extends through the life of Landsat-4 and
Landsat-5. No U.S. funding.

COUNTRY: South Africa
AGENCY: DOI (USGS)
SUBJECT: Earth Sciences
EIF DATE: 12/01/87 TERM DATE: 12/01/92
REMARKS: Establish facilities to be incorporated into Global
Seismograph Network. Funding not specified.

SPAIN

COUNTRY: Spain
AGENCY: DOD
SUBJECT: Technical Cooperation
EIF DATE: 06/09/80 TERM DATE: 12/13/97
REMARKS: Provides for exchange of technical information related to development of weapons systems of mutual interest to the U.S. and Spain. 6 annexes (fluids and lubricants, solid propellant, antenna design, mines, shipboard gun systems, proving grounds.) Funding not specified.

COUNTRY: Spain
AGENCY: DOE
SUBJECT: Energy
EIF DATE: 06/06/86 TERM DATE: 06/06/91
REMARKS: Renewal pending IPR renegotiations. MOU between DOE and the Spanish Junta de Energia Nuclear for cooperation in energy R&D. Covers nuclear waste management; renewable energy, including biomass, coal and gas technologies, conservation, high energy physics, and environmental impact of energy technology. DOE Record No. 181. Funding not specified.

COUNTRY: Spain
AGENCY: DOT
SUBJECT: Transportation
EIF DATE: 11/10/71 TERM DATE:
REMARKS: Cooperative research in the areas of high-speed ground projects, commuter transportation in large, densely populated urban areas, and railroad access to airports. Funding not specified.

COUNTRY: Spain
AGENCY: DOT
SUBJECT: Transportation
EIF DATE: 11/10/71 TERM DATE: 04/12/90
REMARKS: Although the agreement expired, the activities continue to be active by mutual consent. Transportation planning exchanges; concrete structure research; seismic effects on bridge deck systems; 5 projects were funded under the U.S.-Spain Agreement of Friendship, Defense and Cooperation, and carried out by U.S. universities. Present funding not specified.

COUNTRY: Spain
AGENCY: HHS
SUBJECT: Health Sciences
EIF DATE: 09/01/84 TERM DATE: 06/01/91
REMARKS: Renewal under negotiation. CDC agreement with Fondo de Investigaciones Sanitarias de la Seguridad Social for collaborative research on toxic oil syndrome. Funding not specified.

COUNTRY: Spain
AGENCY: NASA
SUBJECT: Space
EIF DATE: 01/29/64 TERM DATE: 01/29/94
REMARKS: Renewal of older agreement between NASA and Spain (EIF-05/01/84 to /89). Use of Spanish air bases as Space Shuttle emergency landing sites and allows for a NASA tracking station. Will be extended in 10-yr. increments. Funding not specified.

COUNTRY: Spain
AGENCY: NASA
SUBJECT: Space
EIF DATE: 07/11/91 TERM DATE: 07/11/99
REMARKS: Renewable after 8 years. Use of Spanish air base as Space Shuttle emergency site. Promotion of space R&D cooperation. Funding not specified.

COUNTRY: Spain
AGENCY: NRC
SUBJECT: Nuclear Safety
EIF DATE: 10/29/74 TERM DATE: 09/27/94
REMARKS: Information exchange and general technical cooperation with CNS. Funding not specified.

COUNTRY: Spain
AGENCY: NRC
SUBJECT: Nuclear Safety
EIF DATE: 11/15/85 TERM DATE: 09/17/96
REMARKS: Severe accident source term program; nuclear plant analyzer application programs and thermal hydraulic code assessment program. Funding not specified.

COUNTRY: Spain
AGENCY: US Gov
SUBJECT: S&T Umbrella
EIF DATE: 05/01/84 TERM DATE: 05/01/88
REMARKS: The US-Spain Agreement of Friendship, Defense & Cooperation under which a Complementary Agreement on Culture & Education and Science & Technology functions, expired May 1988. S&T funds in abeyance pending renegotiation. Presently under review to renew. Funding not specified.

SRI LANKA

COUNTRY: Sri Lanka
AGENCY: DOI (NPS)
SUBJECT: Natural Resources
EIF DATE: 06/01/84 TERM DATE: 09/30/89
REMARKS: Training and technical assistance; Mahaweli protected area management; USAID funding of \$500,000. Expired and under renegotiation.

COUNTRY: Sri Lanka
AGENCY: US Gov
SUBJECT: S&T Umbrella
EIF DATE: 06/01/84 TERM DATE: 06/01/90
REMARKS: On-going agreement on cooperation in science and technology
Funding not specified.

SWEDEN

COUNTRY: Sweden
AGENCY: DOC (NTIS)
SUBJECT: S&T Information
EIF DATE: 11/01/90 TERM DATE: 12/31/92
REMARKS: Information exchange. Funding not specified.

COUNTRY: Sweden
AGENCY: DOE
SUBJECT: Energy (Nuclear)
EIF DATE: 09/09/80 TERM DATE: 09/09/95
REMARKS: Exchange information in radioactive waste management, particularly in the assessment of rock formations for terminal storage. DOE Record No. 81. Funding not specified.

COUNTRY: Sweden
AGENCY: DOI (USGS)
SUBJECT: Earth Sciences
EIF DATE: 07/01/90 TERM DATE: 09/30/91
REMARKS: Cooperative research on subsurface problems related to nuclear waste disposal and ground water contamination. Funding: USGS \$76,000; Sweden: \$57,000.

COUNTRY: Sweden
AGENCY: DOT
SUBJECT: Transportation
EIF DATE: 03/15/72 TERM DATE:
REMARKS: Ongoing MOU concerning cooperation in the development of experimental safety vehicles. Funding not specified.

COUNTRY: Sweden
AGENCY: HHS
SUBJECT: Biomedical Sciences
EIF DATE: 10/20/74 TERM DATE:
REMARKS: Termination date: Indefinite. National Library of Medicine MEDLARS Agreement with Karolinska Institute; quid pro quo interlibrary exchange. Funding not specified.

COUNTRY: Sweden
AGENCY: NASA
SUBJECT: Space
EIF DATE: 08/28/73 TERM DATE:
REMARKS: Ongoing agreement for sounding rocket launches from
Esrange, Sweden. Funding not specified.

COUNTRY: Sweden
AGENCY: NRC
SUBJECT: Nuclear Safety
EIF DATE: 12/06/74 TERM DATE: 10/04/94
REMARKS: Information exchange and general technical cooperation
with SKI. Funding not specified.

COUNTRY: Sweden
AGENCY: NRC
SUBJECT: Nuclear Safety
EIF DATE: 03/03/87 TERM DATE:
REMARKS: Termination date: Indefinite. International piping
integrity research with SKI/Studsvik. To last the duration of
IPIRG Program. Cooperation will continue under IPIRG-2. Funding
not specified.

COUNTRY: Sweden
AGENCY: NRC
SUBJECT: Nuclear Safety
EIF DATE: 10/01/84 TERM DATE: 12/31/90
REMARKS: Severe accident research, source term, and containment
research with SKI/Studsvik. Renewal under negotiation. Funding
not specified.

COUNTRY: Sweden
AGENCY: NRC
SUBJECT: Nuclear Safety
EIF DATE: 02/25/85 TERM DATE:
REMARKS: Thermal hydraulics. New agreement under negotiation.
Funding not specified.

COUNTRY: Sweden
AGENCY: NSF
SUBJECT: Basic Sciences
EIF DATE: 10/20/84 TERM DATE: 10/20/89
REMARKS: Letter of Agreement for joint research, seminars,
workshops & scientific exchanges with the National Science
Research Council of Sweden. Consideration of renewal under
process. Funding not specified.

SWITZERLAND

COUNTRY: Switzerland
AGENCY: DOE
SUBJECT: Energy (Nuclear)
EIF DATE: 04/19/85 TERM DATE: 09/22/96
REMARKS: Study of mutually agreed topics associated with the management of radioactive waste and related activities of the nuclear fuel cycle. DOE Record No. 158. Funding not specified.

COUNTRY: Switzerland
AGENCY: HHS
SUBJECT: Biomedical Sciences
EIF DATE: 02/21/80 TERM DATE:
REMARKS: Termination date: Indefinite. National Library of Medicine MEDLARS Agreement with the Documentation Service of the Swiss Academy of Medical Sciences; quid pro quo interlibrary exchange. Funding not specified.

COUNTRY: Switzerland
AGENCY: NRC
SUBJECT: Nuclear Safety
EIF DATE: 12/09/74 TERM DATE: 09/23/92
REMARKS: Information exchange and general technical cooperation with FOE. Funding not specified.

COUNTRY: Switzerland
AGENCY: NRC
SUBJECT: Nuclear Safety
EIF DATE: 07/25/89 TERM DATE: 12/31/91
REMARKS: Agreement under renegotiation. Thermal-Hydraulic Research with Paul Scherrer Institute (PSI). Cooperation evolved into a new program, CAMP. Funding not specified.

COUNTRY: Switzerland
AGENCY: NRC
SUBJECT: Nuclear Safety
EIF DATE: 09/26/86 TERM DATE: 09/26/91
REMARKS: Radioactive waste management and safety research with NAGRA. Funding not specified.

COUNTRY: Switzerland
AGENCY: NRC
SUBJECT: Nuclear Safety
EIF DATE: 03/01/87 TERM DATE: 07/31/91
REMARKS: International piping integrity research. Cooperation
will continue under IPIRG-2, which is under renegotiation.
Funding not specified.

COUNTRY: Switzerland
AGENCY: NRC
SUBJECT: Nuclear Safety
EIF DATE: 06/09/87 TERM DATE: 09/23/92
REMARKS: Severe accident research with FOE; extension under
discussion. Funding not specified.

TAIWAN

COUNTRY: Taiwan
AGENCY: DOC (NIST)
SUBJECT: Metrology
EIF DATE: 01/01/87 TERM DATE: 01/01/93
REMARKS: MOU with the American Institute in Taiwan under Cooperative Science Agreement between the U.S. and Taiwan signed September 4, 1980. Funding not specified.

COUNTRY: Taiwan
AGENCY: DOC (NOAA)
SUBJECT: Geodesy
EIF DATE: 02/21/91 TERM DATE:
REMARKS: Termination date: Indefinite. This agreement between NOAA and AIT facilitates training, shared technical expertise, and scientific exchange activities on a reimbursable basis for geodesy and the use of advanced geodetic technology such as absolute gravity measurements relevant to global change.

COUNTRY: Taiwan
AGENCY: DOC (NOAA)
SUBJECT: Meteorology
EIF DATE: 06/28/90 TERM DATE: 06/27/95
REMARKS: This 5 year agreement transfers NOAA NOWCAST technology to Taiwan for improved forecasts, enables NOAA to test the NOWCAST under different meteorological conditions and secures standardization of weather forecast technology with the U.S. Funding not specified.

COUNTRY: Taiwan
AGENCY: DOC (NTIS)
SUBJECT: S&T Information
EIF DATE: 11/17/87 TERM DATE:
REMARKS: Termination date: indefinite, unless one of the parties gives 6-mos. notice. Information exchange. Funding not specified.

COUNTRY: Taiwan
AGENCY: DOI (BUREC)
SUBJECT: Dam Design, Construction
EIF DATE: 08/24/87 TERM DATE:
REMARKS: Termination date and funding not specified. On-going.

COUNTRY: Taiwan
AGENCY: HHS
SUBJECT: Biomedical Sciences
EIF DATE: 01/01/84 TERM DATE:
REMARKS: CDC Field Epidemiology Training Program. Termination date: Indefinite. ADAMHA program interests in mental health and substance abuse, including alcohol abuse and alcoholism, coordinated by the Coordinating Council for North American Affairs. Funding not specified.

COUNTRY: Taiwan
AGENCY: HHS
SUBJECT: Biomedical Sciences
EIF DATE: 05/21/84 TERM DATE:
REMARKS: On-going. Termination date and funding not specified.

COUNTRY: Taiwan
AGENCY: HHS
SUBJECT: Biomedical Sciences
EIF DATE: TERM DATE:
REMARKS: Disease Control and Prevention. On-going; termination date and funding not specified.

COUNTRY: Taiwan
AGENCY: NRC
SUBJECT: Nuclear Safety
EIF DATE: 09/13/90 TERM DATE: 10/18/94
REMARKS: Research cooperation on a Hualian soil-structure interaction and large-scale seismic test. Funding not specified.

COUNTRY: Taiwan
AGENCY: NRC
SUBJECT: Nuclear Safety
EIF DATE: 05/01/86 TERM DATE: 05/31/90
REMARKS: Thermal-Hydraulic Research between AIT and the CCNAA; renewal under negotiation. Funding not specified.

COUNTRY: Taiwan
AGENCY: NRC
SUBJECT: Nuclear Safety
EIF DATE: 04/23/87 TERM DATE: 07/31/91
REMARKS: Participation in the International Piping Integrity Research Group with CCNAA/AIT. Cooperation will continue under IPIRG-2, which is under renegotiation. Funding not specified.

COUNTRY: Taiwan
AGENCY: NRC
SUBJECT: Nuclear Safety
EIF DATE: 10/12/84 TERM DATE: 10/22/90
REMARKS: Participation in Severe Nuclear Accident Research
Program with CCNAA/AIT. Renewal under negotiation. Funding not
specified.

COUNTRY: Taiwan
AGENCY: NSF
SUBJECT: Basic Science
EIF DATE: 09/24/80 TERM DATE:
REMARKS: On-going; termination date and funding not specified.

COUNTRY: Taiwan
AGENCY: USDA
SUBJECT: Agricultural Science
EIF DATE: 01/28/86 TERM DATE:
REMARKS: termination date and funding not specified. On-going.

THAILAND

COUNTRY: Thailand
AGENCY: DOC (NOAA)
SUBJECT: Space Technologies
EIF DATE: 09/18/85 TERM DATE:
REMARKS: Direct reception and distribution of Landsat data at
Landsat ground station; extends through the life of Landsat-4 and
Landsat-5. No U.S. funding.

COUNTRY: Thailand
AGENCY: DOI (NPS)
SUBJECT: Protected Area Management
EIF DATE: 11/08/89 TERM DATE: 11/08/92
REMARKS: Technical assistance and training in management,
planning, policies, and guidelines, resource management,
interpretation and infrastructure assessment capabilities under
auspices of NPS/USAID PASA. USAID Funding:
\$620,000.

COUNTRY: Thailand
AGENCY: DOI (NPS)
SUBJECT: Natural Resources
EIF DATE: 04/01/84 TERM DATE: 04/01/89
REMARKS: On-going agreement concerning training and technical
assistance in national parks; USAID funding of \$53,000.

COUNTRY: Thailand
AGENCY: HHS
SUBJECT: Biomedical Sciences
EIF DATE: 01/01/80 TERM DATE:
REMARKS: Termination date: Indefinite. CDC Field Epidemiology
Training Program. Funding not specified.

COUNTRY: Thailand
AGENCY: HHS
SUBJECT: Biomedical Sciences
EIF DATE: 03/01/90 TERM DATE:
REMARKS: Termination date: Indefinite. CDC and Ministry of
Health collaboration in HIV-1 and HIV-2 epidemiology, laboratory
surveillance and research. Funding not specified.

COUNTRY: Thailand

AGENCY: US Gov

SUBJECT: S&T Umbrella

EIF DATE: 04/13/84

TERM DATE: 10/13/89

REMARKS: Agreement on cooperation in science & technology;
individual cooperating agencies negotiate funding with
counterpart agencies.

UNITED ARAB EMIRATES

COUNTRY: United Arab Emirates

AGENCY: DOI (USGS)

SUBJECT: Earth Sciences

EIF DATE: 02/14/88

TERM DATE: 02/14/93

REMARKS: Assessment of ground-water resources of Abu-Dhabi.

Funded by Abu Dhabi Emirate at \$6 million. In FY 1991:

\$1,400,000; 8 resident USGS staff and 0.5 man-years

TDYs.

UNITED KINGDOM

COUNTRY: United Kingdom
AGENCY: DOC (NOAA)
SUBJECT: Space Technologies
EIF DATE: 02/14/86 TERM DATE: 02/14/94
REMARKS: United Kingdom will provide an Advanced Microwave Sounding Unit (AMSU) for flight on future NOAA spacecraft. Funding not specified.

COUNTRY: United Kingdom
AGENCY: DOC (NTIS)
SUBJECT: S&T Information
EIF DATE: 01/01/82 TERM DATE:
REMARKS: Termination date: Indefinite. Information exchange. Funding not specified.

COUNTRY: United Kingdom
AGENCY: DOD
SUBJECT: Technical R&D
EIF DATE: 10/26/88 TERM DATE:
REMARKS: Cooperative R&D agreement with unspecified termination date. Program involves development of new acoustic sensors and countermeasures to detect, track, and divert incoming torpedoes. Provide torpedo defense against all threat torpedos for surface ships. Funded with Nunn Amendment.

COUNTRY: United Kingdom
AGENCY: DOD
SUBJECT: Technical R&D
EIF DATE: 07/17/89 TERM DATE:
REMARKS: Cooperative R&D agreement of unspecified termination date. On-going agreement regarding infrared missile countermeasures. Funded with Nunn Amendment.

COUNTRY: United Kingdom
AGENCY: DOD
SUBJECT: Technical R&D
EIF DATE: 10/12/89 TERM DATE:
REMARKS: Cooperative R&D agreement of unspecified termination date. To share technology base in Electro-magnetic (EM) gun development, to address component integration issues and to conduct a joint projectile and hypervelocity terminal effects program. Funded with Nunn Amendment.

COUNTRY: United Kingdom
AGENCY: DOD
SUBJECT: Technical R&D
EIF DATE: 01/23/86 TERM DATE:
REMARKS: Cooperative R&D agreement regarding ASTOVL - Advanced
Takeoff - Vertical Landing Aircraft. Technology demonstration of
short take off and landing aircraft. Development of hot gas
ingestion, propulsion lift generation, and thrust deflector
nozzle technology. Active project involving DARPA, US Air Force,
US Navy, and NASA relating to engines and different
configurations. Project on-going for 5 years; 3 years extension
current under negotiations. Funded with Nunn Amendment.

COUNTRY: United Kingdom
AGENCY: DOE
SUBJECT: Energy
EIF DATE: 06/11/90 TERM DATE: 06/11/00
REMARKS: Broad-based agreement on energy R&D activities. DOE
Record No. 277. Funding not specified.

COUNTRY: United Kingdom
AGENCY: DOE
SUBJECT: Energy (Nuclear)
EIF DATE: 09/20/76 TERM DATE: 09/30/91
REMARKS: A balanced information exchange of liquid metal fast
breeder reactor technology in such areas as reactor safety,
neutronics analysis, etc. Being renegotiated to include FRG,
France, Italy and Belgium. DOE Record No. 25. Funding not
specified.

COUNTRY: United Kingdom
AGENCY: DOE
SUBJECT: Energy (Nuclear)
EIF DATE: 08/26/88 TERM DATE: 08/26/98
REMARKS: Information exchange and collaboration on gas-cooled
reactor graphite technology in cooperative areas like graphite
creep data; graphite fracture models and data; graphite strength
data; and graphite probabilistic risk. DOE Record No. 250.
Funding not specified.

COUNTRY: United Kingdom
AGENCY: DOE
SUBJECT: Energy (Nuclear)
EIF DATE: 10/30/86 TERM DATE: 10/30/91
REMARKS: Exchange of technology for management of radioactive
waste. DOE Record No. 189. Funding not
specified.

COUNTRY: United Kingdom
AGENCY: DOE
SUBJECT: Energy (Nuclear)
EIF DATE: 03/01/85 TERM DATE: 03/01/93
REMARKS: Establish a reciprocal and balanced exchange of decommissioning technology and experiences with nuclear facilities. DOE Record No. 155. Funding not specified.

COUNTRY: United Kingdom
AGENCY: DOI (MMS)
SUBJECT: Natural Resources
EIF DATE: 05/16/89 TERM DATE:
REMARKS: The focus of the MOU is offshore oil and gas development safety-related research. United Kingdom's Health and Safety Executive and the MMS agree to the exchange of scientific and technical information on studies of safety and of personnel, offshore installations, and pollution prevention. Termination date: Indefinite. Funding not specified.

COUNTRY: United Kingdom
AGENCY: DOI (NPS)
SUBJECT: Environment
EIF DATE: 07/13/91 TERM DATE: 07/13/96
REMARKS: World Heritage Convention; conservation of protected landscapes, undeveloped coastline, privately owned land; development of trails and voluntary conservation agreement mechanisms; role of public and private sectors in conservation. Funding not specified.

COUNTRY: United Kingdom
AGENCY: DOI (USGS)
SUBJECT: Earth Sciences
EIF DATE: 02/14/84 TERM DATE: 09/30/94
REMARKS: Sea floor sonar imagining, surveys using the Geologic Long-Range Inclined Asdic (GLORIA) System. Project funded at \$3.4 million.

COUNTRY: United Kingdom
AGENCY: DOT
SUBJECT: Transportation
EIF DATE: 03/09/88 TERM DATE:
REMARKS: Original agreement altered to indefinite duration on 03-09-88; termination with 6 months' notice by either party. Involves general transport system planning exchanges; civil aviation security. Funding not specified.

COUNTRY: United Kingdom
AGENCY: DOT
SUBJECT: Transportation
EIF DATE: 05/11/71 TERM DATE:
REMARKS: Ongoing agreement establishes cooperation in all modes of transportation, information exchanges concerning policy formulations on public/private transport, exchange of science and technology, and the exchange of executive personnel. Funding not specified.

COUNTRY: United Kingdom
AGENCY: EPA
SUBJECT: Environment
EIF DATE: 06/02/86 TERM DATE:
REMARKS: Five-year self-renewing agreement for the exchange of information regarding management of hazardous wastes and acid deposition. Coordination of positions on international issues. Funding not specified.

COUNTRY: United Kingdom
AGENCY: HHS
SUBJECT: Biomedical Sciences
EIF DATE: 06/25/74 TERM DATE:
REMARKS: Termination date: Indefinite. National Library of Medicine MEDLARS Agreement with the British Library; quid pro quo interlibrary exchange. Funding not specified.

COUNTRY: United Kingdom
AGENCY: NRC
SUBJECT: Nuclear Safety
EIF DATE: 08/03/77 TERM DATE: 08/03/92
REMARKS: General safety research umbrella agreement with AEA. Funding not specified.

COUNTRY: United Kingdom
AGENCY: NRC
SUBJECT: Nuclear Safety
EIF DATE: 09/30/83 TERM DATE: 01/24/92
REMARKS: Severe accident research with AEA. Funding not specified.

COUNTRY: United Kingdom
AGENCY: NRC
SUBJECT: Nuclear Safety
EIF DATE: 03/13/75 TERM DATE: 04/07/91
REMARKS: Information exchange and general technical cooperation with H&SE. Renewal under negotiation pending IPR action. Funding not specified.

COUNTRY: United Kingdom

AGENCY: NRC

SUBJECT: Nuclear Safety

EIF DATE: 07/11/89

TERM DATE: 09/30/92

REMARKS: Reliability and Probabilistic Risk Analysis with
UKAEA. Funding not specified.

USSR

COUNTRY: USSR
AGENCY: DOC (NIST)
SUBJECT: Basic & Applied Sci.
EIF DATE: 05/13/91 TERM DATE: 05/13/96
REMARKS: MOU with Soviet Academy of Sciences regarding cooperation on physical chemistry and engineering sciences. Funding not specified.

COUNTRY: USSR
AGENCY: DOC (NOAA)
SUBJECT: Fisheries
EIF DATE: 05/31/88 TERM DATE: 05/31/93
REMARKS: Reciprocal Governing International Fishery Agreement established on a bilateral basis which sets conditions under which foreign fishing vessels are granted access to fishery resources within the U.S. EEZ (and vice versa), including fees for processing permits and support for observer program.

COUNTRY: USSR
AGENCY: DOC (NOAA)
SUBJECT: Marine Science
EIF DATE: 06/01/90 TERM DATE: 05/31/95
REMARKS: Oceans Studies Agreement signed by Secretary of State Baker and Foreign Minister Schevardnadze. Replaces 1973 Studies of the World Oceans Agreement. Provides for cooperation in physical oceanography; chemical and biological oceanography; geological, geophysical and geochemical investigations of oceans and coastal regions; biological productivity of functioning of oceanic biological communities; and marine meteorology. Includes USGS MOU. Funding not specified.

COUNTRY: USSR
AGENCY: DOC (NOAA)
SUBJECT: Atmospheric Science
EIF DATE: 05/23/72 TERM DATE: 05/01/92
REMARKS: Agreement on Cooperation in the Field of Environment Protection: exchange of scientists, information exchange, and joint research on influence of environmental change on climate, in particular, global climate change studies. Funding not specified.

COUNTRY: USSR
AGENCY: DOC (NTIS)
SUBJECT: S&T Information
EIF DATE: 01/01/91 TERM DATE: 12/31/94
REMARKS: Termination date: Indefinite. Information exchange.
Funding not specified.

COUNTRY: USSR
AGENCY: DOD (COE)
SUBJECT: Building Technology
EIF DATE: 06/01/84 TERM DATE:
REMARKS: Participation under the direction of the DOD in the
US-USSR Joint Committee on Cooperation in the Field of Housing
and Other Construction; implementing project agreements now being
negotiated. Not actually an independent agreement. Funding not
specified.

COUNTRY: USSR
AGENCY: DOE
SUBJECT: Energy (Nuclear)
EIF DATE: 06/01/90 TERM DATE: 06/01/95
REMARKS: Cooperation in peaceful uses of atomic energy; provides
for cooperation thru MOC in magnetic confinement fusion, fast
breeder reactor safety, fundamental properties of nature,
civilian reactor safety. DOE Record No. 276. Funding not
specified.

COUNTRY: USSR
AGENCY: DOE
SUBJECT: Energy
EIF DATE: 06/01/90 TERM DATE: 06/01/95
REMARKS: Revised agreement signed by Presidents Bush and
Gorbachev at June 1990 summit. Original agreement signed in
1973. Includes several MOC's, including a subsidiary MOC in the
fields of environmental restoration and waste management (signed
in September 1990.) Strengthens long-standing framework for
research in magnetic confinement fusion, fast breeder reactor
safety, the fundamental properties of matter, and civilian
nuclear reactor safety. Funding not specified.

COUNTRY: USSR
AGENCY: DOI (FWS)
SUBJECT: Natural Resources
EIF DATE: 05/23/72 TERM DATE: 05/23/92
REMARKS: Exchange of scientists to work on conservation
activities relating to wildlife and wildlife habitats.
Development of US/USSR international park and training in park
management techniques. Funding not specified.

COUNTRY: USSR
AGENCY: DOI (USGS)
SUBJECT: Earth Sciences
EIF DATE: 06/01/90 TERM DATE:
REMARKS: Project on geochemistry of marine sediments under
US/USSR Ocean Studies Agreement signed in 1990. Funding: USGS
\$100,000.

COUNTRY: USSR
AGENCY: DOI (USGS)
SUBJECT: Earth Sciences
EIF DATE: 05/06/89 TERM DATE: 05/06/94
REMARKS: Cooperative projects in petroleum geology, mineral and
water resources, deep continental drilling, geochemistry, and
earthquake research. Funding: USGS \$370,000; USSR \$112,000.

COUNTRY: USSR
AGENCY: DOI (USGS)
SUBJECT: Earth Sciences
EIF DATE: TERM DATE:
REMARKS: On-going. USGS participates in activities under
environmental agreement. Other agency also involved: EPA.
Projects on seismological studies and climate change under
US/USSR Environmental Agreement. Funding: USGS \$32,000; USSR
\$31,500; 41,300.

COUNTRY: USSR
AGENCY: DOI (USGS)
SUBJECT: Earth Sciences
EIF DATE: 11/14/90 TERM DATE: 05/14/96
REMARKS: Cooperation in Mapping Sciences. Funding: USGS
\$37,600; USSR \$9,200.

COUNTRY: USSR
AGENCY: DOT
SUBJECT: Transportation
EIF DATE: 05/01/89 TERM DATE:
REMARKS: On-going. Agreement between the U.S. Coast Guard and
the Government of the Soviet Union for cooperation in marine
pollution response. Funding not specified.

COUNTRY: USSR
AGENCY: DOT
SUBJECT: Transportation
EIF DATE: 01/10/89 TERM DATE:
REMARKS: On-going. Agreement between the DOT/USCG and MINMORFLOT
to cover details of marine pollution response cooperation.
Funding not specified.

COUNTRY: USSR
AGENCY: DOT
SUBJECT: Transportation
EIF DATE: 05/31/88 TERM DATE: 05/31/93
REMARKS: On-going agreement, annex to 1988 agreement between USC and GOSU; provides technical information to implement basic agreement. It provides for cooperative activities in the areas of civil aviation, railroad safety, highway bridge construction and highway and traffic safety programs. The civil aviation program has been extremely active and most beneficial to both sides. Funding not specified.

COUNTRY: USSR
AGENCY: DOT
SUBJECT: Transportation
EIF DATE: 05/31/88 TERM DATE:
REMARKS: Agreement on establishment of joint (maritime) radionavigation system in the Bering Sea, which will coordinate USCG operated LORAN system with Soviet CHAYKA system. Ongoing discussions seek to resolve inherent technical details. Funding not specified.

COUNTRY: USSR
AGENCY: EPA
SUBJECT: Environment
EIF DATE: 05/23/72 TERM DATE: 09/10/92
REMARKS: EPA and MINPRIRODA are lead agencies for this self-renewing agreement; projects on areas of air and water pollution, park management, nature protection, climate change, earthquake prediction, Arctic and Subarctic ecosystems, environment, and education. Funding not specified.

COUNTRY: USSR
AGENCY: HHS
SUBJECT: Biomedical Sciences
EIF DATE: 05/01/72 TERM DATE: 05/01/92
REMARKS: Under government-to-government health agreement on cancer, cardiovascular disease, environmental health, arthritis, biomedical communication, eye disease, mental health and alcohol and drug abuse, and individual health scientist exchange. Funding not specified.

COUNTRY: USSR
AGENCY: HHS
SUBJECT: Biomedical Sciences
EIF DATE: 06/28/74 TERM DATE: 06/28/92
REMARKS: Agreement between NHLBI and Ministry of Health, All Union Center for Cardiological Research, for cooperation on artificial heart research and development. Funding not specified.

COUNTRY: USSR
AGENCY: NASA
SUBJECT: Space
EIF DATE: 04/15/87 TERM DATE: 04/14/92
REMARKS: Cooperation in 5 areas of space science and applications: Space biology and medicine; solar system exploration; astronomy and astrophysics; solar terrestrial physics; and earth sciences. Funding not specified.

COUNTRY: USSR
AGENCY: NASA
SUBJECT: Space
EIF DATE: 07/25/90 TERM DATE:
REMARKS: A U.S. Total Ozone Mapping Spectrometer (TOMS), including an Interface Adapter Module, will be launched on a Soviet Meteor-3 satellite in August, 1991. Funding not specified.

COUNTRY: USSR
AGENCY: NRC
SUBJECT: Nuclear Safety
EIF DATE: 04/26/88 TERM DATE: 04/26/93
REMARKS: Information exchange and general technical cooperation with SCUAE; Memorandum of Cooperation. Funding not specified.

COUNTRY: USSR
AGENCY: NSF
SUBJECT: Basic Sciences
EIF DATE: 05/06/89 TERM DATE: 05/06/94
REMARKS: MOU under the 1989 Basic Sciences intergovernmental agreement. Provides for joint research projects, seminars and workshops, and short-term project development visits. Funding not specified.

COUNTRY: USSR
AGENCY: USDA
SUBJECT: Agriculture
EIF DATE: 06/19/73 TERM DATE: 06/19/93
REMARKS: Joint Committee on Agricultural Cooperation meet once a year to review and approve Protocols of agricultural R&D , agricultural economics, food processing and forestry working groups. Agreed to exchange teams of scientists and specialists in 1990 & 1991. Established a Joint Working Group on Agricultural Research and Development. Automatic renewal every 5 years. Funding not specified.

COUNTRY: USSR

AGENCY: US Gov

SUBJECT: S&T Umbrella

EIF DATE: 01/08/89

TERM DATE: 01/08/94

REMARKS: Provides for cooperation in basic scientific research in 9 areas; one, social sciences, was added during the Joint Commission meeting held in Moscow May 13-14, 1991. Also, Experimental Physics was added to Theoretical Physics at that time. Activity was noted in the MOU in Geosciences. Funding not specified.

YUGOSLAVIA

COUNTRY: Yugoslavia
AGENCY: DOC (NIST)
SUBJECT: Basic & Applied Science
EIF DATE: 06/27/88 TERM DATE: 06/26/93
REMARKS: Projects conducted under the umbrella S&T agreement; in FY91 46 active projects with Yugoslav institutions covering a wide range of mutual interests. Funding not specified.

COUNTRY: Yugoslavia
AGENCY: DOI (USGS)
SUBJECT: Earth Sciences
EIF DATE: 06/27/88 TERM DATE: 06/27/93
REMARKS: Projects under the S&T Umbrella Agreement. USGS funding: \$5,500.

COUNTRY: Yugoslavia
AGENCY: HHS
SUBJECT: Biomedical Sciences
EIF DATE: 11/01/79 TERM DATE: 11/01/92
REMARKS: Under US-Yugoslavia S&T Cooperation Agreement, cooperation on: cardiopulmonary research, metabolic diseases, neurosciences, cancer, human reproduction, alcohol research and individual health, scientist exchanges. Two ongoing FDA programs: one on drug therapies, the other on epidemiology. Funding not specified.

COUNTRY: Yugoslavia
AGENCY: NRC
SUBJECT: Nuclear Safety
EIF DATE: 09/19/85 TERM DATE:
REMARKS: Information exchange and general technical cooperation with FSEI. Renewal under negotiation. Funding not specified.

COUNTRY: Yugoslavia
AGENCY: US Gov
SUBJECT: S&T Umbrella
EIF DATE: 10/25/88 TERM DATE: 10/24/93
REMARKS: Supersedes and terminates the previous umbrella signed on 04-02-80, and includes annex for IPR protection. US participating agencies include: DOE, EPA, HHS, NIST, NSF, USDA, USGS, Bureau of Mines, DOT, NIDRR, NOAA, SMI subject to funding. US contributions: up to \$10 million over 5 years, and matched in equivalent Yugoslavian currency.

ZAIRE

COUNTRY: Zaire

AGENCY: HHS

SUBJECT: Biomedical Sciences

EIF DATE: 01/01/84

TERM DATE:

REMARKS: Termination date: Indefinite. Program among CDC, Belgian Ministry of Health, Belgian Institute of Tropical Medicine, U.S. Armed Forces Institute of Pathology, and NIH to cooperate on AIDS surveillance, research, and prevention. Funding not specified.

APPENDIX II

DATABASE

SUMMARY OF U.S. INTERNATIONAL S&T AGREEMENTS BY AGENCY

Explanation of Databases

The information in the following databases is intended to provide an overview of international cooperative activities in science and technology between United States Government agencies and their counterparts in other countries. Appendices I and II were assembled from information both on file in the Department of State and provided it by other Federal departments and agencies. It is as complete as this information permits.

In some cases, agreements have technically expired, but are included herein if renewal is pending or if activities under the agreements continue. Agreements that have been active at any time within the last reporting cycle are included as well.

For the most part, the items listed in the databases are at the Memorandum of Understanding (MOU) level or higher. However, information on some additional activities is included if their significance warrants. (In some countries there may be other activities outside of agreements described here but included in the country narratives.)

"Country" designates the cooperating foreign nation. "Multilateral" and "Regional" are designations assigned to activities conducted with more than one country.

"Entry Into Force" (EIF) and "Termination Date" (Term Date) indicate start and end times of agreements. Agreements renewed with no significant alterations usually retain the original EIF date. Agreements with no termination date have an indefinite term; some may have a self-renewing understanding that perpetuates the agreement unless one or more parties wish to end it.

DEPARTMENT OF AGRICULTURE

AGENCY: USDA
COUNTRY: Argentina
SUBJECT: Agricultural Science
EIF DATE: 05/20/81 TERM DATE: 11/17/91
REMARKS: Terms of original MOU expired, but it was agreed to continue exchange without formal renewal of MOU. Program of mutual benefit in agricultural technology, animal health (foot-and-mouth disease), plant health, pest control, agricultural economies, forestry and soil conservation. Funding not specified.

AGENCY: USDA
COUNTRY: Australia
SUBJECT: Agricultural Science
EIF DATE: 02/22/82 TERM DATE:
REMARKS: Automatic renewal every 5 years. Agricultural R&D; soil and water conservation, industrial utilization. Activities continue on ad hoc basis. Funding not specified.

AGENCY: USDA
COUNTRY: Brazil
SUBJECT: Natural Resources
EIF DATE: 08/07/91 TERM DATE: 08/07/96
REMARKS: Framework agreement with Brazilian Institute for Environment and Renewable Natural Resources (IBAMA) for information exchange and joint projects which can include other agencies. Funding not specified.

AGENCY: USDA
COUNTRY: Bulgaria
SUBJECT: Agricultural Science
EIF DATE: 10/22/90 TERM DATE: 10/21/95
REMARKS: A previous Joint Statement between the USDA and Bulgaria expired at the end of 1984. The only substantive changes in the proposed Joint Statement are Article IV on the protection of IPR and an annex covering this issue in detail. Funding not specified.

AGENCY: USDA
COUNTRY: China
SUBJECT: Agricultural Science
EIF DATE: 01/31/79 TERM DATE: 04/30/96
REMARKS: Attached as annex to U.S.-China S&T agreement (Umbrella). Renewed with the S&T agreement. Agricultural R&D

under umbrella S&T agreement; exchange of germplasm like alfalfa, soybeans, pecans; disease resistance breeding in cotton, tomato, cabbage. Other participating agencies-Chinese Ministries of Forestry, Commerce, Water Conservancy. Funding not specified.

AGENCY: USDA
COUNTRY: European Community
SUBJECT: Remote Sensing
EIF DATE: TERM DATE:
REMARKS: Remote sensing applications to agriculture and forestry. Unsigned, under negotiations. Funding not specified.

AGENCY: USDA
COUNTRY: France
SUBJECT: Agricultural Science
EIF DATE: 03/15/82 TERM DATE: 03/15/92
REMARKS: Agricultural S&T; forestry, comparison of remote sensing data for agricultural use, plant science, bioprocessing, economics, etc. Funding not specified.

AGENCY: USDA
COUNTRY: Germany
SUBJECT: Agricultural Science
EIF DATE: 06/01/81 TERM DATE: 06/01/91
REMARKS: Term of original MOU expired, but it was agreed to continue the exchange without formal renewal of MOU. Agricultural S&T; plant biotechnology, integrated pest management, reproductive biology of swine, etc. Funding not specified.

AGENCY: USDA
COUNTRY: Greece
SUBJECT: Agricultural Science
EIF DATE: 06/29/81 TERM DATE: 06/29/91
REMARKS: Germplasm exchange (Agricultural S&T). Currently in abeyance - no activities planned. No funding information available.

AGENCY: USDA
COUNTRY: Hungary
SUBJECT: Agricultural Science
EIF DATE: 07/12/89 TERM DATE: 07/11/94
REMARKS: No funding specified.

AGENCY: USDA
COUNTRY: Ireland
SUBJECT: Agricultural Science
EIF DATE: TERM DATE:
REMARKS: Agricultural S&T, forage/livestock management,
extension, food technology, agribusiness promotion. Unsigned,
but in final stages of negotiation. Funding not
specified.

AGENCY: USDA
COUNTRY: Mexico
SUBJECT: Agricultural Science
EIF DATE: 12/06/83 TERM DATE: 12/06/88
REMARKS: Joint Communique, 04/28/88 to pursue renewal for
program of agricultural and natural resource cooperation in the
fields of tropical agriculture, in arid zones, animal husbandry,
soil conservation, crop forecasting, pest control. Funding not
specified.

AGENCY: USDA
COUNTRY: Netherlands
SUBJECT: Agricultural Science
EIF DATE: 11/20/80 TERM DATE: 11/20/90
REMARKS: Term of original MOU expired, and it was agreed to
continue exchange without formal renewal of MOU. Agricultural
S&T; plant physiology, economic research; soil and water science;
integrated pest management, etc. Funding not
specified.

AGENCY: USDA
COUNTRY: Philippines
SUBJECT: Agricultural Science
EIF DATE: 02/10/88 TERM DATE: 02/10/93
REMARKS: Agricultural S&T; cocoa production technology. Funding
not specified.

AGENCY: USDA
COUNTRY: Taiwan
SUBJECT: Agricultural Science
EIF DATE: 01/28/86 TERM DATE:
REMARKS: Termination date and funding not specified.

AGENCY: USDA
COUNTRY: USSR
SUBJECT: Agriculture
EIF DATE: 06/19/73 TERM DATE: 06/19/93
REMARKS: Joint Committee on Agricultural Cooperation meet once a
year to review and approve Protocols of agricultural R&D ,
agricultural economics, food processing and forestry working

groups. Agreed to exchange teams of scientists and specialists in 1990 & 1991. Established a Joint Working Group on Agricultural Research and Development. Automatic renewal every 5 years. Funding not specified.

AGENCY: USDA

COUNTRY: Venezuela

SUBJECT: Agricultural Science

EIF DATE: 03/01/91

TERM DATE: 02/29/96

REMARKS: MOU signed between USDA and the Ministry of Agriculture and Livestock of the Republic of Venezuela. Replaces older MOU signed in Caracas 4/10/80 which had expired. Funding not specified.

AGENCY: USDA

COUNTRY: Zimbabwe

SUBJECT: Agricultural Science

EIF DATE: 04/01/91

TERM DATE: 04/01/96

REMARKS: No funding specified.

DEPARTMENT OF COMMERCE

AGENCY: DOC
COUNTRY: China
SUBJECT: Industrial S&T
EIF DATE: 04/30/84 TERM DATE: 04/30/94
REMARKS: Management training, exchange of information, joint conferences. Severely cut back after 1989.

AGENCY: DOC
COUNTRY: France
SUBJECT: Tech Commercialization
EIF DATE: 02/25/86 TERM DATE: 02/25/91
REMARKS: Through Technology Administration. Modeled after Israel BIRD and India PACT agreements. Progressing satisfactorily 27 joint ventures to date. Funding not specified.

AGENCY: DOC (CENSUS)
COUNTRY: Canada
SUBJECT: Statistics
EIF DATE: 03/27/86 TERM DATE: 03/27/91
REMARKS: Ongoing. MOU recognizes long-standing informal cooperation and provides for its continuation, like exchange visits, and joint study and research. MOU agrees to monthly exchange of import data to replace bilateral export statistics with counterpart import statistics beginning January 1990. Funding not specified.

AGENCY: DOC (CENSUS)
COUNTRY: Canada
SUBJECT: Statistics
EIF DATE: 07/29/87 TERM DATE:
REMARKS: MOU agrees to monthly exchange of import data to replace bilateral export statistics with counterpart import statistics beginning January 1990. Funding not specified. On-going agreement.

AGENCY: DOC (CENSUS)
COUNTRY: China
SUBJECT: Statistics
EIF DATE: 07/24/84 TERM DATE: 05/22/96
REMARKS: Low level activity consisting primarily of Chinese delegations to the U.S.; we taught one workshop in China in 1991. Funding not specified.

AGENCY: DOC (CENSUS)
COUNTRY: Mexico
SUBJECT: Statistics
EIF DATE: 03/27/86 TERM DATE: 03/27/91
REMARKS: Activity level: Low end of moderate. This cooperation agreement provides for exchange of methodology, documents, information. No Funding.

AGENCY: DOC (NIST)
COUNTRY: Canada
SUBJECT: Basic Sciences
EIF DATE: 09/20/88 TERM DATE: 09/20/93
REMARKS: Action is in support of NIST statutory mission to collect, evaluate, and publish standard reference scientific data. Agreement states NIST owns database and specifies royalties for use to be paid to NIST. Funding not specified.

AGENCY: DOC (NIST)
COUNTRY: China
SUBJECT: S&T Information
EIF DATE: 04/30/84 TERM DATE: 04/30/94
REMARKS: Access, provision of S&T report literature. Funding not specified.

AGENCY: DOC (NIST)
COUNTRY: China
SUBJECT: Metrology
EIF DATE: 01/01/79 TERM DATE: 05/01/89
REMARKS: Active while in process of renewal. Joint studies are in metrology, standards (including engineering standards), and related applied sciences; temperature, electrical, optical, length, mass, and time measurements and standards. Funding not specified.

AGENCY: DOC (NIST)
COUNTRY: France
SUBJECT: Engineering
EIF DATE: 12/31/86 TERM DATE: 12/31/91
REMARKS: This is the fourth five-year joint program of research in building technology under an understanding signed in 1969 by the Science Advisor to the President. Cooperation in building technology; joint research and exchanges. Funding not specified.

AGENCY: DOC (NIST)
COUNTRY: Hungary
SUBJECT: Metrology
EIF DATE: 04/01/77 TERM DATE:
REMARKS: Implementing arrangement under Articles II & III of the Agreement on Cooperation in Culture, Education, Science, and Technology signed April 6, 1977. Provides for short-term exchange of scientists, extended visits with Hungarian Office of Measures. Funding not specified.

AGENCY: DOC (NIST)
COUNTRY: Hungary
SUBJECT: Basic & Applied Sci.
EIF DATE: 10/04/89 TERM DATE: 10/04/94
REMARKS: Projects conducted under the umbrella US-Hungary S&T agreement; presently 5 projects with several institutions have been funded on a 50-50 arrangement.

AGENCY: DOC (NIST)
COUNTRY: Hungary
SUBJECT: Metrology
EIF DATE: 11/22/84 TERM DATE:
REMARKS: Implementing arrangement under Articles II & III of the Agreement on Cooperation in Culture, Education, Science, and Technology signed April 6, 1977. Provides for short-term exchange of scientists, extended visits with Research Institute for Technical Physics. Funding not specified.

AGENCY: DOC (NIST)
COUNTRY: India
SUBJECT: Basic Sciences
EIF DATE: 10/28/74 TERM DATE:
REMARKS: Termination date: Indefinite. Cooperation through U.S.-Indo Joint Commission; projects approved after 10/89 are subject to IPR requirements. Includes projects in materials and physical sciences in cooperation with 20 Indian institutions. Funding not specified.

AGENCY: DOC (NIST)
COUNTRY: Japan
SUBJECT: Basic & Applied Sci.
EIF DATE: 09/14/89 TERM DATE: 09/13/94
REMARKS: MOU Agreement is with the Nippon Telegraph & Telephone Corporation which is a private corporation; joint research on semiconductors, telecommunications, computers and computer networking, time and frequency measurements, and related fields. Funding not specified.

AGENCY: DOC (NIST)
COUNTRY: Korea
SUBJECT: Metrology
EIF DATE: 06/01/86 TERM DATE: 06/01/89
REMARKS: Active while renewal underway; agreement with K. Standards Research Institute to improve knowledge and engineering practices in measuring mechanical properties of materials at low temperatures; low pressure measurement techniques. Funding not specified.

AGENCY: DOC (NIST)
COUNTRY: Mexico
SUBJECT: Basic & Applied Sci.
EIF DATE: 10/27/91 TERM DATE: 10/17/96
REMARKS: Umbrella agreement with National Science Foundation and Mexican Department of Commerce and Industrial Development for cooperation in engineering, chemistry, physics, and measurement sciences. Funding not specified.

AGENCY: DOC (NIST)
COUNTRY: Multilateral
SUBJECT: Materials Science
EIF DATE: 05/01/87 TERM DATE: 04/30/92
REMARKS: International accord with France, UK, Italy, Canada, Japan, Germany, and Commission of European Communities; participation in the Versailles Project on Advanced Materials (VAMAS); NIST represents U.S.; cooperation deals with pre-standards measurements. Funding not specified.

AGENCY: DOC (NIST)
COUNTRY: Poland
SUBJECT: Basic & Applied Sci.
EIF DATE: 09/29/87 TERM DATE: 09/28/92
REMARKS: NIST is one of several U.S. technical agencies cooperating under U.S.-Polish agreement for S&T cooperation. The Maria Sklodowska-Curie Fund is established as the funding vehicle; 14 active programs in FY91.

AGENCY: DOC (NIST)
COUNTRY: Taiwan
SUBJECT: Metrology
EIF DATE: 01/01/87 TERM DATE: 01/01/93
REMARKS: MOU with the American Institute in Taiwan under Cooperative Science Agreement between the U.S. and Taiwan signed September 4, 1980. Funding not specified.

AGENCY: DOC (NIST)
COUNTRY: USSR
SUBJECT: Basic & Applied Science
EIF DATE: 05/13/91 TERM DATE: 05/13/96
REMARKS: MOU with Soviet Academy of Sciences regarding cooperation on physical chemistry and engineering sciences. Funding not specified.

AGENCY: DOC (NIST)
COUNTRY: Venezuela
SUBJECT: Basic & Applied Sci.
EIF DATE: 10/26/91 TERM DATE: 10/26/96
REMARKS: Umbrella agreement with National Science Foundation and Venezuelan Department of Development for cooperation in engineering, chemistry, physics, and measurement sciences. Funding not specified.

AGENCY: DOC (NIST)
COUNTRY: Yugoslavia
SUBJECT: Basic & Applied Science
EIF DATE: 06/27/88 TERM DATE: 06/26/93
REMARKS: Projects conducted under the umbrella S&T agreement; in FY91 46 active projects with Yugoslav institutions covering a wide range of mutual interests. Funding not specified.

AGENCY: DOC (NOAA)
COUNTRY: Argentina
SUBJECT: Space Technologies
EIF DATE: 09/24/84 TERM DATE:
REMARKS: Termination date: Indefinite. Direct reception and distribution of Landsat data at Landsat ground station; extends through life of Landsat-4 and Landsat-5. No U.S. funding.

AGENCY: DOC (NOAA)
COUNTRY: Australia
SUBJECT: Space Technologies
EIF DATE: 03/13/84 TERM DATE:
REMARKS: Direct reception and distribution of Landsat data at Landsat ground station; extends through the life of Landsat-4 and Landsat-5. No U.S. funding.

AGENCY: DOC (NOAA)
COUNTRY: Brazil
SUBJECT: Space Technologies
EIF DATE: 05/05/84 TERM DATE:
REMARKS: Direct reception and distribution of Landsat data at Landsat ground station; extends through the life of Landsat-4 and Landsat-5. No U.S. funding.

AGENCY: DOC (NOAA)
COUNTRY: Canada
SUBJECT: Space Technologies
EIF DATE: 07/26/84 TERM DATE:
REMARKS: Direct reception and distribution of Landsat data at
Landsat ground station; extends through the life of Landsat-4 and
Landsat-5. No U.S. funding.

AGENCY: DOC (NOAA)
COUNTRY: Canada
SUBJECT: Atmospheric Science
EIF DATE: 06/28/85 TERM DATE: 09/27/95
REMARKS: MOU to improve climate cooperation and coordination:
current projects include development of programs to address
climate change and impact on the Great Lakes region of North
America and on the High Plains region of North America. Funding
not specified.

AGENCY: DOC (NOAA)
COUNTRY: China
SUBJECT: Atmospheric Science
EIF DATE: 05/08/79 TERM DATE: 05/08/94
REMARKS: Protocol on Cooperation in Atmospheric S&T; joint
meteorologic studies; training, other participating agencies-
NSF, NASA, USDA. Chinese- CAS, National Natural Science
Foundation, Ministry of Education; State Meteorological
Administration. Funding not specified.

AGENCY: DOC (NOAA)
COUNTRY: China
SUBJECT: Fisheries
EIF DATE: 11/19/85 TERM DATE: 07/01/92
REMARKS: Governing International Fishery Agreements established
on a bilateral basis, conditions under which foreign fishing
vessels are granted access to fishery resources within the U.S.
Exclusive Economic Zone, including fees for processing permits
and support for observer program.

AGENCY: DOC (NOAA)
COUNTRY: China
SUBJECT: Space Technologies
EIF DATE: 07/08/85 TERM DATE:
REMARKS: Direct reception and distribution of Landsat data at
Landsat ground station; extends through the life of Landsat-4 and
Landsat-5. No U.S. funding.

AGENCY: DOC (NOAA)
COUNTRY: China
SUBJECT: Marine/Fishery S&T
EIF DATE: 05/08/79 TERM DATE: 05/09/94
REMARKS: Protocol on Cooperation in Field of Marine and Fisheries S&T is framework for: information exchange, collaborative research (TOGA), and training (scientific training and data management). Other participants: NSF, ONR, academia. China: CAS, Ministry of Agriculture, State Oceanic Administration (SOA), State Meteorological Administration (SMA). Funding not specified.

AGENCY: DOC (NOAA)
COUNTRY: Denmark (Faroes)
SUBJECT: Fisheries
EIF DATE: 01/18/80 TERM DATE: 07/01/91
REMARKS: Governing International Fishery Agreements established on a bilateral basis, conditions under which foreign fishing vessels are granted access to fishery resources within the U.S. Exclusive Economic Zone, including fees for processing permits and support for observer program.

AGENCY: DOC (NOAA)
COUNTRY: European Community
SUBJECT: Fisheries
EIF DATE: 06/09/77 TERM DATE: 07/31/91
REMARKS: Extension of agreement proposed. Governing International Fishery Agreements established on a bilateral basis, conditions under which foreign fishing vessels are granted access to fishery resources within the U.S. Exclusive Economic Zone, including fees for processing permits and support for observer program.

AGENCY: DOC (NOAA)
COUNTRY: France
SUBJECT: Marine Science
EIF DATE: 11/01/69 TERM DATE:
REMARKS: U.S.-France Cooperation in Oceanography: joint multidisciplinary oceanographic research; information and data exchanges. Funding not specified.

AGENCY: DOC (NOAA)
COUNTRY: France
SUBJECT: Space Technologies
EIF DATE: 03/20/86 TERM DATE:
REMARKS: France provides onboard data collection system flown on NOAA polar-orbiting satellite; France also provides the data processing system for ARGOS. Funding not specified.

AGENCY: DOC (NOAA)
COUNTRY: Iceland
SUBJECT: Fisheries
EIF DATE: 11/16/84 TERM DATE: 12/31/93
REMARKS: Governing International Fishery Agreements established on a bilateral basis, conditions under which foreign fishing vessels are granted access to fishery resources within the U.S. Exclusive Economic Zone, including fees for processing permits and support for observer program.

AGENCY: DOC (NOAA)
COUNTRY: India
SUBJECT: Space Technologies
EIF DATE: 10/26/84 TERM DATE: 07/31/92
REMARKS: Direct reception and distribution of Landsat data at Landsat ground station; extends through the life of Landsat-4 and Landsat-5. No U.S. funding.

AGENCY: DOC (NOAA)
COUNTRY: Israel
SUBJECT: Marine Science
EIF DATE: 06/05/89 TERM DATE: 06/05/94
REMARKS: MOU for marine and freshwater cooperation. Funding not specified.

AGENCY: DOC (NOAA)
COUNTRY: Japan
SUBJECT: Marine Science
EIF DATE: 01/01/64 TERM DATE:
REMARKS: US-Japan Cooperative Program in Natural Resources: Joint multidisciplinary research projects; information and data exchange panels coordinated through STA (Science and Technology Agency) in Japan, and DOC/NOAA in the U.S. 16 panels: Aquaculture; Diving Physiology and Technology; Marine Facilities; Marine Geology; Marine Instrumentation and Communications; Marine Mining; Sea Bottom Surveys; Conservation, Recreation, and Parks; Earthquake Prediction Technology; Fire Research and Safety; Forage and Seeds; Forestry; Mycoplasmosis; Protein Resources; Toxic Micro-Organisms; Wind and Seismic Effects. Termination date: Indefinite. Funding not specified.

AGENCY: DOC (NOAA)
COUNTRY: Japan
SUBJECT: Space Technologies
EIF DATE: 08/11/83 TERM DATE:
REMARKS: Direct reception and distribution of Landsat data at Landsat ground station; extends through the life of Landsat-4 and Landsat-5. The agreement will continue in force as long as NOAA retains control of Landsat data. No U.S. funding.

AGENCY: DOC (NOAA)
COUNTRY: Japan
SUBJECT: Fisheries
EIF DATE: 11/29/77 TERM DATE: 12/31/91
REMARKS: Governing International Fishery Agreements established on a bilateral basis, conditions under which foreign fishing vessels are granted access to fishery resources within the U.S. Exclusive Economic Zone, including fees for processing permits and support for observer program.

AGENCY: DOC (NOAA)
COUNTRY: Korea
SUBJECT: Fisheries
EIF DATE: 03/03/77 TERM DATE: 12/31/93
REMARKS: Governing International Fishery Agreements established on a bilateral basis, conditions under which foreign fishing vessels are granted access to fishery resources within the U.S. Exclusive Economic Zone, including fees for processing permits and support for observer program.

AGENCY: DOC (NOAA)
COUNTRY: Mexico
SUBJECT: Fisheries (Pacific)
EIF DATE: 11/19/86 TERM DATE: 11/30/89
REMARKS: A MOU for cooperative research on shared resources in the Pacific and for the exchange of scientific information and cooperative research in the fisheries sector; efforts to renew up to 11/30/94 are underway. Funding not specified.

AGENCY: DOC (NOAA)
COUNTRY: Mexico
SUBJECT: Fisheries (Gulf)
EIF DATE: 11/19/86 TERM DATE: 11/30/89
REMARKS: A MOU for cooperative research on shared resources in the Gulf of Mexico for the exchange of scientific information and cooperative research on the fisheries sector; efforts to renew up to 11/30/94 are underway. Funding not specified.

AGENCY: DOC (NOAA)
COUNTRY: Mexico
SUBJECT: Fisheries
EIF DATE: 06/24/88 TERM DATE: 11/30/89
REMARKS: A MOU for the exchange of scientific and economic data and information on the fisheries sector; efforts to renew up to 11/30/94 are underway. Funding not specified.

AGENCY: DOC (NOAA)
COUNTRY: Multilateral
SUBJECT: Space Technologies
EIF DATE: 09/01/88 TERM DATE:
REMARKS: Search and Rescue Satellite System; 15 year agreement including the U.S., the USSR, France and Canada. Funding not specified.

AGENCY: DOC (NOAA)
COUNTRY: Multilateral (ESA)
SUBJECT: Space Technologies
EIF DATE: 02/23/84 TERM DATE:
REMARKS: Direct reception and distribution of Landsat data at Landsat ground station; extends through the life of Landsat-4 and Landsat-5. No U.S. funding.

AGENCY: DOC (NOAA)
COUNTRY: Pakistan
SUBJECT: Space Technologies
EIF DATE: 11/26/84 TERM DATE: 07/31/92
REMARKS: Direct reception and distribution of Landsat data at Landsat ground station; extends through the life of Landsat-4 and Landsat-5. No U.S. funding.

AGENCY: DOC (NOAA)
COUNTRY: Poland
SUBJECT: Fisheries
EIF DATE: 02/28/77 TERM DATE: 12/01/93
REMARKS: Governing International Fishery Agreements established on a bilateral basis, conditions under which foreign fishing vessels are granted access to fishery resources within the U.S. Exclusive Economic Zone, including fees for processing permits and support for observer program.

AGENCY: DOC (NOAA)
COUNTRY: Saudi Arabia
SUBJECT: Atmospheric Sciences
EIF DATE: 02/13/75 TERM DATE: 09/25/95
REMARKS: Technical Cooperation Agreement; cooperation in integrating Saudi meteorological services and supporting research programs. Funds not specified.

AGENCY: DOC (NOAA)
COUNTRY: Saudi Arabia
SUBJECT: Space Technologies
EIF DATE: 09/25/84 TERM DATE:
REMARKS: Direct reception and distribution of Landsat data at
Landsat ground station; extends through the life of Landsat-4 and
Landsat-5. No U.S. funding.

AGENCY: DOC (NOAA)
COUNTRY: South Africa
SUBJECT: Space Technologies
EIF DATE: 10/19/83 TERM DATE:
REMARKS: Direct reception and distribution of Landsat data at
Landsat ground station; extends through the life of Landsat-4 and
Landsat-5. No U.S. funding.

AGENCY: DOC (NOAA)
COUNTRY: Taiwan
SUBJECT: Geodesy
EIF DATE: 02/21/91 TERM DATE:
REMARKS: Termination date: Indefinite. This agreement between
NOAA and AIT facilitates training, shared technical expertise,
and scientific exchange activities on a reimbursable basis for
geodesy and the use of advanced geodetic technology such as
absolute gravity measurements relevant to global
change.

AGENCY: DOC (NOAA)
COUNTRY: Taiwan
SUBJECT: Meteorology
EIF DATE: 06/28/90 TERM DATE: 06/27/95
REMARKS: This 5 year agreement transfers NOAA NOWCAST technology
to Taiwan for improved forecasts, enables NOAA to test the
NOWCAST under different meteorological conditions and secures
standardization of weather forecast technology with the U.S.
Funding not specified.

AGENCY: DOC (NOAA)
COUNTRY: Thailand
SUBJECT: Space Technologies
EIF DATE: 09/18/85 TERM DATE:
REMARKS: Direct reception and distribution of Landsat data at
Landsat ground station; extends through the life of Landsat-4 and
Landsat-5. No U.S. funding.

AGENCY: DOC (NOAA)
COUNTRY: United Kingdom
SUBJECT: Space Technologies
EIF DATE: 02/14/86 TERM DATE: 02/14/94
REMARKS: United Kingdom will provide an Advanced Microwave Sounding Unit (AMSU) for flight on future NOAA spacecraft. Funding not specified.

AGENCY: DOC (NOAA)
COUNTRY: USSR
SUBJECT: Fisheries
EIF DATE: 05/31/88 TERM DATE: 05/31/93
REMARKS: Reciprocal Governing International Fishery Agreement established on a bilateral basis which sets conditions under which foreign fishing vessels are granted access to fishery resources within the U.S. EEZ (and vice versa), including fees for processing permits and support for observer program.

AGENCY: DOC (NOAA)
COUNTRY: USSR
SUBJECT: Marine Science
EIF DATE: 06/01/90 TERM DATE: 05/31/95
REMARKS: Oceans Studies Agreement signed by Secretary of State Baker and Foreign Minister Schevardnadze. Replaces 1973 Studies of the World Oceans Agreement. Provides for cooperation in physical oceanography; chemical and biological oceanography; geological, geophysical and geochemical investigations of oceans and coastal regions; biological productivity of functioning of oceanic biological communities; and marine meteorology. Includes USGS MOU. Funding not specified.

AGENCY: DOC (NOAA)
COUNTRY: USSR
SUBJECT: Atmospheric Science
EIF DATE: 05/23/72 TERM DATE: 05/01/92
REMARKS: Agreement on Cooperation in the Field of Environment Protection: exchange of scientists, information exchange, and joint research on influence of environmental change on climate, in particular, global climate change studies. Funding not specified.

AGENCY: DOC (NTIS)
COUNTRY: China
SUBJECT: Telecommunications
EIF DATE: 05/16/86 TERM DATE: 05/16/91
REMARKS: Cooperation with PRC Ministry of Posts and Telecommunications. Under renegotiation; renewal expected.

AGENCY: DOC (NTIS)
COUNTRY: China
SUBJECT: S&T Information
EIF DATE: 05/19/90 TERM DATE: 04/30/96
REMARKS: Protocol's termination date: indefinite. Information exchange. Funding not specified.

AGENCY: DOC (NTIS)
COUNTRY: Finland
SUBJECT: S&T Information
EIF DATE: 10/01/90 TERM DATE: 12/01/92
REMARKS: Information exchange. Funding not specified.

AGENCY: DOC (NTIS)
COUNTRY: France
SUBJECT: S&T Information
EIF DATE: 04/01/84 TERM DATE: 12/03/91
REMARKS: Information exchange. Funding not specified.

AGENCY: DOC (NTIS)
COUNTRY: Germany
SUBJECT: S&T Information
EIF DATE: 01/01/90 TERM DATE: 06/30/92
REMARKS: Information Exchange. Funding not specified.

AGENCY: DOC (NTIS)
COUNTRY: Sweden
SUBJECT: S&T Information
EIF DATE: 11/01/90 TERM DATE: 12/31/92
REMARKS: Information exchange. Funding not specified.

AGENCY: DOC (NTIS)
COUNTRY: Taiwan
SUBJECT: S&T Information
EIF DATE: 11/17/87 TERM DATE:
REMARKS: Termination date: indefinite, unless one of the parties gives 6-mos. notice. Information exchange. Funding not specified.

AGENCY: DOC (NTIS)
COUNTRY: United Kingdom
SUBJECT: S&T Information
EIF DATE: 01/01/82 TERM DATE:
REMARKS: Termination date: Indefinite. Information exchange. Funding not specified.

AGENCY: DOC (NTIS)

COUNTRY: USSR

SUBJECT: S&T Information

EIF DATE: 01/01/91

TERM DATE: 12/31/94

REMARKS: Termination date: Indefinite. Information exchange.
Funding not specified.

DEPARTMENT OF DEFENSE

AGENCY: DOD
COUNTRY: Australia
SUBJECT: Technical R&D
EIF DATE: 03/14/90 TERM DATE:
REMARKS: Cooperative R&D agreement of unspecified termination date. Demonstration of two allied communication networks interoperating on an automatic cooperative basis; and the demonstration of allied computer networks working in a cooperative way to perform distributed command and control functions. Funding not specified.

AGENCY: DOD
COUNTRY: Brazil
SUBJECT: Space Research
EIF DATE: 08/02/90 TERM DATE: 05/01/95
REMARKS: Agreement between the Defense Mapping Agency and the Brazilian Geographic and Statistics Institute (IBGE) for operation of a satellite station to collect geodetic and geophysical data. Funding not specified.

AGENCY: DOD
COUNTRY: Canada
SUBJECT: Technical R&D
EIF DATE: 03/30/90 TERM DATE:
REMARKS: Cooperative R&D agreement of unspecified termination date. The APG-73 project will update three parts of APG-65 radar: Receiver-Exciter, Radar Data Processor, and Radar Signal Processor. Memory, throughput, and speed will all be improved, giving radar growth potential in ECCM capability. Australia and Germany expressed interest in some future date. Funded with Nunn Amendment.

AGENCY: DOD
COUNTRY: France
SUBJECT: Technical R&D
EIF DATE: 09/28/88 TERM DATE:
REMARKS: Cooperative R&D agreement of unspecified termination date. Laser Standoff Chemical Detector for NBC reconnaissance vehicles (ground/air) 3-5KM range, able to quickly map terrain, showing type, location and concentration of contaminant. France uses laser power and improves their vapor algorithm and the US emphasizes aerosol and surface algorithm development. Funded with Nunn Amendment.

AGENCY: DOD
COUNTRY: France
SUBJECT: Technical R&D
EIF DATE: 12/04/90 TERM DATE:
REMARKS: Cooperative R&D agreement of unspecified termination date. Three-phased development effort to provide a non-acoustic expendable sonobuoy using a Nuclear Magnetic Resonance (NMR) Sensor. Funded with Nunn Amendment.

AGENCY: DOD
COUNTRY: France
SUBJECT: Technical R&D
EIF DATE: 12/04/90 TERM DATE:
REMARKS: Cooperative R&D agreement of unspecified termination date. To develop, test and evaluate a Closed-Loop Degaussing system that will automatically monitor and reduce static magnetic signature through on-board magnetic field sensors, degaussing electrical controller hardware. and control algorithms/software. Estimated that development will be completed in six years. Laboratory model will be tested first; full-scale prototype system will be designed, installed and tested on a dedicated US Navy MCM vessel. Funded with Nunn Amendment.

AGENCY: DOD
COUNTRY: Germany
SUBJECT: Technical R&D
EIF DATE: 06/23/88 TERM DATE:
REMARKS: Cooperative R&D agreement of unspecified termination date. MOU with Germany. Electro-Optic Countermeasures Systems- an initial side-by-side demonstration of US and UK systems, and technical data exchange to explore feasibility of incorporating some of the UK design features to increase the capability of US systems (Cameo, Blue Jay, Stingray, Coronet Prince.) Funded with Nunn Amendment.

AGENCY: DOD
COUNTRY: Germany
SUBJECT: Technical R&D
EIF DATE: 05/17/89 TERM DATE:
REMARKS: Multi-Mode Seeker Demonstration (MMSD), also called Multi-Mode Seeker portion of the Extended Air Defense agreement. The development of an advanced missile to counter tactical ballistic missiles (TBMs), by integrating advanced G&C, warhead, Fuze, and C3I into the existing Patriot Missile System. Modification to the Raytheon TBMs contract was completed and signed in December 1990. Hardware and software development is to integrate an active seeker component for incorporation into the missile forebody flight. Funding and termination date not specified.

AGENCY: DOD
COUNTRY: Germany
SUBJECT: Technical R&D
EIF DATE: 08/03/87 TERM DATE:
REMARKS: Cooperative R&D agreement of unspecified termination date. Improvements on the RIM-116A (an element of the MK-31 RAM Guided Missile Weapon System) that will improve the guidance by developing an IR-all-the-way capability. In addition, modification to the MK-20 Active Optical Target Detector will greatly improve the RAM low altitude fuze performance. The improved missile will counter targets not engageable by the baseline system. Funded with Nunn Amendment.

AGENCY: DOD
COUNTRY: Germany
SUBJECT: Technical R&D
EIF DATE: TERM DATE:
REMARKS: Cooperative R&D agreement of unspecified entry into force and terminate dates. The MOU allows for the building of an Enhanced Fighter Maneuverability Demonstrator (X31) to increase fighter aircraft agility and improve close in exchange ratios. First aircraft rolled out March 1990. First flight in Spring 1990. A second aircraft is complete. Funded with Nunn Amendment.

AGENCY: DOD
COUNTRY: Germany
SUBJECT: Technical R&D
EIF DATE: 06/01/90 TERM DATE:
REMARKS: Cooperative R&D agreement with unspecified termination date. Experiment is designed to explore the use of Synthetic Aperture Radar (SAR) for ocean surface imaging. Effort will enhance both participants' understanding of the potential for SAR to improve the ASW capability of each nation. Funded with Nunn Amendment.

AGENCY: DOD
COUNTRY: Germany
SUBJECT: Technical R&D
EIF DATE: 02/07/91 TERM DATE:
REMARKS: Cooperative R&D agreement of unspecified termination date. To develop and evaluate a limited selection of CORPS Surface-to-Air-Missile/Medium Surface-to-Air Missile (CORPS SAM/MSAM) options for operation to defend against both aircraft and tactical missiles. Involves the evaluation of technologies and system concepts, and assessment of air defense capabilities. Germany's Federal Ministry of Defence Armaments Director and US Under Secretary of Defense for Acquisition jointly agreed to explore cooperation in this area. Funded with Nunn Amendment.

AGENCY: DOD
COUNTRY: India
SUBJECT: Natural Resources
EIF DATE: 05/04/84 TERM DATE: 03/31/91
REMARKS: Investigate marine flora & fauna from Indian Ocean region as sources for eventual chemicals and drugs. Only marine science field research program between the U.S. and India. Technical supervisory committee meets annually. Funding: 28,606,120 Rupees.

AGENCY: DOD
COUNTRY: Israel
SUBJECT: Defense Cooperation
EIF DATE: 12/14/87 TERM DATE: 12/13/97
REMARKS: MOU between Israel and the U.S. concerning the principles governing mutual cooperation in R&D, scientist and engineer exchange, and procurement and logistic support of defense equipment. Funding not specified.

AGENCY: DOD
COUNTRY: Japan
SUBJECT: Technology Transfer
EIF DATE: 03/08/54 TERM DATE: 03/08/97
REMARKS: Mutual defense assistance agreement is basis for activities of Embassy's mutual defense assistance office and for later agreements for the transfer of technology. This DOD umbrella agreement includes the safeguard of classified material and cooperative R&D programs. Renewable every 10 yrs automatically, unless either party declines. Funding not specified.

AGENCY: DOD
COUNTRY: Japan
SUBJECT: Technology Transfer
EIF DATE: 01/01/85 TERM DATE:
REMARKS: Termination date: indefinite. DOD umbrella agreement allowed for 3 agreements regarding Japanese military technology to be transferred to the U.S.--2 were shipbuilding-related technologies, 1 dealt with the Keiko-SAM missile (not transferred due to restrictions with Toshiba), 1 dealt with FSX technology. Funding not specified.

AGENCY: DOD
COUNTRY: Korea
SUBJECT: Technical R&D
EIF DATE: 11/26/90 TERM DATE:
REMARKS: Cooperative R&D agreement of unspecified termination date. Program will provide acoustic and magnetic environmental

measurements of 7 South Korean harbors and approaches leading to development of a harbor/coastal defense system. Project was initiated on 01/14/91. Funded with Nunn Amendment.

AGENCY: DOD
COUNTRY: Multilateral
SUBJECT: Technical R&D
EIF DATE: 08/01/86 TERM DATE:
REMARKS: Cooperative R&D agreement of unspecified termination date. Countries involved: France, United Kingdom, and the U.S. ARDS (Airborne Radar Demonstration System) program to demonstrate interoperability of UK's ASTOR airborne component and France's ORCHIDEE system with US Army's ground station component of JSTARS. Funded with Nunn Amendment.

AGENCY: DOD
COUNTRY: Multilateral
SUBJECT: Technical R&D
EIF DATE: 09/12/88 TERM DATE:
REMARKS: Cooperative R&D agreement of unspecified termination date. Countries involved: Germany, United Kingdom, and the U.S. CVC2-Combat Vehicle Command and Control. Technology development to provide embedded C2 and cockpit automation for ground combat vehicles under the Battlefield Management System (BMS) umbrella concept for M1A1 and Leopard 2. Focus on combat vehicles at battalion level. Provides capability for reporting locations/situations assessment, coordinating attack maneuvers, targeting, etc. Funded with Nunn Amendment.

AGENCY: DOD
COUNTRY: Multilateral
SUBJECT: Technical R&D
EIF DATE: 05/16/90 TERM DATE:
REMARKS: Cooperative R&D agreement of unspecified termination date. Future Tank Main Armament (FTMA) cooperative effort is intended to enable multinational development of future tank main armament capable of over-matching the threat projected for the year 2000 and beyond. The effort is based on solid propellant technology and employs a 140mm caliber gun. Countries involved: France, Germany, United Kingdom, and the U.S. Funded with Nunn Amendment.

AGENCY: DOD
COUNTRY: Multilateral
SUBJECT: Technical R&D
EIF DATE: 09/01/90 TERM DATE:
REMARKS: Cooperative R&D agreement of unspecified termination date. Countries involved: Italy, Spain, the U.S. AV-8B Radar Integration to provide US Marine Corps and allies with air-to-air capabilities. Funded with Nunn Amendment.

AGENCY: DOD
COUNTRY: Multilateral
SUBJECT: Technical R&D
EIF DATE: 06/21/88 TERM DATE:
REMARKS: Cooperative R&D agreement of unspecified termination date. MOU signed with Norway 06/21/88; with the United Kingdom 05/05/89. Classified annexes to both MOUs in work. Two bilateral MOUs (United Kingdom and Norway) with the U.S. entered to conduct research into electro-magnetic and optical sensors to detect submarines or their signatures in the ocean with emphasis on radar and laser. In the FY91 Appropriations Congress directed OSD to take over management of programs from DARPA. Similar program with Germany called SAXON under control of U.S. Navy. Funded with Nunn Amendment.

AGENCY: DOD
COUNTRY: Multilateral
SUBJECT: Technical R&D
EIF DATE: 03/15/89 TERM DATE:
REMARKS: Cooperative R&D agreement of unspecified termination date. Countries involved: France, Germany, the Netherlands, Norway, Spain, the United Kingdom, and the U.S. This program will create NATO procedural and technical interface standards for data systems and their supporting communication systems (E.G., MIDS, JTIDS, BICES). Funded with Nunn Amendment.

AGENCY: DOD
COUNTRY: Multilateral
SUBJECT: Technical R&D
EIF DATE: 07/06/88 TERM DATE:
REMARKS: Cooperative R&D agreement of unspecified termination date. Countries involved: Canada, France, Italy, Germany, the United Kingdom, the Netherlands, Norway, Spain, and the U.S. Concerns a tactical communications system designed to common standards to meet the requirement for the land combat zone-post 2000. Funded with Nunn Amendment.

AGENCY: DOD
COUNTRY: Multilateral
SUBJECT: Technical R&D
EIF DATE: 07/18/88 TERM DATE:
REMARKS: Cooperative R&D agreement of unspecified termination date. Countries involved: Portugal, Spain, the United Kingdom, and the U.S. It provides NATO and U.S. operating commanders with common, current, and dynamic pictures of enemy dispositions. Combines communication and intelligence systems (an umbrella of systems) for integration into ACE ACCIS. Connected to NMOS and ACCES. Funded with Nunn Amendment.

AGENCY: DOD
COUNTRY: Multilateral
SUBJECT: Technical R&D
EIF DATE: TERM DATE:
REMARKS: Cooperative R&D agreement with unspecified termination date. MOA signed with Germany 04/89, and with France 02/91. Exploratory and/or prefeasibility development of an engine to demonstrate the next generation of ducted rocket technology for medium range air-to-air missiles. Funded with Nunn Amendment.

AGENCY: DOD
COUNTRY: Multilateral
SUBJECT: Technical R&D
EIF DATE: 04/01/80 TERM DATE:
REMARKS: Cooperative R&D agreement of unspecified termination date. A lightweight, automatic detector samples, detects and classifies chemical and biological hazards in the air and on surfaces. Represents first field biological agent detection capability within NATO. Countries involved: Canada, United Kingdom, and the U.S. Funded with Nunn Amendment.

AGENCY: DOD
COUNTRY: Multilateral
SUBJECT: Technical R&D
EIF DATE: TERM DATE:
REMARKS: Cooperative R&D agreement with unspecified termination date. MOU signed with France 9/24/88; signed with Germany 7/3/90. This MOU encompasses 2 bilateral projects. Development of 32-and 16-bit processing modules, high speed data bus modules, a video processing module and system couplers. Funded with Nunn Amendment.

AGENCY: DOD
COUNTRY: Multilateral
SUBJECT: Technical R&D
EIF DATE: 12/01/86 TERM DATE:
REMARKS: Cooperative R&D agreement with unspecified termination date. Countries involved: France, Germany, Italy, Spain, and the U.S.; Italy joined the others in 07/14/87. MIDS - Multi-Functional Information Distribution Systems program to design, develop, and build a smaller, lighter, lower cost terminal, functionally equivalent to the JTIDS class 2 terminals. Display system to be installed on US F/A-18, EFA, and Rafale. Program transitioned from Air Force to Navy. Funded with Nunn Amendment.

AGENCY: DOD
COUNTRY: Multilateral
SUBJECT: Technical R&D
EIF DATE: 05/26/88 TERM DATE:
REMARKS: Cooperative R&D agreement of unspecified termination date. Countries involved: Belgium, Denmark, the Netherlands, Norway, and the U.S. Program objective is to do preliminary design of an aircraft to complement the ATF, meet the mid-1990s threat, and meet the EPGs need for a follow-on fighter. It will also continue to encourage NATO cooperation and interoperability through the existing structure developed under the F-16 MOU. Funded with Nunn Amendment.

AGENCY: DOD
COUNTRY: Multilateral
SUBJECT: Technical R&D
EIF DATE: TERM DATE:
REMARKS: Cooperative R&D agreement of unspecified termination date. Concerns JSTARS (Joint Surveillance Target Attack Radar System) Interoperability - SORPROS and SIDL. SORPROS (Stand Off Radar Program Studies) is to assess the impact of stand off radar in a modern battlefield environment through increased European participation in such cooperative studies; SORPROS MOU signed 12/15/88. SIDL (SOSTAS Interoperable Data Link) produces a system specification for a common data link in accordance with the Joint NATO Staff Target; SIDL MOU signed 03/23/89. Countries involved: France, Italy, United Kingdom, and the U.S. Funded with Nunn Amendment.

AGENCY: DOD
COUNTRY: Multilateral
SUBJECT: Technical R&D
EIF DATE: TERM DATE:
REMARKS: Cooperative R&D agreement of unspecified termination date. MOU signed by Canada and Denmark 11/26/86; MOU with France, Germany, Italy, the Netherlands, Norway, Spain, and the United Kingdom will become effective upon signature. This MOU uses the common ADA programming support environment interface set on the foundation for APSE that will support transportability of data, and the reduction of software lifecycle costs. Active involvement of all participants. Funded with Nunn Amendment.

AGENCY: DOD
COUNTRY: Multilateral
SUBJECT: Technical R&D
EIF DATE: TERM DATE:
REMARKS: Cooperative R&D agreement of unspecified termination date. MOU signed with France signed 2/16/86; with Germany 1/11/90; and with the United Kingdom 1/21/89. This is a compilation of 3 separate projects: 1) Advanced Armor Protection Systems, 2) Reactive Armor, and 3) Tandem Warheads

Armor/Anti-Armor Chemical Energy Warheads. Funded with Nunn Amendment.

AGENCY: DOD
COUNTRY: Netherlands (The)
SUBJECT: Technical R&D
EIF DATE: 06/19/87 TERM DATE:
REMARKS: Cooperative R&D agreement of unspecified termination date. Hawk Mobility Enhancement (HME) developing a new manipulator for transferring missiles to the launcher and increasing transport capabilities. Funded with Nunn Amendment.

AGENCY: DOD
COUNTRY: Norway
SUBJECT: Technical R&D
EIF DATE: 03/01/91 TERM DATE:
REMARKS: Cooperative R&D agreement of unspecified termination date. To develop a Fiber-Optic Magnetic Sensor Array for surveillance systems. This project is for Anti-Submarine Warfare application. It is expected to last 3 years. Also referred to as the Magnetic Array Sensor (MARS) System (formally Fiber-Optic Magnetic Sensor Array.) Funded with Nunn Amendment.

AGENCY: DOD
COUNTRY: Norway
SUBJECT: Technical R&D
EIF DATE: 02/07/91 TERM DATE:
REMARKS: Cooperative R&D agreement with unspecified termination date. Conducting joint research and testing on protective aircraft shelters to develop explosive safety data for the establishment of Quantity-Distance (QD) criteria to increase shelter survivability. Funded with Nunn Amendment.

AGENCY: DOD
COUNTRY: Spain
SUBJECT: Technical Cooperation
EIF DATE: 06/09/80 TERM DATE: 12/13/97
REMARKS: Provides for exchange of technical information related to development of weapons systems of mutual interest to the U.S. and Spain. 6 annexes (fluids and lubricants, solid propellant, antenna design, mines, shipboard gun systems, proving grounds.) Funding not specified.

AGENCY: DOD
COUNTRY: United Kingdom
SUBJECT: Technical R&D
EIF DATE: 10/26/88 TERM DATE:
REMARKS: Cooperative R&D agreement with unspecified termination date. Program involves development of new acoustic sensors and

countermeasures to detect, track, and divert incoming torpedoes. Provide torpedo defense against all threat torpedos for surface ships. Funded with Nunn Amendment.

AGENCY: DOD
COUNTRY: United Kingdom
SUBJECT: Technical R&D
EIF DATE: 07/17/89 TERM DATE:
REMARKS: Cooperative R&D agreement of unspecified termination date. On-going agreement regarding infrared missile countermeasures. Funded with Nunn Amendment.

AGENCY: DOD
COUNTRY: United Kingdom
SUBJECT: Technical R&D
EIF DATE: 10/12/89 TERM DATE:
REMARKS: Cooperative R&D agreement of unspecified termination date. To share technology base in Electro-magnetic (EM) gun development, to address component integration issues and to conduct a joint projectile and hypervelocity terminal effects program. Funded with Nunn Amendment.

AGENCY: DOD
COUNTRY: United Kingdom
SUBJECT: Technical R&D
EIF DATE: 01/23/86 TERM DATE:
REMARKS: Cooperative R&D agreement regarding ASTOVL - Advanced Takeoff - Vertical Landing Aircraft. Technology demonstration of short take off and landing aircraft. Development of hot gas ingestion, propulsion lift generation, and thrust deflector nozzle technology. Active project involving DARPA, US Air Force, US Navy, and NASA relating to engines and different configurations. Project on-going for 5 years; 3 years extension current under negotiations. Funded with Nunn Amendment.

AGENCY: DOD (COE)
COUNTRY: USSR
SUBJECT: Building Technology
EIF DATE: 06/01/84 TERM DATE:
REMARKS: Participation under the direction of the DOD in the US-USSR Joint Committee on Cooperation in the Field of Housing and Other Construction; implementing project agreements now being negotiated. Not actually an independent agreement. Funding not specified.

AGENCY: DOD (DMA)

COUNTRY: Brazil

SUBJECT: Space

EIF DATE: 08/02/90

TERM DATE: 08/02/00

REMARKS: Agreement between the Defense Mapping Agency and the Brazilian Geographic and Statistics Institute (IBGE) for operation of a satellite station to collect geodetic and geophysical data. Funding not specified.

DEPARTMENT OF ENERGY

AGENCY: DOE
COUNTRY: Australia
SUBJECT: Energy
EIF DATE: 04/11/88 TERM DATE: 04/11/98
REMARKS: Establishing wider cooperation in the areas of R&D.
DOE Record No. 239. Funding not specified.

AGENCY: DOE
COUNTRY: Belgium
SUBJECT: Energy (Nuclear)
EIF DATE: 01/19/81 TERM DATE: 01/19/94
REMARKS: Establish an exchange of technology in the field of
radioactive waste management. Includes terminal storage in
geological formations; technology of retrievable storage; waste
processing technology; and environmental effects. DOE Record No.
87. Funding not specified.

AGENCY: DOE
COUNTRY: Canada
SUBJECT: Energy (Fusion)
EIF DATE: 11/19/87 TERM DATE: 11/19/92
REMARKS: Finding solutions to mutually agreed upon problems
associated with the development of magnetic fusion as a source of
energy. DOE Record No. 228. Funding not
specified.

AGENCY: DOE
COUNTRY: Canada
SUBJECT: Energy (Fossil)
EIF DATE: 06/04/79 TERM DATE: 12/04/94
REMARKS: Establish a framework for cooperation with R&D
activities in tar sands and heavy oil extraction processing and
related technologies. DOE Record No. 46. Funding not
specified.

AGENCY: DOE
COUNTRY: Canada
SUBJECT: Energy
EIF DATE: 12/04/86 TERM DATE: 12/04/96
REMARKS: Establishing wider cooperation in the areas of R&D.
DOE Record No. 194. Funding not specified.

AGENCY: DOE
COUNTRY: France
SUBJECT: Energy (Nuclear)
EIF DATE: 12/19/88 TERM DATE: 09/19/91
REMARKS: Agreement between DOE and the CEA of France to establish a program of scientific cooperation to engage in and be specifically limited to the unclassified utilization of high power lasers in laser-matter interaction physics, diagnostics, and associated technical developments. Circular 175 approval granted to renegotiate agreement - currently with DOE for go ahead. Funding not specified. DOE Record No. 254.

AGENCY: DOE
COUNTRY: France
SUBJECT: Energy (Nuclear)
EIF DATE: 06/20/86 TERM DATE: 05/31/92
REMARKS: Renewal pending IPR renegotiations. Exchange and sharing of nuclear criticality data. DOE Record No. 183. Funding not specified.

AGENCY: DOE
COUNTRY: France
SUBJECT: Energy (Nuclear)
EIF DATE: 07/22/87 TERM DATE: 07/22/92
REMARKS: Exchange of information as to the existence and availability of energy-related literature. DOE Record No. 212. Funding not specified.

AGENCY: DOE
COUNTRY: France
SUBJECT: Energy (Nuclear)
EIF DATE: 04/22/83 TERM DATE: 04/22/93
REMARKS: Cooperation on research, development, test and evaluation to improve physical protection of nuclear materials and facilities. DOE Record No. 122. Funding not specified.

AGENCY: DOE
COUNTRY: France
SUBJECT: Energy (Nuclear)
EIF DATE: 05/31/85 TERM DATE: 02/28/91
REMARKS: Although agreement has expired, it has been extended till 2/28/91 while a new agreement was sent to the French in April '91 for their consideration (with Circular 175 authorization). Being renegotiated for IPR. Cooperation on research, development, testing and evaluation of technology and procedures to improve national nuclear material accounting and control measures. DOE Record No. 160. Funding not specified.

AGENCY: DOE
COUNTRY: Germany
SUBJECT: Energy
EIF DATE: 09/29/77 TERM DATE:
REMARKS: Termination date: Indefinite. Cooperative activities on nuclear material safeguards and physical security. DOE Record No. 31. No funding specified.

AGENCY: DOE
COUNTRY: India
SUBJECT: Energy (Fossil)
EIF DATE: 08/31/87 TERM DATE: 08/31/92
REMARKS: Cooperation on R&D activities pertaining to enhanced oil recovery, underground coal gasification and related technologies. DOE Record No. 215. Funding not specified.

AGENCY: DOE
COUNTRY: Israel
SUBJECT: Energy (Physics)
EIF DATE: 05/27/87 TERM DATE: 05/27/92
REMARKS: Cooperation in high energy physics, applied mathematical sciences, and other basic energy sciences. DOE Record No. 205. Funding not specified.

AGENCY: DOE
COUNTRY: Israel
SUBJECT: Energy
EIF DATE: 06/03/84 TERM DATE: 06/03/91
REMARKS: Renewal for next 5 years in process. Originally signed in 1984 as a Secretariat initiative. Projects in this general bilateral agreement have been implemented for the purpose of establishing wider cooperation in the field of energy R&D, in such areas as shale combustion, coal and solar energy. Technical activity currently at low level. DOE Record No. 144. Funding not specified.

AGENCY: DOE
COUNTRY: Italy
SUBJECT: Energy
EIF DATE: 12/05/85 TERM DATE: 12/05/91
REMARKS: Agreement for purpose of establishing wider cooperation in field of energy R&D. This MOU replaces the MOU between the same parties which expired in 1979. A separate MOU for information exchange was signed. Funding not specified. DOE Record No. 169.

AGENCY: DOE
COUNTRY: Italy
SUBJECT: Energy
EIF DATE: 12/01/83 TERM DATE: 06/05/91
REMARKS: MOU between DOE and Italy concerning energy R&D cooperation. Planned for high level meeting such as the Secretarial visit to Italy in May 1991. Funding not specified.

AGENCY: DOE
COUNTRY: Italy
SUBJECT: Energy (Renewable)
EIF DATE: 06/03/75 TERM DATE: 06/03/90
REMARKS: Agreement being renegotiated; renewed every 5 years. Collaboration in geothermal R&D to include hot dry rock, brine utilization and deep drilling methods. Primarily for information exchange. DOE Record No. 19. Funding not specified.

AGENCY: DOE
COUNTRY: Japan
SUBJECT: Energy (Peaceful Uses)
EIF DATE: 06/20/88 TERM DATE: 06/20/93
REMARKS: Developed cooperation in scientific and technological R&D in such fields as may be mutually agreed upon for peaceful purposes. DOE Record No. 248. Funding not specified.

AGENCY: DOE
COUNTRY: Japan
SUBJECT: Energy
EIF DATE: 05/02/79 TERM DATE: 02/01/95
REMARKS: By Memoranda and Contracts cooperation ranges from studying responses to radiation at the Radiation Effects Research Foundation at Hiroshima and Nagasaki, to high energy physics and fusion research. Also, clean coal technology, solar energy. DOE Record No. 42. Funding not specified.

AGENCY: DOE
COUNTRY: Japan
SUBJECT: Energy (Nuclear)
EIF DATE: 12/03/86 TERM DATE: 12/03/96
REMARKS: Study topics and develop cooperatively and jointly technology and techniques necessary for the safe management of radioactive wastes. Information exchange and joint R&D. DOE Record No. 193. Funding not specified.

AGENCY: DOE
COUNTRY: Japan
SUBJECT: Energy (Nuclear)
EIF DATE: 01/31/79 TERM DATE: 07/31/00
REMARKS: Cooperation in the design, development, construction and operation of liquid metal fast breeder reactors. DOE Record No. 39. Funding not specified.

AGENCY: DOE
COUNTRY: Korea
SUBJECT: Energy
EIF DATE: 11/06/11 TERM DATE: 11/06/91
REMARKS: Renewal pending IPR renegotiations. Cooperation in the broad area of energy conservation. DOE Record No. 94. Funding not specified.

AGENCY: DOE
COUNTRY: Korea
SUBJECT: Energy (Renewable)
EIF DATE: 11/06/81 TERM DATE: 11/06/91
REMARKS: Renewal pending IPR renegotiations. Cooperation in all phases of solar energy research. DOE Record No. 95. Funding not specified.

AGENCY: DOE
COUNTRY: Korea
SUBJECT: Energy (Fossil)
EIF DATE: 11/06/81 TERM DATE: 10/08/91
REMARKS: Renewal pending IPR renegotiations. Exchange of coal related information; personnel exchange and consultation in coal technology. DOE Record No. 96. Funding not specified.

AGENCY: DOE
COUNTRY: Mexico
SUBJECT: Energy (Fossil)
EIF DATE: 06/20/83 TERM DATE: 06/20/90
REMARKS: Exchange information and develop basic and applied research programs in petroleum technology. DOE Record No. 125. Funding not specified.

AGENCY: DOE
COUNTRY: Mexico
SUBJECT: Energy (Renewable)
EIF DATE: 04/07/86 TERM DATE: 04/07/94
REMARKS: Develop an understanding of geothermal reservoirs in sedimentary and fractured igneous rocks. DOE Record No. 178; expected to be extended. Funding not specified.

AGENCY: DOE
COUNTRY: Multilateral
SUBJECT: Energy
EIF DATE: 07/31/78 TERM DATE: 12/31/92
REMARKS: OECD (IEA) R&D program on the application of heat pump systems to energy conservation. Participating countries: Austria, Denmark, Germany, Ireland, Italy, the Netherlands, New Zealand, Sweden, Switzerland, and the United States. Funding not specified.

AGENCY: DOE
COUNTRY: Multilateral
SUBJECT: Energy
EIF DATE: TERM DATE: 12/31/94
REMARKS: OECD (IEA) program to develop and test solar heating and cooling systems. Covers annexes in areas such as: Investigation of performance; use of meteorological information for collectors, and solar applications for buildings. Participating countries/international organization: Australia, Austria, Belgium, Canada, Denmark, EEC, Finland, Germany, Greece, Italy, the Netherlands, Norway, Spain, Sweden, Switzerland, United Kingdom, Japan, and the U.S. Funding not specified.

AGENCY: DOE
COUNTRY: Multilateral
SUBJECT: Energy
EIF DATE: 03/15/87 TERM DATE: 03/15/93
REMARKS: OECD (IEA) research program on fossil fuel multiphase flow sciences. Participating countries: Canada, Norway, United Kingdom, and the United States. Funding not specified.

AGENCY: DOE
COUNTRY: Multilateral
SUBJECT: Energy (Fusion)
EIF DATE: 08/31/90 TERM DATE: 08/30/95
REMARKS: OECD (IEA) program on development of the stellarator concept. Participants: The EEC and the United States. Funding not specified.

AGENCY: DOE
COUNTRY: Multilateral
SUBJECT: Energy (Renewable)
EIF DATE: 12/31/77 TERM DATE: 06/30/92
REMARKS: OECD (IEA) R&D Program on the production of hydrogen from water. Activities include: Thermochemical water production, market assessment, and storage, conversion and safety. Participating countries/international organization:

Belgium, EEC, Canada, Germany, Italy, Japan, the Netherlands, Sweden, Switzerland, United Kingdom, and the United States. Funding not specified.

AGENCY: DOE
COUNTRY: Multilateral
SUBJECT: Energy (Renewable)
EIF DATE: 12/31/77 TERM DATE: 03/29/96
REMARKS: OECD (IEA) program on small solar power systems (SSPS). Activities include design, construction, and operation of 2 solar thermal electric plants based on different concepts -- distributed collector and central receiver systems. Participating countries: Austria, Belgium, Germany, Italy, Spain, Sweden, Switzerland, and the United States. Funding not specified.

AGENCY: DOE
COUNTRY: Multilateral
SUBJECT: Energy
EIF DATE: 02/18/81 TERM DATE:
REMARKS: OECD (IEA) program of RD&D on energy conservation in the pulp and paper industry. Participating countries: Belgium, Canada, Finland, Japan, the Netherlands, New Zealand, Norway, Spain, Sweden; United Kingdom, and the United States. Indefinite termination date; it continues in force unless the Executive Committee terminates it. Funding not specified.

AGENCY: DOE
COUNTRY: Multilateral
SUBJECT: Energy (Fusion)
EIF DATE: 04/02/90 TERM DATE: 04/02/00
REMARKS: OECD (IEA) R&D program on reversed field pinches. Participants: EURATOM, Japan, and the United States. Funding not specified.

AGENCY: DOE
COUNTRY: Multilateral
SUBJECT: Energy (Nuclear)
EIF DATE: 02/11/77 TERM DATE: 02/11/92
REMARKS: Originally an agreement with only Germany, but the BMFT confirms it is now multilateral. Renewal pending IPR renegotiations. Development of gas-cooled reactors: possible use as high temperature gas-cooled reactors for steam cycle, direct cycle or process heat, or as gas-cooled fast breeder reactors. DOE Record No. 27. Funding not specified.

AGENCY: DOE
COUNTRY: Multilateral
SUBJECT: Energy (Renewable)
EIF DATE: 12/31/84 TERM DATE: 12/31/91
REMARKS: OECD (IEA) program on alcohol and alcohol blends as motor fuel. Participating countries: Canada, Finland, Italy, Japan, New Zealand, Sweden, and the United States. Funding not specified.

AGENCY: DOE
COUNTRY: Multilateral
SUBJECT: Energy
EIF DATE: 12/31/79 TERM DATE: 12/31/91
REMARKS: OECD (IEA) RD&D program on enhanced recovery of oil, including oil shale. Participating countries: Australia, Austria, Canada, Denmark, Egypt, France, Germany, Japan, Norway, United Kingdom, and the United States. Funding not specified.

AGENCY: DOE
COUNTRY: Multilateral
SUBJECT: Energy
EIF DATE: 03/31/77 TERM DATE: 12/31/92
REMARKS: OECD (IEA) R&D Program on energy conservation in buildings and community systems. Participating countries: Australia, Belgium, Canada, Denmark, Finland, Germany, Greece, Italy, Japan, the Netherlands, New Zealand, Norway, Sweden, Switzerland, Turkey, United Kingdom, and the United States. Funding not specified.

AGENCY: DOE
COUNTRY: Multilateral
SUBJECT: Energy (Fusion)
EIF DATE: 12/31/77 TERM DATE: 12/31/92
REMARKS: OECD (IEA) R&D program on plasma wall interaction in textor. Participating countries/international organization: Canada, EEC, Japan, Switzerland, Turkey, and the United States. Negotiations are underway for extension. Funding not specified.

AGENCY: DOE
COUNTRY: Multilateral
SUBJECT: Energy
EIF DATE: 10/21/80 TERM DATE:
REMARKS: OECD (IEA) R&D program on radiation damage in fusion materials. Participants: Canada, EEC, Japan, Switzerland, and the United States. Indefinite termination date; it continues in force unless the Executive Committee terminates it. Funding not specified.

AGENCY: DOE
COUNTRY: Multilateral
SUBJECT: Energy
EIF DATE: 12/31/84 TERM DATE: 12/31/87
REMARKS: OECD (IEA) establishment of biomass conversion technical information service. Indefinite termination date; continues in force unless the Executive Committee terminates it. Participants: Austria, Belgium, Canada, EEC, Finland, Germany, Ireland, Italy, Japan, New Zealand, Norway, Portugal, Sweden, Switzerland, United Kingdom, and the United States. Funding not specified.

AGENCY: DOE
COUNTRY: Multilateral
SUBJECT: Energy
EIF DATE: 12/31/79 TERM DATE: 12/31/93
REMARKS: OECD (IEA) R&D cooperation on wind turbine systems. Activities include recommended practices, conversion systems R&D, evaluation of numerical models, and assessment of integrating wind power into national electrical systems. Participating countries: Austria, Canada, Denmark, Germany, Ireland, Italy, Japan, the Netherlands, New Zealand, Norway, Spain, Sweden, Switzerland, United Kingdom, and the United States. On 01/91 implementing agreement for cooperation in the development of large scale wind energy conversion systems has merged into this agreement. Funding not specified.

AGENCY: DOE
COUNTRY: Multilateral
SUBJECT: Energy
EIF DATE: 12/31/82 TERM DATE: 12/31/91
REMARKS: OECD (IEA) RD&D program on coal/oil mixtures. Participating countries: Canada, Japan, the Netherlands, Spain, Sweden, United Kingdom, and the United States. Funding not specified.

AGENCY: DOE
COUNTRY: Multilateral
SUBJECT: Energy
EIF DATE: 07/27/78 TERM DATE: 07/27/80
REMARKS: OECD (IEA) R&D information exchange on advance heat pump systems. Participants: Austria, Belgium, Canada, Denmark, Finland, France, Germany, Italy, Japan, the Netherlands, Norway, Sweden, Spain, Switzerland, United Kingdom, and the United States. Indefinite termination date; continues in force unless the Executive Committee terminates it. Funding not specified.

AGENCY: DOE
COUNTRY: Multilateral
SUBJECT: Energy
EIF DATE: 12/31/78 TERM DATE: 12/31/91
REMARKS: OECD (IEA) R&D program on energy conservation through energy storage. Participating countries/organizations: Belgium, Canada, EEC, Denmark, Finland, Germany, Italy, the Netherlands, Sweden, Switzerland, and the United States. Funding not specified.

AGENCY: DOE
COUNTRY: Multilateral
SUBJECT: Energy
EIF DATE: 02/01/90 TERM DATE: 02/01/95
REMARKS: Bilateral umbrella energy research agreement was renewed for 5 years. Discussions continued through 1990 to develop arrangements for the transport to Japan of the plutonium recovered from reprocessing in the UK and France. Funding not specified.

AGENCY: DOE
COUNTRY: Multilateral
SUBJECT: Energy (Fusion)
EIF DATE: 01/31/86 TERM DATE: 01/14/91
REMARKS: OECD (IEA) program for cooperation among the 3 large tokamak facilities (JET, JT-60, and TFTR), located in the United Kingdom, Germany, and the United States. Participants: EURATOM, the JET Joint Undertaking, Japan, and the United States. Provisions of the Agreement allow for its extension by the contracting parties. Funding not specified.

AGENCY: DOE
COUNTRY: Multilateral
SUBJECT: Energy
EIF DATE: 06/28/77 TERM DATE: 03/07/91
REMARKS: OECD (IEA) R&D program on energy conservation in heat transfer and heat exchangers. Participants: Germany, the Netherlands, Norway, Sweden, Switzerland, United Kingdom, and the United States. Indefinite termination date; continues in force until the Executive Committee terminates it. Funding not specified.

AGENCY: DOE
COUNTRY: Multilateral
SUBJECT: Energy
EIF DATE: 06/21/90 TERM DATE: 06/21/95
REMARKS: OECD (IEA) program for assessment of impacts of high temperature superconductivity on the electric power sector. Participating countries: Canada, Denmark, Finland, Germany,

Italy, Japan, the Netherlands, Norway, Sweden, Switzerland, Turkey, United Kingdom, Northern Ireland, and the United States. Funding not specified.

AGENCY: DOE
COUNTRY: Multilateral
SUBJECT: Energy
EIF DATE: TERM DATE: 03/25/94
REMARKS: OECD (IEA) RD&D program on coal combustion sciences. Participating countries: Australia, Canada, Denmark, Finland, Germany, Italy, Sweden, the Netherlands, United Kingdom, and the United States. Funding not specified.

AGENCY: DOE
COUNTRY: Multilateral
SUBJECT: Energy
EIF DATE: 12/31/80 TERM DATE: 12/31/92
REMARKS: OECD (IEA) program for energy technology systems analysis. Participating countries/international organization: Australia, Austria, Belgium, Canada, Denmark, EEC, Germany, Greece, Ireland, Italy, the Netherlands, Norway, Spain, Sweden, Switzerland, United Kingdom, Japan, and the United States. Funding not specified.

AGENCY: DOE
COUNTRY: Multilateral
SUBJECT: Energy
EIF DATE: 05/22/79 TERM DATE: 12/31/91
REMARKS: OECD (IEA) R&D program on high temperature materials for automotive engines. Participating countries: Germany, Japan, Sweden, and the United States. Funding not specified.

AGENCY: DOE
COUNTRY: Multilateral
SUBJECT: Energy (Nuclear)
EIF DATE: 09/18/85 TERM DATE: 09/18/95
REMARKS: OECD (NEA) S&T information exchange on nuclear installation decommissioning projects. Participating countries: Belgium, Canada, Germany, France, Italy, Japan, Spain, Sweden, United Kingdom, and the United States. Funding not specified.

AGENCY: DOE
COUNTRY: Multilateral
SUBJECT: Energy
EIF DATE: 12/31/75 TERM DATE:
REMARKS: Termination date: Indefinite. OECD (IEA) establishment of coal research service. Covers mining

technology, clearinghouse, coal economic assessment and technical information, and world resources and reserves data. Participating countries/agencies: Australia, Austria, Belgium, Canada, Finland, Germany, Italy, the Netherlands, Spain, Sweden, United Kingdom, Denmark, Ireland, Japan, New Zealand, and the United States (DOI/USGS and BLM). This agreement incorporates 4 previous implementing agreements on: mining technology clearinghouse (DOI/BOM), coal economic assessment services (DOE), coal technical information services (DOI/USGS), and world coal resources and reserves data bank (DOI/USGS). Funding not specified.

AGENCY: DOE
COUNTRY: Multilateral
SUBJECT: Energy
EIF DATE: 06/21/84 TERM DATE: 06/21/87
REMARKS: OECD (IEA) establishment of energy technology data exchange. Participants: Canada, Denmark, Finland, France, Germany, Italy, Japan, the Netherlands, Norway, Spain, Sweden, Switzerland, United Kingdom, and the United States. Indefinite termination date; provisions provided for the agreement to be extended in writing by the Executive Committee acting by unanimity, and taking into account any recommendations of the IEA/CRD concerning the terms of the agreement. Funding not specified.

AGENCY: DOE
COUNTRY: Multilateral
SUBJECT: Energy
EIF DATE: 03/17/88 TERM DATE: 03/17/93
REMARKS: Establishing IEA (OECD) Information Center for the Analysis and Dissemination of Demonstrated Energy Technologies (CADDET). Participating countries: Australia, Canada, Denmark, Finland, Italy, Japan, the Netherlands, New Zealand, Norway, Sweden, Switzerland, United Kingdom, and the United States. Funding not specified.

AGENCY: DOE
COUNTRY: Norway
SUBJECT: Energy (Fossil)
EIF DATE: 04/22/87 TERM DATE: 04/22/92
REMARKS: Establish an exchange of scientific and technical information regarding fossil energy R&D and conduct joint basic and/or applied fossil energy research projects. DOE Record No. 199. Funding not specified.

AGENCY: DOE
COUNTRY: Saudi Arabia
SUBJECT: Energy (Renewable)
EIF DATE: 02/04/87 TERM DATE: 02/04/92
REMARKS: Finding solutions to mutually agreed on problems in renewable energy R&D. DOE Record No. 197. Funding not specified.

AGENCY: DOE
COUNTRY: Spain
SUBJECT: Energy
EIF DATE: 06/06/86 TERM DATE: 06/06/91
REMARKS: Renewal pending IPR renegotiations. MOU between DOE and the Spanish Junta de Energia Nuclear for cooperation in energy R&D. Covers nuclear waste management; renewable energy, including biomass, coal and gas technologies, conservation, high energy physics, and environmental impact of energy technology. DOE Record No. 181. Funding not specified.

AGENCY: DOE
COUNTRY: Sweden
SUBJECT: Energy (Nuclear)
EIF DATE: 09/09/80 TERM DATE: 09/09/95
REMARKS: Exchange information in radioactive waste management, particularly in the assessment of rock formations for terminal storage. DOE Record No. 81. Funding not specified.

AGENCY: DOE
COUNTRY: Switzerland
SUBJECT: Energy (Nuclear)
EIF DATE: 04/19/85 TERM DATE: 09/22/96
REMARKS: Study of mutually agreed topics associated with the management of radioactive waste and related activities of the nuclear fuel cycle. DOE Record No. 158. Funding not specified.

AGENCY: DOE
COUNTRY: United Kingdom
SUBJECT: Energy
EIF DATE: 06/11/90 TERM DATE: 06/11/00
REMARKS: Broad-based agreement on energy R&D activities. DOE Record No. 277. Funding not specified.

AGENCY: DOE
COUNTRY: United Kingdom
SUBJECT: Energy (Nuclear)
EIF DATE: 09/20/76 TERM DATE: 09/30/91
REMARKS: A balanced information exchange of liquid metal fast breeder reactor technology in such areas as reactor safety, neutronics analysis, etc. Being renegotiated to include FRG, France, Italy and Belgium. DOE Record No. 25. Funding not specified.

AGENCY: DOE
COUNTRY: United Kingdom
SUBJECT: Energy (Nuclear)
EIF DATE: 08/26/88 TERM DATE: 08/26/98
REMARKS: Information exchange and collaboration on gas-cooled reactor graphite technology in cooperative areas like graphite creep data; graphite fracture models and data; graphite strength data; and graphite probabilistic risk. DOE Record No. 250. Funding not specified.

AGENCY: DOE
COUNTRY: United Kingdom
SUBJECT: Energy (Nuclear)
EIF DATE: 10/30/86 TERM DATE: 10/30/91
REMARKS: Exchange of technology for management of radioactive waste. DOE Record No. 189. Funding not specified.

AGENCY: DOE
COUNTRY: United Kingdom
SUBJECT: Energy (Nuclear)
EIF DATE: 03/01/85 TERM DATE: 03/01/93
REMARKS: Establish a reciprocal and balanced exchange of decommissioning technology and experiences with nuclear facilities. DOE Record No. 155. Funding not specified.

AGENCY: DOE
COUNTRY: United Kingdom
SUBJECT: Energy
EIF DATE: 10/18/84 TERM DATE: 06/18/95
REMARKS: First expired April 30, 1990; renegotiated and signed by Secretary Watkins in June 1990. Overall MOU agreement relatively inactive. Agreement proposes new activities on coal liquefaction and NOx R&D. Funding not specified. DOE Record No. 150.