

Contract No.: DE-AC02-07CH11357
Section J
Appendix J

ATTACHMENT J.10

APPENDIX J

**TREATIES AND INTERNATIONAL AGREEMENTS/WAIVED
INVENTIONS**

**Applicable to the Operation of
AMES Laboratory**

Contract No. DE-AC02-07CH11358

United States Department of Energy
Agreement Listing

| Expiration Date | DOE Office | Title |
|---------------------|----------------------------|---|
| 1-6-97; exec 1-6-92 | PO | Agreement relating to scientific and technical cooperation between the Government of the United States of America and the Government of the Republic of Korea. |
| 7-6-99; exec 7-6-94 | IA and Department of State | Agreement between the Government of the United States of America and the Government of Estonia on science and technology cooperation. |
| 7-6-99; exec 7-6-94 | IA and Department of State | Agreement between the Government of the United States of America and the Government of Latvia on science and technology cooperation. |
| 7-6-99; exec 7-6-94 | IA and Department of State | Agreement between the Government of the United States of America and the Government of the Republic of Lithuania on science and technology cooperation. |
| | | Arrangement for the Exchange of Technical Information and for Cooperation in the Field of Peaceful uses of nuclear energy between the Atomic Energy Office for Peace and the U.S. National Laboratory. |
| Exec 1-15-92 | | Agreement between the Government of the Republic of Indonesia and the Government of the United States of America for cooperation in scientific research and technology development. |
| Exec 6-14-96 | | Memorandum of Understanding between the Department of Energy of the United States of America and the Ministry of Science and Technology of the Republic of Korea for a cooperative laboratory relationship. |
| Exec 12-11-96 | | Agreement between the Department of Energy and the Nuclear Power Engineering Corporation of Japan for cooperation in the field of research and development of light water reactor-associated technologies. |

United States Department of Energy
Agreement Listing

Listing of Agreements Under the Aegis of: IAEA

| Exp Date | DOE Office | Agreement # | Title |
|-----------------|-------------------|--------------------|--|
| 7/20/98 | ER | 000233 | Agreement among the European Atomic Energy Community, Japan, Russia and the United States on Cooperation in the Engineering Design Activities of the International Thermonuclear Experimental Reactor (ITER) |

Office of Policy and International Affairs

All In Force Bilateral Agreements

| ID | File# | Start Date | End Date | Agreement Type | Legally Binding | Parent ID | Parent Type | Subject | Brief Description |
|--|-------|------------|-----------|-------------------|-----------------|-----------|---------------|-----------------------------------|---|
| 61 | 407 | 8/1/1996 | 8/1/2001 | Primary DOE | | | None | Energy Research and Development | Energy Technology Cooperation |
| <p>Title: <i>Specific Arrangement between the Department of Energy of the United States of America and the Public Works and Services Secretariat of the Argentine Republic in the Area of Energy Technology Cooperation</i></p> <p>Comment: Energy Forecasting meeting was hosted by FE in Oct. of 97. Seminar on New Technologies for the Energy Sector was held in Buenos Aires in Dec 98. EERE has work on energy efficiency and renewable projects started under a statement of intent which was a precursor to this agreement. In Dec of 97 four priority areas of work were identified - energy efficiency, energy and environment, energy planning, and renewable energy by then Secretaries of Energy.</p> | | | | | | | | | |
| 62 | 409 | 10/16/199 | 10/16/200 | Primary DOE | | | None | Arms Control and Nonproliferation | Nuclear Technologies |
| <p>Title: <i>Implementing Arrangement between the Department of Energy of the United States of America and the National Atomic Energy Commission of the Argentine Republic for Technical Exchange and Cooperation in the area of Peaceful Uses of Nuclear Energy</i></p> <p>Comment: Expanded sister lab arrangement supporting Article IV of the NPT. Existing annexes cover work in Molybdenum-99 production for LEU, boron neutron capture therapy, decontamination and decommissioning, and LEU advanced fuels.</p> | | | | | | | | | |
| 475 | 431 | 4/13/1998 | 10/16/200 | Secondary DOE | | 62 | Primary DOE | Arms Control and Nonproliferation | Annex 1 - LEU Moly-99 production |
| <p>Title: <i>Project Annex 1 Cooperation in the Field of Molybdenum-99 Production from Low-Enriched Uranium</i></p> <p>Comment: In force as long as the Implementing Arrangement. Action sheets are under development.</p> | | | | | | | | | |
| 521 | 431 | 2/8/1999 | 2/8/2003 | Tertiary DOE | | 475 | Secondary DOE | Nuclear Energy | Action Sheet 1 - Project Annex 1 |
| <p>Title: <i>Action Sheet 1 pursuant to Project Annex 1 for Cooperation in the Field of Molybdenum-99 Production for Low-Enriched Uranium between the National Atomic Energy Commission of the Argentine Republic and the University of Chicago, as Operator of Argonne National Laboratory</i></p> <p>Comment:</p> | | | | | | | | | |
| 476 | 431 | 4/13/1998 | 10/16/200 | Intergovernmental | | 62 | Primary DOE | Arms Control and Nonproliferation | Annex 2 - Boron Neutron Capture Therapy |
| <p>Title: <i>Project Annex 2 Cooperation in the Area of Boron Neutron Capture Therapy</i></p> <p>Comment: In force as long as the Implementing Arrangement. Expert visits are underway.</p> | | | | | | | | | |
| 503 | 431 | 8/11/1998 | | Tertiary DOE | | 476 | Secondary DOE | Arms Control and Nonproliferation | Action Sheet 1 |
| <p>Title: <i>Action Sheet 1 Pursuant to Project Annex 2 Cooperation in the Field of Boron Neutron Capture Therapy</i></p> <p>Comment: Technical exchange visits.</p> | | | | | | | | | |

All In Force Bilateral Agreements

| ID | File# | Start Date | End Date | Agreement Type | Legally Binding | Parent ID | Parent Type | Subject | Brief Description |
|---|-------|------------|------------|----------------|-----------------|-----------|---------------|--|--|
| 477 | 431 | 4/13/1998 | 10/16/2000 | Secondary DOE | | 62 | Primary DOE | Arms Control and Nonproliferation | Annex 3 - D&D of Nuclear Facilities |
| <p>Title: <i>Project Annex 3 Cooperation in the Field of Decontamination and Decommissioning of Nuclear Facilities</i></p> <p>Comment: In force as long as the Implementing Arrangement. Workshop was successfully held in fall of 98 at ANL.</p> | | | | | | | | | |
| 496 | 431 | 8/18/1998 | 10/16/2000 | Secondary DOE | | 62 | Primary DOE | Arms Control and Nonproliferation | Annex 4 - Advanced Fuels |
| <p>Title: <i>Project Annex 4 Cooperation in Field of Low Enriched Uranium Advanced Fuels</i></p> <p>Comment: Remains in force as long as the Implement Arrangement. Action sheets are under development.</p> | | | | | | | | | |
| 555 | 431 | 2/8/1999 | 2/8/2003 | Tertiary DOE | | 496 | Secondary DOE | Arms Control and Nonproliferation | Action Sheet 1 Annex 4, Dart Code |
| <p>Development</p> <p>Title: <i>Action Sheet I Pursuant to Project Annex 4 for Cooperation in the Field of Low Enriched Uranium Advanced Fuels between the National Atomic Energy Commission of the Argentine Republic (CNEA) and the University of Chicago, as Operator of Argonne National Laboratory</i></p> <p>Comment:</p> | | | | | | | | | |
| 63 | 331 | 4/18/1994 | 4/18/2004 | Primary DOE | | | None | Arms Control and Nonproliferation | International Safeguards Applications |
| <p>Title: <i>Agreement between the United States Department of Energy and the National Atomic Energy Commission of Argentina Concerning Research and Development in Nuclear Material Control, Accountancy, Verification, Physical Protection, and Advanced Containment and Surveillance Technology for International Safeguards Applications</i></p> <p>Comment: Cooperate in research, development, testing, and evaluation of technology, equipment and procedures in order to improve nuclear material control, accountancy, verification, physical protection and advanced containment and surveillance technologies for international safeguards applications.</p> | | | | | | | | | |
| 64 | 387 | 5/29/1996 | 5/29/2006 | Primary DOE | | | None | Environmental Restoration and Waste Management | Radioactive and Mixed Waste Management |
| <p>Title: <i>Implementing Arrangement between the Department of Energy of the United States of America and the National Atomic Energy Commission of the Argentine Republic for Technical Exchange and Cooperation in the Area of Radioactive and Mixed Waste Management</i></p> <p>Comment: Study radioactive and mixed waste management activities in such areas as: preparation and packaging; decontamination and decommissioning; surface and subsurface storage; characterization of geologic formations; disposal in geologic formations, etc.</p> | | | | | | | | | |

Country: Australia

| | | | | | | | | | |
|--|-----|-----------|-----------|-------------|--|--|------|-----------------------------------|------------------------|
| 509 | 456 | 9/15/1998 | 9/14/2008 | Primary DOE | | | None | Arms Control and Nonproliferation | Safeguards Arrangement |
| <p>Title: <i>Arrangement between the United States Department of Energy and the Australian Safeguards and Nonproliferation Office Concerning Research and Development in Nuclear material Control Accountancy, Verification, Physical Protection, Advance Containment and Surveillance Technologies for International Safeguards</i></p> <p>Comment:</p> | | | | | | | | | |

Country: Austria

All In Force Bilateral Agreements

| ID | File# | Start Date | End Date | Agreement Type | Legally Binding | Parent ID | Parent Type | Subject | Brief Description |
|--|-------|------------|-----------|---------------------|-----------------|-----------|-------------|--|---|
| 65 | 337 | 9/18/1994 | | Primary DOE | | | None | Energy Efficiency and Renewable Energy | EE/Conservation and Climate Change |
| Title: <i>Memorandum of Understanding on Cooperation in Environmental Aspects of Energy Policy and the Protection of Global Climate</i> | | | | | | | | | |
| Comment: Cooperate in areas of sufficient growth of energy supplies; energy efficiency and conservation measures and protection of the biosphere (climate change). | | | | | | | | | |
| Country: <u><i>Bangladesh</i></u> | | | | | | | | | |
| 501 | 450 | 12/15/1999 | | Statement of Intent | | | None | Energy Research and Development | SOI in Enregy Cooperation |
| Title: <i>Joint Statement of Cooperation in Energy</i> | | | | | | | | | |
| Comment: | | | | | | | | | |
| 514 | 460 | 2/11/1999 | 2/11/2004 | Primary DOE | | | None | Information and/or Personnel Exchange | Exchange of Energy Information |
| Title: <i>Arrangement between the Department of Energy of the United States of America and the Ministry of Energy and Mineral Resources, Government of the People's Republic of Bangladesh for Exchange of Energy Information</i> | | | | | | | | | |
| Comment: EIA will work with an agency designated by MEOMR to establish a reasonably balanced exchange of energy information. | | | | | | | | | |
| Country: <u><i>Botswana</i></u> | | | | | | | | | |
| 600 | 495 | 12/15/2000 | | Statement of Intent | | | None | Fossil Energy | Cooperation in the Field of Fossil Energy |
| Title: <i>Statement of Intent Between The Department of Energy of the United States of America and The Ministry of Minerals, Energy and Water Affairs of the Republic of Botswana for Cooperation in the Field of Fossil Energy Technology</i> | | | | | | | | | |
| Comment: | | | | | | | | | |
| Country: <u><i>Brazil</i></u> | | | | | | | | | |
| 26 | 391 | 9/30/1996 | | Statement of Intent | | | None | Fossil Energy | Clean Coal Technologies |
| Title: <i>Joint Statement of Intent on Clean Coal Technologies between the Department of Energy of the United States of America and the State of Rio Grande do Sul and the State of Santa Catarina, and the Sindicato Nacional da Industria da Extracao do Carvao, Eletrabras, and the Ministry of Mines and Energy of the Federal Republic of Brazil</i> | | | | | | | | | |
| Comment: Intention to cooperate between DOE, the State of Rio Grande do Sul, the State of Santa Catarina, The Sindicato Nacional da Industria da Extracao do Carvao, Electrobras, and the Ministry of Mines and Energy of Brazil in clean coal technologies. | | | | | | | | | |
| 655 | 550 | 6/20/2003 | 6/20/2008 | Primary DOE | | | None | Science and Technology | Cooperation in Nuclear Energy |
| Title: <i>Agreement between the Department of Energy of the United States of America nd the Ministry of Science and Technology of the Federative Republic of Brazil Concerning Cooperation in Nuclear Energy</i> | | | | | | | | | |
| Comment: | | | | | | | | | |

All In Force Bilateral Agreements

| ID | File# | Start Date | End Date | Agreement Type | Legally Binding | Parent ID | Parent Type | Subject | Brief Description |
|---|-------|------------|------------|----------------|-----------------|-----------|-------------|--|---|
| 75 | 412 | 10/14/1999 | 10/14/2000 | Primary DOE | | | None | Energy Research and Development | Energy Technology |
| Title: <i>Implementing Arrangement between the United States of America and the Federative Republic of Brazil for Cooperation in the Area of Energy Technology</i> | | | | | | | | | |
| Comment: Umbrella Agreement | | | | | | | | | |
| 279 | 412 | 10/14/1999 | 10/14/2000 | Secondary DOE | | 75 | Primary DOE | Fossil Energy | Annex 1 - Coal and Power Systems |
| Title: <i>Annex I to the Implementing Arrangement between the United States of America and the Federative Republic of Brazil for Cooperation in the Area of Energy Technology in the Field of Coal and Power Systems</i> | | | | | | | | | |
| Comment: Exchange experience and views on clean coal technologies, advanced power systems, advanced coal preparation, and environmental monitoring technologies and standards. | | | | | | | | | |
| 280 | 412 | 10/14/1999 | 10/14/2000 | Secondary DOE | | 75 | Primary DOE | Energy Efficiency and Renewable Energy | Annex 2 - Renewable Energy |
| Title: <i>Annex II to the Implementing Arrangement between the United States of America and the Federative Republic of Brazil for Cooperation in the Area of Energy Technology in the Field of Renewable Energy</i> | | | | | | | | | |
| Comment: Collaboration on renewables resource assessment, integration in electric utility, policy analysis, and identification of opportunities for renewable energy in Brazil. | | | | | | | | | |
| 281 | 412 | 10/14/1999 | 10/14/2000 | Secondary DOE | | 75 | Primary DOE | Energy Efficiency and Renewable Energy | Annex 3- Energy Efficiency |
| Title: <i>Annex III - to the Implementing Arrangement between the United States of America and the Federative Republic of Brazil for Cooperation in the Area of Energy Technology in the Field of Energy Efficiency</i> | | | | | | | | | |
| Comment: Collaboration to increase energy, efficiency, promote global environmental protection, and stimulate the market in Brazil for energy efficiency goods and services. | | | | | | | | | |
| 76 | 332 | 4/18/1994 | 4/18/2004 | Primary DOE | | | None | Arms Control and Nonproliferation | International Safeguards Applications |
| Title: <i>Agreement between the United States Department of Energy and the Brazilian-Argentine Agency for Accounting and Control of Nuclear Materials Concerning Research and Development in Nuclear Material Control, Accountancy, Verification, and Advanced Containment and Surveillance Technologies for International Safeguards Applications</i> | | | | | | | | | |
| Comment: | | | | | | | | | |
| 77 | 376 | 9/19/1995 | 9/19/2000 | Primary DOE | | | None | Arms Control and Nonproliferation | International Safeguards Applications |
| Title: <i>Agreement between the United States Department of Energy and the National Nuclear Energy Commission of Brazil Concerning Research and Development in Nuclear Material Control, Accountancy, Verification, and Physical Protection, and Advanced Containment and Surveillance Technologies for International Safeguards Applications</i> | | | | | | | | | |
| Comment: | | | | | | | | | |
| 651 | 546 | 9/17/2001 | 9/17/2006 | Secondary DOE | | 77 | Primary DOE | Arms Control and Nonproliferation | Extension - Agreement bet. DOE and the National Nuclear Energy Commission |
| Title: <i>Agreement to Extend the Agreement between the Department of Energy of the United States and the National Nuclear Energy Commission of Brazil Concerning Research and Development in Nuclear Material Control, Accountancy, Verification, Physical Protection, and Advanced Containment and Surveillance Technologies for International Safeguards Applications</i> | | | | | | | | | |
| Comment: 5- year extension | | | | | | | | | |

Country: Canada

All In Force Bilateral Agreements

| ID | File# | Start Date | End Date | Agreement Type | Legally Binding | Parent ID | Parent Type | Subject | Brief Description |
|---|-------|------------|-----------|---------------------|-----------------|-----------|-------------|--|---|
| 28 | 363 | 7/21/1995 | | Statement of Intent | | 21 | Broad | Energy Efficiency and Renewable Energy | Building Energy Simulation Tools |
| Title: <i>Statement of Intent between the United States Department of Energy and the Department of Natural Resources of Canada on Building Energy Simulation Tools</i> | | | | | | | | | |
| Comment: Collaborate in building energy simulation R&D and information dissemination. | | | | | | | | | |
| 614 Natural | 509 | 10/22/200 | 10/22/200 | Primary DOE | | | None | Energy Efficiency and Renewable Energy | Arrangement between DOE and Dept. of Resources Canada |
| Title: <i>Implementing Arrangement between the Department of Energy of the United States of America and the Department of Natural Resources Canada for Cooperation in the areas of Microgeneration and Community Energy Systems</i> | | | | | | | | | |
| Comment: | | | | | | | | | |
| 632 | 527 | 5/10/2000 | 5/10/2005 | Primary DOE | | | None | Science and Technology | Cooperation in the area of Bioenergy |
| Title: <i>Implementing Arrangement between the United States Department of Energy and the Department of Natural Resources of Canada for Cooperation in the area of Bioenergy</i> | | | | | | | | | |
| Comment: | | | | | | | | | |
| 656 | 551 | 6/17/2003 | 6/17/2008 | Primary DOE | | | None | Nuclear Energy | Nuclear Energy Research |
| Title: <i>Implementing Arrangement between the United States Department of Energy and the Department of Natural Resources of Canada and Atomic Energy of Canada Limited for Collaboration in the area of Nuclear Energy Research</i> | | | | | | | | | |
| Comment: Foreign Party for Atomic Energy of Canada Limited signed this agreement also on June 17, 2003. | | | | | | | | | |
| 81 | 425 | 3/18/1998 | 3/18/2008 | Primary DOE | | | None | Energy Research and Development | Energy R&D |
| Title: <i>Memorandum of Understanding between the Department of Energy of the United States of America and the Department of Natural Resources of Canada on Collaboration in Energy Research and Development</i> | | | | | | | | | |
| Comment: Establish wider areas of cooperation for mutual benefit | | | | | | | | | |
| 524 Arrangement | 469 | 2/1/2000 | 2/1/2005 | Secondary DOE | | 81 | Primary DOE | Fossil Energy | DOE/NRCan Fuel Cells Implementing |
| Title: <i>Implementing Arrangement between the Department of Energy of the United States of America and the Department of Natural resources Canada for Cooperation in the area of Fuel Cells</i> | | | | | | | | | |
| Comment: Automatic Renewal after 5 years with written agreement of the participants. | | | | | | | | | |
| 525 | 470 | 2/1/2000 | 2/1/2005 | Secondary DOE | | 81 | Primary DOE | Fossil Energy | DOE/NRCan Fossil Fuels Implementing |
| Title: <i>Implementing Arrangement between Department of Energy of the United States of America and the Department of Natural Resources Canada for Cooperation in the area of Fossil Fuels</i> | | | | | | | | | |
| Comment: Automatic renewal for 5 years with written agreement of the participants. | | | | | | | | | |

All In Force Bilateral Agreements

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|-----|-------|------------|-----------|---------------------|-----------------|-----------|---------------|--|--|
| 646 | 541 | 9/11/2002 | 9/11/2007 | Tertiary DOE | | 525 | Secondary DOE | Fossil Energy | Project Annex I - Weyburn CO2 Sequestration Title: <i>Project Annex I - Weyburn CO2 Sequestration Project under the Implementing Arrangement Between the Department of Energy of the United States of America and the Department of Natural Resources Canada for Cooperation in the Area of Fossil Fuels</i> Comment: |
| 27 | 341 | 11/18/199 | | Statement of Intent | | 21 | Broad | Energy Efficiency and Renewable Energy | Biennial Biomass Conf. of the Americas Title: <i>Statement of Intent between the United States Department of Energy and the Department of Mines and Resources on Biennial Biomass Conference of Americas</i> Comment: Collaborate in a biennial conference to present the latest results in biomass energy research and development. |

Country: Chile

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|-----|-----|-----------|-----------|---------------------|--|--|------|--|--|
| 35 | 352 | 3/7/1995 | | Statement of Intent | | | None | Energy Efficiency and Renewable Energy | Control Emissions of Greenhouse Gases Title: <i>Statement of Intent for Sustainable Development Cooperation and Joint Implementation of Measures to Control Emissions of Greenhouse Gases Between the Department of Energy of the United States of America and the National Energy Commission of Chile</i> Comment: Intent to facilitate the development of joint implementation projects in order to encourage: market deployment of greenhouse gas-reducing technologies, including energy efficiency and renewable energy technologies; education and training programs, etc. |
| 474 | 430 | 4/18/1998 | 4/12/2000 | Statement of Intent | | | None | Energy Efficiency and Renewable Energy | Natural Gas-Powered Bus Pilot Project Title: <i>Statement of Intent Concerning the Natural Gas-Powered Bus Pilot Project in the Metropolitan Region of Chile</i> Comment: Signed in Santiago, Chile, during the SOAII |

Country: China

| | | | | | | | | | |
|-----|-----|-----------|-----------|-------------------|--|-----|-------------------|------------------------|---|
| 1 | 427 | 1/31/1979 | 4/30/2001 | Intergovernmental | | | None | Science and Technology | Gov't to Gov't S&T Title: <i>Agreement between the Government of United States of America and the Government of People's Republic of China on Cooperation in Science and Technology</i> Comment: Need copy of agreement |
| 238 | 123 | 5/11/1983 | 4/30/2001 | Primary DOE | | 1 | Intergovernmental | Fusion Energy | Protocol on Nuclear Physics and Magnetic Fusion Title: <i>Protocol between the Department of Energy of the United States of America and the Ministry of Science and Technology of the People's Republic of China on Cooperation in the Fields of Nuclear Physics and Controlled Magnetic Fusion Research</i> Comment: Cooperate in promoting each other's program in Nuclear Physics and Controlled Magnetic Fusion. Co-terminates with umbrella S&T agreement. |
| 290 | 223 | 9/28/1987 | 4/30/2001 | Secondary DOE | | 239 | Primary DOE | Fossil Energy | Annex 2 - Mine Safety and Health Title: <i>Annex II to the Protocol on Cooperation in the Field of Fossil Energy Research and Development between the Department of Energy of the United States of America and the Ministry of Coal Industry of the People's Republic of China in the Area of Mine Safety and Health</i> Comment: Co-terminates with the Protocol |

All In Force Bilateral Agreements

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|--|-------|------------|-----------|----------------|-----------------|-----------|-------------|---------------------------------|---|
| 291 | 217 | 8/19/1987 | 4/30/2001 | Secondary DOE | | 239 | Primary DOE | Energy Research and Development | Annex 3 - Atmospheric Trace Gasses |
| <p>Title: <i>Annex III to the protocol on fossil energy R&D on Cooperation in the field of atmospheric trace gases</i></p> <p>Comment: Co-terminates with the Protocol</p> | | | | | | | | | |
| 292 | 226 | 10/13/198 | 4/30/2001 | Secondary DOE | | 239 | Primary DOE | Fossil Energy | Annex 4 - Coal Preparation & Waste Stream Utilization |
| <p>Title: <i>Annex IV to protocol on cooperation in field of fossil energy R&D between U.S. Department of Energy & Ministry of Coal Industry of the People's Republic of China in the area of coal preparation and waste stream utilization</i></p> <p>Comment: TASKS PLANNED WERE COMPLETED IN 10/90. DISCUSSIONS ON POSSIBLE FURTHER COOPERATION IN COAL PREP. Co-terminates with the Protocol</p> | | | | | | | | | |
| 293 | 227 | 10/13/198 | 4/30/2001 | Secondary DOE | | 239 | Primary DOE | Fossil Energy | Annex 5 - Atmospheric Fluidized Bed |
| Combustion | | | | | | | | | |
| <p>Title: <i>Annex V to protocol on cooperation in field of fossil energy R&D between U.S. Department of Energy - Ministry of Coal Industry of the People's Republic of China in the area of atmospheric fluidized bed (AFB) combustion information exchange</i></p> <p>Comment: EXCHANGE OF REPORTS AND DATA. Co-terminates with Protocol</p> | | | | | | | | | |
| 296 | 349 | 2/23/1995 | 2/23/2000 | Secondary DOE | | 239 | Primary DOE | Fossil Energy | Annex 11 - Coal Bed Methane Recovery and Utilization |
| <p>Title: <i>Annex XI to the Protocol for Cooperation in the Field of Fossil Energy Research and Development between the Department Energy of the United States of America and the Ministry of Coal Industry of the People's Republic of China for Cooperation in the Area of Coalbed Methane Recovery and Utilization</i></p> <p>Comment: Promote technological and economic cooperation in coal bed methane recovery and utilization technology in order to make positive contributions toward improving recovery efficiency and utilization of globally significant natural gas energy resources.</p> | | | | | | | | | |
| 297 | 348 | 2/23/1995 | 2/23/2000 | Secondary DOE | | 239 | Primary DOE | Fossil Energy | Annex 12 - Regional Climate Research |
| <p>Title: <i>Annex XII to the Protocol on Cooperation in the Field of Fossil Energy Research and Development between the Department Energy of the United States of America and the Ministry of Coal Industry of the People's Republic of China for Cooperation in the Area of Regional Climate Research with the China Meteorological Administration</i></p> <p>Comment: Establish a program of joint R&D and information exchange to document regional climate and climate change, to predict regional climate and climate change and to identify regional impacts of climate</p> | | | | | | | | | |
| 485 | 439 | 11/14/199 | 11/14/200 | Secondary DOE | | 239 | Primary DOE | Fossil Energy | Annex 13 - Fossil Fuel Utilization |
| <p>Title: <i>Annex XIII to the Protocol for Cooperation in the Field of Fossil Energy Research and Development between the Department of Energy of the United States of America and the Ministry of Coal Industry of the People's Republic of China in the Area of Fossil Fuel Utilization for Production of Chemicals</i></p> <p>Comment: Co-terminates with Protocol</p> | | | | | | | | | |
| 298 | 413 | 11/14/199 | 11/14/200 | Secondary DOE | | 239 | Primary DOE | Fossil Energy | Annex 14 - Bilateral Consultations on Coal |
| Industry | | | | | | | | | |
| <p>Title: <i>Annex XIV to the Protocol for Cooperation in the field of Fossil Energy Research & Development between the Department of Energy of the United States of America and the Ministry of Coal Industry of the People's Republic of China on Bilateral Consultations and Exchanges on Coal Industry Development and Information</i></p> <p>Comment: Co-terminates with the Protocol</p> | | | | | | | | | |

All In Force Bilateral Agreements

| ID | File# | Start Date | End Date | Agreement Type | Legally Binding | Parent ID | Parent Type | Subject | Brief Description |
|---|-------|------------|-----------|----------------|-----------------|-----------|-------------------|--|---|
| 618 and | 513 | 12/7/2000 | 12/7/2005 | Secondary DOE | | 239 | Primary DOE | Fossil Energy | Annex III - for Cooperation in the areas of Oil |
| <p>Title: <i>Annex III to the Protocol for Cooperation in the Field of Fossil Energy Technology Development and Utilization between the Department of Energy of the United States of America and The Ministry of Science and Technology of the People's Republic of China for Cooperation in the areas of Oil and Gas</i></p> <p>Comment:</p> | | | | | | | | | |
| 240 | 351 | 2/23/1995 | 2/22/2005 | Primary DOE | | 1 | Intergovernmental | Energy Efficiency and Renewable Energy | Protocol for Energy Efficiency and Renewable |
| <p>Title: <i>Protocol for Cooperation in the Fields of Energy Efficiency and Renewable Energy Technology Development and Utilization between the Department of Energy of the United States of America and the Ministry of Science and Technology of the People's Republic of China</i></p> <p>Comment: Desire to conduct bilateral energy consultations by forming a Chinese-American Ministerial Working Group to enhance the understanding of energy issues and promote the exchange of information on energy policies, programs and technologies.</p> | | | | | | | | | |
| 478 | 432 | 6/27/1995 | 6/27/2000 | Secondary DOE | | 240 | Primary DOE | Energy Efficiency and Renewable Energy | Annex 1 - 100 Counties Renewable Energy |
| <p>Title: <i>Annex I to the Protocol for Cooperation in the Field of Energy Efficiency and Renewable Energy between the Department of Energy of the United States of America and the Ministry of Science and Technology of the People's Republic of China for Developing Cooperative Activities in the Area of Renewable Energy Under the Hundred Counties Integrated Rural Energy Development Program in China between the Department of Energy of the United States of America and the Ministry of Agriculture of the People's Republic of China</i></p> <p>Comment: Remains in force for five years or until termination of the Protocol, whichever occurs first</p> | | | | | | | | | |
| 299 | 420 | 10/25/199 | 10/25/200 | Secondary DOE | | 240 | Primary DOE | Energy Efficiency and Renewable Energy | Annex 2 - Wind Energy Development |
| <p>Title: <i>Wind Energy Development in China Developing Cooperative Activities between the Department of Energy of the United States of America and the Ministry of Electric Power of the People's Republic of China ANNEX II under the Protocol for Cooperation in the Fields of Energy Efficiency and Renewable Energy Technology Development and Utilization between the Department of Energy of the United States of America and the State Science and Technology Commission of the People's Republic of China</i></p> <p>Comment: Remains in force for five years or until termination of the Protocol, whichever occurs first.</p> | | | | | | | | | |
| 300 of | 422 | 10/25/199 | 10/25/200 | Secondary DOE | | 240 | Primary DOE | Energy Efficiency and Renewable Energy | Annex 3 - Energy Efficiency |
| <p>Title: <i>Annex III to the Protocol for Cooperation in the Fields of Energy Efficiency and Renewable Energy Technology Development and utilization between the Department of Energy of the United States of America and the State Science and Technology Commission of the People's Republic of China for Cooperation Between the Department of Energy of the United States of America and the State Planning Commission of the People's Republic of China in the Area of Energy Efficiency</i></p> <p>Comment: Remains in force for five years or until termination of the Protocol, whichever occurs first</p> | | | | | | | | | |
| 301 Development | 421 | 10/25/199 | 10/25/200 | Secondary DOE | | 240 | Primary DOE | Energy Efficiency and Renewable Energy | Annex 4 - Renewable Energy Business |
| <p>Title: <i>Renewable Energy Business Development ANNEX IV Cooperative Activities between the Department of Energy of the United States of America and the State Economic and Trade Commission of the People's Republic of China</i></p> <p>Comment: Remains in force for five years or until termination of the Protocol, whichever occurs first</p> | | | | | | | | | |
| 302 | 414 | 11/18/199 | 11/18/200 | Secondary DOE | | 240 | Primary DOE | Energy Efficiency and Renewable Energy | Annex 5 - Electric Vehicle Development |
| <p>Title: <i>The Department of Energy of the United States of America and the Ministry of Science and Technology of the People's Republic of China for Cooperation in the Field of Energy Efficiency and Renewable Energy Technology Development and Utilization Annex V Electric Vehicle and Hybrid-Electric Vehicle Development</i></p> <p>Comment: Remains in force for five years or until termination of the Protocol, whichever occurs first.</p> | | | | | | | | | |

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|--|-------|------------|------------|----------------|-----------------|-----------|-------------------|--|---|
| 303 | 415 | 11/18/1999 | 11/18/2000 | Secondary DOE | | 240 | Primary DOE | Energy Efficiency and Renewable Energy | Annex 6 - Geothermal Production and Use |
| <p>Title: <i>Geothermal Production and Use Cooperative Activities between the Department of Energy of the United States of America and the Ministry of Science and Technology of the People's Republic of China Annex VI under The Protocol for cooperation in the Field of Energy Efficiency and renewable Energy Technology Development and Utilization between the Department of Energy of the United States of America and the State Science and Technology Commission of the People's Republic of China</i></p> <p>Comment: Remains in force for five years or until termination of the Protocol, whichever occurs first.</p> | | | | | | | | | |
| 490 | 443 | 7/9/1998 | | Secondary DOE | | 240 | Primary DOE | Energy Efficiency and Renewable Energy | Design Criteria for Energy Efficient Building |
| <p>Title: <i>Statement of Work between the Department of Energy of the United States of America and the Ministry of Science and Technology of the People's Republic of China</i></p> <p>Comment:</p> | | | | | | | | | |
| 563 | 486 | 5/11/2000 | 5/11/2005 | Secondary DOE | | 240 | Primary DOE | Energy Efficiency and Renewable Energy | Annex 7 - Renewable Energy Policy and Planning |
| <p>Title: <i>Renewable Energy Policy and Planning Annex VII Cooperative Activities between Department of Energy of the United States of America and the State Development Planning Commission of the People's Republic of China</i></p> <p>Comment: Remains in force for five years or until termination of the Protocol, whichever occurs first.</p> | | | | | | | | | |
| 616 | 511 | 7/18/2001 | | Secondary DOE | | 240 | Primary DOE | Energy Efficiency and Renewable Energy | Design Criteria for Energy Efficient Building |
| <p>Title: <i>Amendment to The Statement of Work of July 9, 1998 between The Department of Energy of the United States of America and The Ministry of Science and Technology of the People's Republic of China</i></p> <p>Comment:</p> | | | | | | | | | |
| 621 | 516 | 2/12/2002 | 2/12/2007 | Secondary DOE | | 240 | Primary DOE | Energy Efficiency and Renewable Energy | Annex II - The State Power Corporation of China |
| <p>Title: <i>Agreement to Extend Annex II to the Protocol for Cooperation in the Fields of Energy Efficiency and Renewable Energy Technology Development and Utilization for Cooperative Activities in Wind Development in China between the Department of Energy of the United States of America and the State Power Corporation of China</i></p> <p>Comment:</p> | | | | | | | | | |
| 622 | 517 | 2/12/2002 | 2/12/2007 | Secondary DOE | | 240 | Primary DOE | Energy Efficiency and Renewable Energy | Annex III - State Planning Commission |
| <p>Title: <i>Agreement to Extend and Amend Annex III to the Protocol for Cooperation in the Fields of Energy Efficiency and Renewable Energy Technology Development and Utilization for Cooperative Activities in Energy Efficiency between The Department of Energy of the United States of America and the State Planning Commission of the People's Republic of China</i></p> <p>Comment:</p> | | | | | | | | | |
| 623 | 518 | 2/12/2002 | 2/12/2007 | Secondary DOE | | 240 | Primary DOE | Energy Efficiency and Renewable Energy | Annex IV - State Economic and Trade Commission |
| <p>Title: <i>Agreement to Extend and Amend Annex IV to the Protocol for Cooperation in the Fields of Energy Efficiency and Renewable Energy Technology Development and Utilization for Cooperative Activities in Renewable Energy Business Development between the Department of Energy of the United States of America and the State Economic and Trade Commission of the People's Republic of China</i></p> <p>Comment:</p> | | | | | | | | | |
| 241 | 38 | 1/31/1979 | 4/30/2001 | Primary DOE | | 1 | Intergovernmental | High Energy Physics | High Energy Physics |
| <p>Title: <i>Implementing Accord between the U.S. Department of Energy and the State Scientific and Technological Commission of the People's Republic of China on Cooperation in the Field of High Energy Physics.</i></p> <p>Comment: Co-Terminates with the S&T Agreement</p> | | | | | | | | | |

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|-----|-------|------------|------------|---------------------|-----------------|-----------|-------------------|---------------------------------------|---|
| 242 | 311 | 11/4/1992 | 11/4/2002 | Primary DOE | | 1 | Intergovernmental | High Energy Physics | Superconducting Super Collider Title: <i>Implementing Accord between the U.S. Department of Energy and the Chinese Academy of Sciences for a Program of Collaboration on the Superconducting Super Collider</i> Comment: |
| 522 | 467 | 1/12/2000 | 1/12/2005 | Primary DOE | | 1 | Intergovernmental | Information and/or Personnel Exchange | Exchange of Energy Information Title: <i>Protocol for Cooperation Concerning the Exchange of Energy Information between the Department of Energy of the United States of America and the National Bureau of Statistics of the People's Republic of China</i> Comment: |
| 531 | 476 | 4/20/2000 | 4/30/2001 | Primary DOE | | 1 | Intergovernmental | Fossil Energy | Fossil Energy Protocol Title: <i>Protocol for Cooperation in the Field of Fossil Energy Technology Development and Utilization between the Department of Energy of the United States of America and the Ministry of Science and Technology of the People's Republic of China</i> Comment: Remains in force for 5 years from date of signature or as long as the Umbrella Agreement (US-China S&T) remains in force, whichever is shorter. |
| 649 | 544 | 11/19/2000 | 11/19/2000 | Secondary DOE | | 531 | Primary DOE | Fossil Energy | Annex II - Cooperation in the area of Clean Fuels Title: <i>Annex II to the Protocol on Cooperation in the Field of Fossil Energy Technology Development and Utilization between The Department of Energy of the United States of America and The Ministry of Science and Technology of the People's Republic of China for Cooperation in the Area of Clean Fuels</i> Comment: |
| 3 | 410 | 10/29/199 | | Intergovernmental | | | None | *Other - Energy and Environment | Energy and Environment Cooperation Initiative Title: <i>United States of American and People's Republic of China Energy and Environment Cooperation Initiative</i> Comment: |
| 31 | 347 | 2/23/1995 | | Statement of Intent | | | None | Nuclear Energy | Research Reactor Fuel Title: <i>Statement of Intent between the Department of Energy of the United States of America and the China Atomic Energy Authority of the People's Republic of China on Research Reactor Fuel</i> Comment: Exchange information and views on opportunities for the conversion of research reactors to the use of low enriched uranium. |
| 493 | 445 | 6/29/1998 | 6/29/2003 | Primary DOE | | | None | Nuclear Energy | Nuclear Technologies Agreement Title: <i>Agreement between the Department of Energy of the United States of America and the State Development Planning Commission of the People's Republic of China on Cooperation Concerning Peaceful Uses of Nuclear Technologies</i> Comment: Subject to the Gov't to Gov't Peaceful Uses of Nuclear Energy Agreement signed July 23, 1985. |
| 494 | 445 | 6/29/1998 | 6/29/2003 | Secondary DOE | | 493 | Primary DOE | Nuclear Energy | Annex 1 - IPR Title: <i>Annex I- Intellectual Property</i> Comment: Attached to original agreement. |

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|---|-------|------------|-----------|---------------------|-----------------|-----------|-------------|---|---|
| 620 | 515 | 5/11/2000 | 5/11/2005 | Secondary DOE | | 493 | Primary DOE | Energy Efficiency and Renewable Energy | Annex VII |
| Title: <i>Renewable Energy Policy and Planning Annex VII Cooperative Activities Between the Department of Energy of the United States of America and the State Development Planning Commission of the People's Republic of China</i> | | | | | | | | | |
| Comment: | | | | | | | | | |
| 554 | 483 | 3/29/1999 | | Statement of Intent | | | None | *Other - Energy and Environment | MOU on Clean Energy Projects and Technologies |
| Title: <i>Memorandum of Understanding Among The State Development Planning Commission of the People's Republic of China, China Development Bank, The United States Department of Energy, and Export Import Bank of the United States Regarding Cooperation on Clean Energy Projects and Technologies</i> | | | | | | | | | |
| Comment: | | | | | | | | | |
| 642 | 537 | 9/10/2002 | | Statement of Intent | | | None | Science and Technology | SOI - Clean Energy Technologies |
| Title: <i>Statement of Intent between the Department of Energy of the United States of America and the Municipality of Beijing of the People's Republic of China Concerning Clean Energy Technologies</i> | | | | | | | | | |
| Comment: | | | | | | | | | |
| 84 | 345 | 2/23/1995 | | Primary DOE | | | None | *Other - Bilateral Energy Consultations | Bilateral Energy Consultations |
| Title: <i>Memorandum of Understanding between the Department of Energy of the United States of America and the State Planning Commission of the People's Republic of China on Bilateral Energy Consultations</i> | | | | | | | | | |
| Comment: Desire to conduct bilateral energy consultations by forming a Chinese-American Ministerial Working Group to enhance the understanding of energy issues and promote the exchange of information on energy policies, programs and technologies. | | | | | | | | | |

Country: Costa Rica

| | | | | | | | | | |
|--|-----|-----------|-----------|---------------------|--|--|------|--|------------------------|
| 36 | 401 | 5/9/1997 | 5/9/2002 | Statement of Intent | | | None | Energy Efficiency and Renewable Energy | Electric Transport |
| Title: <i>Statement of Intent by the Ministry of Environment and Energy of Costa Rica and the Department of Energy of the United States of America for Cooperation in the Field of Electric Transport</i> | | | | | | | | | |
| Comment: | | | | | | | | | |
| 504 | 451 | 11/17/199 | 11/17/200 | Primary DOE | | | None | Arms Control and Nonproliferation | Sister Lab Arrangement |
| Title: <i>Arrangement for information Exchange and Cooperation in the Area of Peaceful Uses of Nuclear Energy between Argonne National Laboratory and Atomic Energy Commission of Costa Rica</i> | | | | | | | | | |
| Comment: ACDA led sister lab. | | | | | | | | | |

Country: Czech Republic

| | | | | | | | | | |
|--|-----|-----------|-----------|-------------------|--|--|------|------------------------|----------------------|
| 4 | 300 | 10/22/199 | 10/22/200 | Intergovernmental | | | None | Science and Technology | Science & Technology |
| Title: <i>Agreement between the Government of the Czech and Slovak Federal Republic and the Government of the United States of America for Scientific and Technological Cooperation</i> | | | | | | | | | |
| Comment: Develop, support and facilitate S&T cooperation between cooperating organizations between the two countries in the areas of basic science, environmental protection, medical sciences and health, agriculture, engineering research, energy, natural resources and their useful utilization, standardization, S&T policy and management. | | | | | | | | | |

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|---|-------|------------|-----------|----------------|-----------------|-----------|-------------|--|---|
| Country: <u>Egypt</u> | | | | | | | | | |
| 517 | 463 | 7/1/1999 | 7/1/2004 | Primary DOE | | | None | Energy Research and Development | Energy Technology Agreement |
| Title: <i>Implementing Arrangement between the Department of Energy of the United States of America and the Ministry of Electricity and Energy of the Arab Republic of Egypt for Cooperation in Energy Technology</i> | | | | | | | | | |
| Comment: | | | | | | | | | |
| 527 | 472 | 2/23/2000 | 2/23/2005 | Secondary DOE | | 517 | Primary DOE | Energy Efficiency and Renewable Energy | Annex 1 - Renewable Energy |
| Title: <i>Annex I to the Implementing Arrangement between the Department of Energy of the United States of America and the Ministry of Electricity and Energy of the Arab Republic of Egypt in the Field of Renewable Energy</i> | | | | | | | | | |
| Comment: | | | | | | | | | |
| 528 | 473 | 2/23/2000 | 2/23/2005 | Secondary DOE | | 517 | Primary DOE | Energy Efficiency and Renewable Energy | Annex 2 - Fuel Cells |
| Title: <i>Annex II to the Implementing Arrangement between the Department of Energy of the United States of America and the Ministry of Electricity and Energy of the Arab Republic of Egypt for Cooperation in Energy Technology in the Field of Fuel Cells</i> | | | | | | | | | |
| Comment: | | | | | | | | | |
| Country: <u>Estonia</u> | | | | | | | | | |
| 526 | 471 | 2/4/2000 | 2/4/2003 | Primary DOE | | | None | Fossil Energy | Oil Shale Research and Utilization |
| Title: <i>Agreement between the Department of Energy of the United States of America and the Ministry of Economic Affairs of the Republic of Estonia for Scientific and Technology Cooperation on Oil Shale Research and Utilization</i> | | | | | | | | | |
| Comment: Establishes a Joint Coordinating Committee to manage cooperative work under the agreement. | | | | | | | | | |
| 99 | 353 | 3/13/1995 | 3/13/2000 | Primary DOE | | | None | Environmental Restoration and Waste Management | Technical Cooperation in Clean-up Paldiski Site |
| Title: <i>Memorandum of Understanding between the Department of Energy of the United States and the Ministry of Economy of Estonia for Technical Cooperation in the Clean-up of the Paldiski Nuclear Training Site</i> | | | | | | | | | |
| Comment: Cooperate and share interests and objectives in environmental restoration and in the safe and effective management of hazardous wastes and the clean-up of the environment at and around the nuclear training site at Paldiski, Estonia. | | | | | | | | | |
| Country: <u>European Atomic Energy Community (EURATOM)</u> | | | | | | | | | |
| 568 | 490 | 1/6/1995 | 1/6/2005 | Primary DOE | | | None | International Safeguards | EURATOM Safeguards |
| Title: <i>Agreement between the European Atomic Energy Community Represented by the Commission of the European Communities and the United States Department of Energy in the field of Nuclear Materials Safeguards Research and Development</i> | | | | | | | | | |
| Comment: Auto renewal for five years periods. | | | | | | | | | |

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|--|-------|------------|-----------|----------------|-----------------|-----------|-------------|--------------------------|--|
| 576 | 490 | 2/18/1999 | 2/18/2001 | Secondary DOE | | 568 | Primary DOE | International Safeguards | Action Sheet 10 - Tank Analysis |
| Title: <i>Action Sheet 10 - The United States Department of Energy (DOE) and The European Atomic Energy Community represented by The Commission of European Communities (EURATOM) for Computer Code Development for Automated Acquisition and Real-Time Analysis of Volume Measurement Data</i> | | | | | | | | | |
| Comment: | | | | | | | | | |
| 612 | 507 | 5/14/2001 | 5/14/2006 | Primary DOE | | | None | Fusion Energy | Fusion Agreement between EURATOM and DOE |
| Title: <i>Agreement for Cooperation between the European Atomic Energy Community Represented by the Commission of the European Communities and the Department of Energy of the United States of America in the Field of Fusion Energy Research and Development</i> | | | | | | | | | |
| Comment: | | | | | | | | | |

Country: European Union

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|---|-----|-----------|-----------|-------------|--|--|------|------------------------|----------------------------------|
| 648 | 543 | 5/14/2001 | 5/14/2006 | Primary DOE | | | None | Science and Technology | Non-Nuclear Energy S&T Agreement |
| Title: <i>Implementing Agreement between the Department of Energy of the United States of America and the European Commission for Non-Nuclear Energy Scientific and Technological Co-operation</i> | | | | | | | | | |
| Comment: | | | | | | | | | |

Country: Finland

| | | | | | | | | | |
|---|-----|-----------|-----------|-------------|--|--|------|---------------------------------|------------|
| 116 | 393 | 1/17/1997 | 1/17/2001 | Primary DOE | | | None | Energy Research and Development | Energy R&D |
| Title: <i>Implementing Arrangement between the Department of Energy of the United States of America and the Ministry of Trade and Industry of Finland for Cooperation in Energy Research and</i> | | | | | | | | | |
| Comment: Auto renewal for 5 years | | | | | | | | | |

Country: France

| | | | | | | | | | |
|---|-----|-----------|--|---------------|--|-----|-------------|--|---|
| 39 | 132 | 10/27/198 | | Secondary DOE | | 121 | Primary DOE | Environmental Restoration and Waste Management | Radioactive Waste Management--West Valley |
| Title: <i>Statement of Intent between the United States Department of Energy and the French Commissariat a l'Energie Atomique on the West Valley Demonstration Project</i> | | | | | | | | | |
| Comment: Cooperate in the areas of treatment of radioactive waste and decontamination and decommissioning activities throughout the course of the DOE Demonstration Project at the Western New York Nuclear Service Center located at West Valley, New York. | | | | | | | | | |
| 40 | 185 | 6/20/1986 | | Secondary DOE | | 121 | Primary DOE | Civilian Radioactive Waste Management | Low-Level Radioactive Waste |
| Title: <i>Statement of Intent between the United States Department of Energy and the French Commissariat a l'Energie Atomique in the Field of Low-Level Radioactive Waste</i> | | | | | | | | | |
| Comment: Confirm intent to expand radioactive waste management cooperation in the area of surface and subsurface disposal and storage of low-level radioactive waste, as well as defined activities. | | | | | | | | | |

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|---|-------|------------|------------|----------------|-----------------|-----------|-------------|---------------------------------------|---|
| 128 | 416 | 12/29/1999 | 12/29/2000 | Primary DOE | | | None | Arms Control and Nonproliferation | Material Control and Accounting |
| <p>Title: <i>Agreement between the Department of Energy of the United States and the Commissariat a l'Energie Atomique of France Concerning Research and Development in the Field of Nuclear Material Control and Accounting Measures</i></p> <p>Comment: Cooperate on research, development, testing and evaluation in the area of nuclear material control and accounting measures.</p> | | | | | | | | | |
| 577 | 416 | 1/20/2000 | 1/20/2001 | Secondary DOE | | 128 | Primary DOE | Arms Control and Nonproliferation | Action Sheet 2 - Isotopic Analysis Evaluation Using the PC/FRAM Physics Isotopics |
| <p>Software</p> <p>Title: <i>Action Sheet No. 2 The United States Department of Energy (DOE) and The Commissariat a l'Energie Atomique (CNEA) of France for Isotopic Analysis Evaluation Using the PC/FRAM Physics Isotopics Software</i></p> <p>Comment:</p> | | | | | | | | | |
| 129 | 417 | 12/29/1999 | 12/29/2000 | Primary DOE | | | None | Arms Control and Nonproliferation | Physical Protection of Nuclear Materials |
| <p>Title: <i>Agreement between the Department of Energy of the United States and the Commissariat a l'Energie Atomique of France Concerning Research and Development in the Field of Physical Protection of Nuclear Materials and Facilities</i></p> <p>Comment: Improve the US & France nuclear materials and facilities physical protection procedures</p> | | | | | | | | | |
| 567 | 417 | 3/14/2000 | 3/14/2002 | Secondary DOE | | 129 | Primary DOE | International Safeguards | Action Sheet 3 - Nuclear Materials Transportation Security |
| <p>Title: <i>Action Sheet No. 3 The United States Department of Energy (DOE) and the Commissariat a l'Energie Atomique of France (CEA) for Nuclear Transportation Security</i></p> <p>Comment:</p> | | | | | | | | | |
| 130 | 357 | 4/26/1995 | 4/26/2005 | Primary DOE | | | None | High Energy Physics | Accelerator Driven Technology |
| <p>Title: <i>Agreement between the Department of Energy and the Commissariat a l'Energie Atomique for Cooperation in Research Development and Application for Accelerators driven Technology</i></p> <p>Comment: Conduct cooperative program of scientific and technical engineering in research, development and application for accelerator driven technology</p> | | | | | | | | | |
| 131 | 377 | 9/20/1995 | 9/20/2000 | Primary DOE | | | None | Civilian Radioactive Waste Management | Radioactive Waste Management |
| <p>Title: <i>Agreement between the United States Department of Energy and the French Commissariat a l'Energie Atomique in the field of Radioactive Waste Management</i></p> <p>Comment: Cooperation in the management of radioactive wastes for the purpose of minimizing the consequences of radioactive contamination on health and environment and promoting the safe and economic application of nuclear energy. Cooperation includes: characterization of geologic formations; field/laboratory testing; preparation/packaging of radioactive wastes; disposal in geologic formations; environmental and safety issues, etc.</p> | | | | | | | | | |
| 132 | 379 | 10/8/1995 | 10/8/2000 | Primary DOE | | | None | Civilian Radioactive Waste Management | Radioactive Waste Management |
| <p>Title: <i>Agreement between the United States Department of Energy and the National Radioactive Waste Management Agency of France in the Field of Radioactive Waste Management</i></p> <p>Comment: Cooperate for purposes of minimizing consequences of radioactive contamination on health and environment and promoting safe and economic application of nuclear energy.</p> | | | | | | | | | |

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|--|-------|------------|-----------|---------------------|-----------------|-----------|-------------|--|--|
| 564 | 487 | 5/9/2000 | 5/9/2005 | Primary DOE | | | None | Defense Programs | DOE/DGA Emerging Technologies |
| Title: <i>Technical Arrangement between the Department of Energy of the United States of America and the Minister of Defense of the French Republic Concerning Cooperation in the Application of Emerging Technologies</i> | | | | | | | | | |
| Comment: Auto Renewal for 5 year periods. | | | | | | | | | |
| 582 | 257 | 8/9/1994 | 8/9/2004 | Primary DOE | | | None | Defense Programs | 1994- High Energy Lasers |
| Title: <i>Agreement between the Department of Energy of the United States of America and the Commissariat a l'Energie Atomique of France of Cooperation in Research, Development and Applications of High Energy Lasers and high Energy Laser-Mater Interaction Physics</i> | | | | | | | | | |
| Comment: | | | | | | | | | |
| 316 | 342 | 11/19/199 | | Secondary DOE | | 582 | Primary DOE | Defense Programs | Megajoule-Class Solid State Lasers - IA #1 |
| Title: <i>Implementing Arrangement I between the United States Department of Energy and the French Atomic Energy Commission concerning Sharing of Science and Technology Information Related to Megajoule-class Solid State Lasers</i> | | | | | | | | | |
| Comment: Sharing of specific S&T information related to megajoule-class solid state lasers. | | | | | | | | | |
| 317 - IA | 343 | 11/19/199 | 8/9/2004 | Secondary DOE | | 582 | Primary DOE | Defense Programs | Megajoule-Class Solid State Laser Technology |
| Title: <i>Implementing Arrangement #2 between the United States Department of Energy and the French Commissariat a l'Energie Atomique on Cooperation in Megajoule-Class Solid State Laser Technology</i> | | | | | | | | | |
| Comment: Implement cooperative activities in research and development in megajoule-class solid state laser technology (high-power, high-energy solid state lasers and target experimental chambers and support | | | | | | | | | |
| 601 | 496 | 9/18/2000 | 9/18/2005 | Primary DOE | | | None | Nuclear Energy | Advanced Nuclear Reactor |
| Title: <i>Agreement between The Department of Energy of the United States of America and The Commissariat A L'Energie Atomique of France for Cooperation in Advanced Nuclear Reactor Science and Technology</i> | | | | | | | | | |
| Comment: | | | | | | | | | |
| 635 Technology | 530 | 7/9/2001 | 7/9/2006 | Secondary DOE | | 601 | Primary DOE | Nuclear Energy | Advanced Nuclear Reactor Science and (I-NERI) |
| Title: <i>Implementing Arrangement No. 1 under the Agreement between the Department of Energy of the United States of America and Commissariat A L'Energie Atomique of France for Cooperation in Advanced Nuclear Reactor Science and Technology</i> | | | | | | | | | |
| Comment: International Nuclear Energy Research Initiative | | | | | | | | | |
| 629 | 524 | 1/2/2002 | 1/2/2007 | Statement of Intent | | | None | Exchange of Information on Research in Life Sciences | SOI between DOE and France |
| Title: <i>Statement of Intent Between the Department of Energy of the United States of America and the Commissariat A' L'Energie Atomique of France Concerning Exchange of Information on Research in Life Sciences</i> | | | | | | | | | |
| Comment: | | | | | | | | | |
| 630 | 525 | 3/13/2002 | 3/12/2007 | Primary DOE | | | None | Computer Sciences | Computer Sciences |
| Title: <i>Agreement between the Department of Energy of the United States of America and the Commissariat A' L'E'nergie Atomique of France Concerning Cooperation in Computer Sciences</i> | | | | | | | | | |
| Comment: | | | | | | | | | |

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|--|-------|------------|-----------|----------------|-----------------|-----------|-------------|---------------------------------------|--|
| 631 | 526 | 3/13/2002 | 3/13/2007 | Primary DOE | | | None | Fundamental Science | Fundamental Science on Stockpile Stewardship |
| Title: <i>Agreement between the Department of Energy of the United States of America and the Commissariat A' L'E'nergie Atomique of France Concerning Cooperation in Fundamental Science Supporting Stockpile Stewardship</i> | | | | | | | | | |
| Comment: | | | | | | | | | |
| 650 | 545 | 5/23/2002 | 5/23/2007 | Primary DOE | | | None | Civilian Radioactive Waste Management | Radioactive Waste Management Agreement |
| Title: <i>Agreement between the Department of Energy of the United States of America and the Commissariat A L'Energie Atomique of France in the field of Radioactive Waste Management</i> | | | | | | | | | |
| Comment: | | | | | | | | | |

Country: Germany

| | | | | | | | | | |
|---|-----|-----------|-----------|---------------|--|----|-------------|--|---|
| 613 | 508 | 7/24/2001 | 7/24/2006 | Primary DOE | | | None | Science and Technology | Agreement between DOE and Germany on Plasma Physics |
| Title: <i>Implementing Agreement between the Federal Ministry of Education and Research of the Federal Republic of Germany and the Department of Energy of the United States of America on Collaboration in the Field of Dense Plasma Physics</i> | | | | | | | | | |
| Comment: | | | | | | | | | |
| 88 | 419 | 2/20/1998 | 2/20/2003 | Primary DOE | | | None | Energy Research and Development | Energy Research |
| Title: <i>Agreement Between the Department of Energy of the United States of America and the Federal Ministry of Education, Science, Research and Technology of the Federal Republic of Germany on Cooperation in Energy Research, Science and Technology, and Development</i> | | | | | | | | | |
| Comment: Auto renewal for 5 year periods. Broad-based umbrella agreement to allow formal cooperation in various program areas | | | | | | | | | |
| 480 | 434 | 5/12/1998 | 5/12/2001 | Secondary DOE | | 88 | Primary DOE | Environmental Restoration and Waste Management | Project: Transportation of Rad Waste |
| Title: <i>Project Agreement between the Department of Energy of the United States of America and the Federal Institute for Material Research and Testing of the Federal Republic of Germany: Technical Exchange and Cooperation on Transportation Requirements in the Field of Management of Radioactive Waste</i> | | | | | | | | | |
| Comment: | | | | | | | | | |
| 93 | 31 | 9/27/1977 | | Primary DOE | | | None | Arms Control and Nonproliferation | Nuclear Materials Safeguards/Physical Security |
| Title: <i>Agreement between the United States Department of Energy and the Federal Minister for Research and Technology of Germany Cooperate in the field of Nuclear Material Safeguards and Physical Security Research and Development</i> | | | | | | | | | |
| Comment: Open-end expiration date | | | | | | | | | |

Country: Ghana

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| ID | File# | Start Date | End Date | Agreement Type | Legally Binding | Parent ID | Parent Type | Subject | Brief Description |
|--|-------|------------|-----------|---------------------|-----------------|-----------|-------------|--|--|
| 149 | 392 | 10/1/1996 | 10/1/2001 | Primary DOE | | | None | Energy Research and Development | Energy Policy, S&T and Development |
| <p>Title: <i>Memorandum of Understanding between the Department of Energy of the United States of America and the Ministry of Mines and Energy of the Republic of Ghana on Cooperation in Energy Policy, Science and Technology, and, Development</i></p> <p>Comment: Facilitate and establish cooperative activities in such areas as: energy efficiency and renewable energy; fossil energy, including natural gas, liquefied petroleum gas, and clean coal technologies; environmental management, including utilization of energy technologies, particularly cost-effective technologies aimed at reducing emissions of greenhouse gases and minimizing environmental impacts; independent power project development, etc.</p> | | | | | | | | | |
| 330 | 399 | 2/27/1997 | 2/27/2001 | Secondary DOE | | 149 | Primary DOE | Energy Efficiency and Renewable Energy | Industrial Assessment Center |
| <p>Title: <i>Implementing Arrangement Between the Department of Energy of the United States of America and the Ministry of Mines and Energy of the Republic of Ghana: Exchange of Information, Technical Assistance and Collaboration for the Establishment of the Industrial Assessment Center at the University of Science and Technology in Kumasi, Ghana</i></p> <p>Comment:</p> | | | | | | | | | |
| 43 | 378 | 9/29/1995 | | Statement of Intent | | | None | Energy Efficiency and Renewable Energy | Energy Efficiency and Renewable Energy |
| <p>Title: <i>Statement of Intent between the Department of Energy of the United States and the Ministry of Mines and Energy of the Republic of Ghana to Cooperate in the Fields of Energy Efficiency and Renewable Energy</i></p> <p>Comment: Exchanging experience and views on opportunities for the utilization of energy efficiency and renewable energy technologies.</p> | | | | | | | | | |
| 44 | 380 | 10/30/199 | | Primary DOE | | | None | Nuclear Energy | Peaceful Uses of Nuclear Energy |
| <p>Title: <i>Memorandum of Understanding for the Exchange of Technical Information and for Cooperation in the Field of Peaceful Uses of Nuclear Energy between the Ghana Atomic Energy Commission and Argonne National Laboratory</i></p> <p>Comment: Establish the basis for a cooperative institutional relationship for the exchange of S&T information regarding the peaceful uses of atomic energy. This is between Ghana Atomic Energy Commission and ARGONNE NATIONAL LAB)</p> | | | | | | | | | |

Country: India

| | | | | | | | | | |
|--|-----|-----------|-----------|-------------|--|--|------|--|---|
| 615 | 510 | 9/13/2000 | 9/13/2005 | Primary DOE | | | None | Energy Efficiency and Renewable Energy | MOU between DOE and India concerning Energy Consultations |
| <p>Title: <i>Memorandum of Understanding between the Ministry of Power of the Republic of India and the Department of Energy of the United States of America Concerning Energy Consultations</i></p> <p>Comment:</p> | | | | | | | | | |

Country: Israel

| | | | | | | | | | |
|--|-----|----------|----------|-------------|--|--|------|--|--------------------|
| 156 | 384 | 2/1/1996 | 2/1/2001 | Primary DOE | | | None | Energy Efficiency and Renewable Energy | Energy Cooperation |
| <p>Title: <i>Agreement between the Department of Energy of the United States of America and the Ministry of Energy and Infrastructure of Israel Concerning Energy Cooperation</i></p> <p>Comment: Establish a framework for collaboration in energy R&D activities including: solar energy; biomass; energy efficiency; wind energy; fossil energy, including oil, gas and coal; electric power production and transmission. Annex I on Intellectual Property and Annex II on Security Obligations are attached. Discussion underway in clean coal technology and electric vehicles.</p> | | | | | | | | | |

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| ID | File# | Start Date | End Date | Agreement Type | Legally Binding | Parent ID | Parent Type | Subject | Brief Description |
|---|-------|------------|-----------|---------------------|-----------------|-----------|-------------|--|--|
| 530 | 475 | 2/22/2000 | | Statement of Intent | | | None | Arms Control and Nonproliferation | SOI on Nonproliferation, Arms Control and Regional Security |
| <p>Title: <i>Letter of Intent between the Department of Energy of the United States of America and the Atomic Energy Commission of Israel on cooperation in the Fields of Non-Proliferation, Arms Control, and Regional Security</i></p> <p>Comment:</p> | | | | | | | | | |
| 617 | 512 | 10/23/200 | 10/23/200 | Primary DOE | | | None | Energy Efficiency and Renewable Energy | Cooperation in the Field of High Temperature Superconductivity |
| <p>Title: <i>Implementation Agreement 3 between the Department of Energy of the United States of America and the Ministry of National Infrastructure of the State of Israel for Cooperation in the Field of High Temperature Superconductivity</i></p> <p>Comment:</p> | | | | | | | | | |
| <p>Country: <i>Italy</i></p> | | | | | | | | | |
| 160 | 358 | 5/26/1995 | 5/26/2000 | Primary DOE | | | None | Energy Research and Development | Energy R&D |
| <p>Title: <i>Agreement between the Department of Energy of the United States of America and the Ministry of Industry, Commerce and Handicraft of the Italian Republic in the Field of Energy Research and Development</i></p> <p>Comment: continues 1985 MOU in Energy R&D</p> | | | | | | | | | |
| 344 | 358 | 5/7/1997 | | Secondary DOE | | 160 | Primary DOE | Fossil Energy | Annex 3 - Fossil Energy |
| <p>Title: <i>Annex III to the Agreement between the Department of Energy of the United States of America and the Ministry of Industry, Commerce and Handicraft of the Republic of Italy to Cooperate in the Field of Fossil Energy</i></p> <p>Comment: Two additional areas were added in March 1998; fuel cells for power applications and externally fired combined cycle systems</p> | | | | | | | | | |
| 345 | 358 | 3/24/1998 | 3/24/2003 | Secondary DOE | | 160 | Primary DOE | Energy Efficiency and Renewable Energy | Annex 4 - Advanced Geothermal Technology |
| <p>Title: <i>Annex IV to the Agreement between the Department of Energy of the United States of America and the Ministry of Industry, Commerce and handicraft of the Republic of Italy in the Field of Energy Research and Development for Cooperation on Advanced Geothermal Technology</i></p> <p>Comment: Provides for collaboration between Ladrello and the Geysir Geothermal Facilities</p> | | | | | | | | | |
| 346 | 358 | 3/24/1998 | 3/24/2008 | Secondary DOE | | 160 | Primary DOE | Energy Efficiency and Renewable Energy | Annex 5 - Biomass Energy |
| <p>Title: <i>Annex V to the Agreement between the Department of Energy of the United States of America and the Ministry of Industry, Commerce and Handicraft of the Republic of Italy in the Field of Energy Research and Development for Cooperation in the Field of Biomass Energy</i></p> <p>Comment: Information Exchange on biomass systems. Task sharing on hot gas clean-up for medium-scale gasifiers.</p> | | | | | | | | | |
| 347 | 358 | 3/24/1998 | 3/24/2008 | Secondary DOE | | 160 | Primary DOE | Energy Efficiency and Renewable Energy | Annex 6 - Photovoltaic Technology |
| <p>Title: <i>Annex VI to the Agreement between the Department of Energy of the United States of America and the Ministry of Industry, Commerce and Handicraft of the Republic of Italy in the Field of Energy Research and Development for Cooperation in the Field of Photovoltaic Technology</i></p> <p>Comment: Info exchange on reducing manufacturing costs of PV cells. Cooperation on guidelines for building integrated PV systems.</p> | | | | | | | | | |

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| ID | File# | Start Date | End Date | Agreement Type | Legally Binding | Parent ID | Parent Type | Subject | Brief Description |
|--|-------|------------|-----------|---------------------|-----------------|-----------|-------------------|---------------------------------------|--|
| 492 | 444 | 7/10/1998 | 7/10/2003 | Secondary DOE | | 160 | Primary DOE | Energy Research and Development | Annex 7 - Electric and Hybrid Vehicles |
| Title: <i>Annex VII to the Agreement between the Department of Energy of the United States of America and the Ministry of Industry, Commerce and Handicraft of the Republic of Italy in the Field of Energy Research and Development for Cooperation in the Field of Electric and Hybrid Vehicles</i> | | | | | | | | | |
| Comment: Remains in force for 5 years or until the Agreement expires, whichever is sooner. | | | | | | | | | |
| 7 | 323 | 10/4/1993 | 10/4/2003 | Intergovernmental | | | None | Science and Technology | Gov't to Govt S & T |
| Title: <i>Agreement between the Government of the United States of America and the Government of the Italian Republic for Scientific and Technological Cooperation</i> | | | | | | | | | |
| Comment: Science and Technology agreement between the United States and the Government of Italy which allows U.S. Government agencies to undertake cooperation in their respective areas of responsibility. Renewed last in 1998. | | | | | | | | | |
| 46 | 323 | 10/31/198 | | Statement of Intent | | 7 | Intergovernmental | Information and/or Personnel Exchange | Synchrotron Light Source |
| Title: <i>Protocol of Intent of Intent between the Department of Energy of the United States of America and the Ministry of the University and of Scientific and Technological Research of the Republic of Italy</i> | | | | | | | | | |
| Comment: | | | | | | | | | |

Country: Japan

| | | | | | | | | | |
|--|-----|-----------|-----------|---------------|--|-----|-------------------|---------------------------------------|---|
| 251 | 385 | 5/3/1996 | 5/3/2001 | Primary DOE | | 10 | Intergovernmental | Science and Technology | DOE/STA Basic Science & Technology |
| Title: <i>Implementing Arrangement between the Department of Energy of the United States of America and the Science and Technology Agency of Japan in the Field of Basic Science and Technology</i> | | | | | | | | | |
| Comment: Determine cooperation on joint projects in the field of basic S&T which may include nuclear physics; synchrotron radiation; medical application of the radiation produced by accelerators; spin physics program at the Relativistic Heavy Ion Collider and biologic effects of radiation. | | | | | | | | | |
| 166 | 195 | 12/3/1986 | 12/2/2001 | Primary DOE | | | None | Nuclear Energy | Radioactive Waste Management |
| Title: <i>Agreement between the United State Department of Energy and the Power Reactor and Nuclear Fuel Development Corp of Japan in the Area of Radioactive Waste Management</i> | | | | | | | | | |
| Comment: Study topics and develop cooperatively and jointly technology and techniques necessary for the safe management of radioactive wastes. | | | | | | | | | |
| 511 | 195 | 7/17/1998 | 7/17/2000 | Secondary DOE | | 166 | Primary DOE | Civilian Radioactive Waste Management | Project Annex on Engineered Barriers |
| Title: <i>Project Annex for Cooperation in Near-Field Performance and Analyses on the Long-Term Behavior of the Engineered Barriers under the Agreement between the Department of Energy of the United States of America and the Power Reactor and Nuclear Fuel Development Corporation Japan in the Area of Radioactive Waste Management</i> | | | | | | | | | |
| Comment: | | | | | | | | | |
| 395 (PNC) | 365 | 2/19/1997 | 5/19/2000 | Secondary DOE | | 171 | Primary DOE | Arms Control and Nonproliferation | Action Sheet 30 - Randomized Inspection |
| Title: <i>Action Sheet PNC 30 The United States Department of Energy (DOE) and The Power Reactor and Nuclear Fuel Development Corporation of Japan (PNC) for Joint Study of Improved Safeguards Methodology Using Non-Notice Randomized Inspection</i> | | | | | | | | | |
| Comment: | | | | | | | | | |

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|---|-------|------------|------------|----------------|-----------------|-----------|-------------|-----------------------------------|---|
| 545 | 365 | 12/18/1999 | 12/18/2000 | Secondary DOE | | 171 | Primary DOE | Arms Control and Nonproliferation | Action Sheet 37 - A-MAGB at Plutonium Fuel Production Facility |
| <p>Title: <i>Action Sheet 37 between the United States Department of Energy (DOE) and the Japan Nuclear Cycle Development Institute (JNC) for Development of Plutonium Isotopic Systems for Measuring Containers in the Advanced Material Accountancy Glove Box at PFPF</i></p> <p>Comment:</p> | | | | | | | | | |
| 546 | 365 | 12/18/1999 | 12/18/2000 | Secondary DOE | | 171 | Primary DOE | Arms Control and Nonproliferation | Action Sheet 38 - Remote Monitoring for Tokai |
| <p>Title: <i>Action Sheet 38 between the United States Department of Energy (DOE) and the Japan Nuclear Cycle Development Institute (JNC) for Development of Remote Monitoring for Tokai Vitrification Facility Safeguards System</i></p> <p>Comment:</p> | | | | | | | | | |
| 547 | 365 | 3/12/1999 | 3/12/2002 | Secondary DOE | | 171 | Primary DOE | Arms Control and Nonproliferation | Action Sheet 39 - Radiation Sensor Monitors at |
| <p>Title: <i>Action Sheet 39 between The United States Department of Energy (DOE) and The Japan Nuclear Cycle Development Institute (JNC) for Development of Radiation Sensor Monitors to Improve Dual C/S at Monju Reactor Core</i></p> <p>Comment:</p> | | | | | | | | | |
| 548 | 365 | 3/22/1999 | 3/22/2002 | Secondary DOE | | 171 | Primary DOE | Arms Control and Nonproliferation | Action Sheet 40 - Isotope Dilution Gamma-Ray Spectrometry |
| <p>Title: <i>Action Sheet (40) between The United States Department of Energy (DOE) and The Japan Nuclear Cycle Development Institute (JNC) for Joint Research and Development Study of the Metrology of the Isotope Dilution Gamma-Ray Spectrometry (IDGS)</i></p> <p>Comment:</p> | | | | | | | | | |
| 549 | 365 | 3/24/1999 | 9/24/2000 | Secondary DOE | | 171 | Primary DOE | Arms Control and Nonproliferation | Action Sheet 41 Conceptual Design for RETF Safeguards System Phase 2. |
| <p>Title: <i>Action Sheet 41 between The Japan Nuclear Cycle Development Institute (JNC) And The United States Department of Energy (DOE) For Joint Study on the Conceptual Design for the RETF Safeguards System (Phase-2)</i></p> <p>Comment:</p> | | | | | | | | | |
| 173 | 356 | 4/11/1995 | 4/11/2005 | Primary DOE | | | None | Nuclear Energy | Nuclear Reactor Technologies R&D |
| <p>Title: <i>Memorandum of Understanding between the United States Research and Development Organizations and the Japanese Research Organizations for Cooperation in Nuclear Reactor Technologies Research and Development</i></p> <p>Comment: Provide a vehicle for cooperation between DOE and its national laboratories, EPRI and the Advanced Reactor Corporation, and the Japanese R&D Organizations, including PNC, JAPC , JAERI and CRIEPI to cooperate in nuclear reactor technologies R&D.</p> | | | | | | | | | |
| 174 | 362 | 7/17/1995 | 7/17/2005 | Primary DOE | | | None | Nuclear Energy | Nuclear Research and Development - JAERI |
| <p>Title: <i>Agreement between the Department of Energy of the United States of America and the Japan Atomic Energy Research Institute in the Field of Nuclear Research and Development</i></p> <p>Comment: Cooperation to conduct programs associated with nuclear R&D in such areas as basic nuclear S&T, nuclear safety, and advanced nuclear technologies.</p> | | | | | | | | | |

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|---|-------|------------|-----------|----------------|-----------------|-----------|-------------|-----------------------------------|---|
| 397 for | 428 | 4/23/1998 | 4/23/2001 | Secondary DOE | | 174 | Primary DOE | High Energy Physics | Collaborative program for target development high power spallation neutron sources |
| Title: <i>Specific Memorandum of Agreement between the Japan Atomic Energy Research Institute and the Department of Energy of the United States of America for Collaborative Program of Target Development for High Power Spallation Neutron Sources</i> | | | | | | | | | |
| Comment: Work will be performed at the Alternating Gradient Synchrotron facility at Brookhaven National Laboratory | | | | | | | | | |
| 481 | 435 | 6/9/1997 | 6/9/2007 | Secondary DOE | | 174 | Primary DOE | Arms Control and Nonproliferation | SMA - Safeguards |
| Title: <i>Specific Memorandum of Agreement Between the Japan Atomic Energy Research Institute and the Department of Energy of the United States of America Concerning Research and Development in Nuclear Material Control, Accountancy, Verification and Physical Protection</i> | | | | | | | | | |
| Comment: | | | | | | | | | |
| 523 | 468 | 1/27/2000 | 1/27/2005 | Primary DOE | | | None | Arms Control and Nonproliferation | DOE/JNC Safeguards Agreement |
| Title: <i>Agreement between the Department of Energy of the United States of America and the Japan Nuclear Cycle Development Institute For Cooperation in Research and Development (R&D) Concerning Nuclear Material Control and Accounting Measures for Safeguards and Nonproliferation</i> | | | | | | | | | |
| Comment: Improving the efficiency and effectiveness of equipment and techniques for safeguards and nonproliferation to implement policies and procedures pursuant to the non-proliferation treaty. | | | | | | | | | |
| 550 Scrap | 482 | 1/27/2000 | 7/27/2001 | Secondary DOE | | 523 | Primary DOE | Arms Control and Nonproliferation | Action Sheet 42 Measurement Methods for Materials |
| Title: <i>Action Sheet 42 between The Japan Nuclear Cycle Development Institute (JNC) and The United States Department of Energy (DOE) For Investigation of Measurements Methods for Scrap Materials with High Impurities</i> | | | | | | | | | |
| Comment: | | | | | | | | | |
| 551 | 482 | 1/27/2000 | 1/27/2003 | Secondary DOE | | 523 | Primary DOE | Arms Control and Nonproliferation | Action Sheet 43 NDA Techniques at Ningyo |
| Title: <i>Action Sheet 43 between The United States Department of Energy (DOE) and The Japan Nuclear Cycle Development Institute (JNC) for Design Studies and Development of NDA Techniques for In-Process and Waste Invention at the Ningyo Enrichment Plant</i> | | | | | | | | | |
| Comment: | | | | | | | | | |
| 552 | 482 | 1/27/2000 | 1/27/2002 | Secondary DOE | | 523 | Primary DOE | Arms Control and Nonproliferation | Action Sheet 44 - Dry Reprocessing Methods |
| Title: <i>Action Sheet 44 between The Japan Nuclear Cycle Development Institute (JN) and The United States Department of Energy (DOE) for A Joint Study of Safeguards Systems for Dry Reprocessing</i> | | | | | | | | | |
| Comment: | | | | | | | | | |
| 553 PPPF | 482 | 1/27/2000 | 1/27/2003 | Secondary DOE | | 523 | Primary DOE | Arms Control and Nonproliferation | Action Sheet 45 Remote Monitoring System at |
| Title: <i>Action Sheet 45 between The United States Department of Energy (DOE) and The Japan Nuclear Cycle Development Institute (JNC) for Development of the Integrated Remote Monitoring System at the Plutonium Fuel Production Facility in Japan</i> | | | | | | | | | |
| Comment: | | | | | | | | | |

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|--|-------|------------|-----------|-------------------|-----------------|-----------|-------------------|---------------------------------------|---|
| 597 | 492 | 8/22/2000 | 8/22/2005 | Primary DOE | | | None | Nuclear Energy | Agreement for Nuclear Technologies |
| Title: <i>Agreement Between The Department of Energy of the United States of America and The Japan Nuclear Cycle Developments Institute in the Field of Nuclear Technologies.</i> | | | | | | | | | |
| Comment: | | | | | | | | | |
| 640 | 535 | 7/10/2002 | 7/10/2005 | Primary DOE | | | None | Civilian Radioactive Waste Management | Nuclear Waste Management Organization |
| Agreement | | | | | | | | | |
| (NUMO) | | | | | | | | | |
| Title: <i>Agreement between the Department of Energy of the United States of America and the Nuclear Waste Management Organization of Japan in the Field of Radioactive Waste Management</i> | | | | | | | | | |
| Comment: | | | | | | | | | |
| 643 | 538 | 9/2/2002 | 9/2/2005 | Primary DOE | | | None | | Agreement bet. DOE and the Japan Atomic |
| Energy | | | | | | | | | |
| Research Institute | | | | | | | | | |
| Title: <i>Specific Memorandum of Agreement between the Department of Energy of the United States of America and the Japan Atomic Energy Research Institute on Cooperation in the Field of Synchrotron Radiation Research</i> | | | | | | | | | |
| Comment: | | | | | | | | | |
| 653 | 548 | 3/19/2003 | 3/19/2008 | Primary DOE | | | None | Civilian Radioactive Waste Management | Radioactive Waste Management |
| Title: <i>Agreement between the Department of Energy of the United States of America and the Japan Nuclear Cycle Development Institute in the Field of Radioactive Waste Management</i> | | | | | | | | | |
| Comment: | | | | | | | | | |
| 657 | 552 | 8/18/2000 | 8/18/2005 | Amendment | | 263 | None | Fusion Energy | Amendment V |
| Title: <i>Amendment V to the Agreement between the Japan Atomic Energy Research Institute and the United States Department of Energy on Cooperation in Doublet III Project</i> | | | | | | | | | |
| Comment: | | | | | | | | | |
| 8 | 42 | 5/2/1979 | 5/1/2005 | Intergovernmental | | | None | Energy Research and Development | US/Japan Energy and Related Fields |
| Agreement | | | | | | | | | |
| Title: <i>Agreement between the Government of the United States of America and the Government of Japan on Cooperation in Research and Development in Energy and Related Fields</i> | | | | | | | | | |
| Comment: Maintaining and intensifying cooperation in research and development in energy and related fields. | | | | | | | | | |
| 22 | 114 | 1/24/1983 | 5/1/2005 | Broad | | 8 | Intergovernmental | Fusion Energy | Fusion Energy |
| Title: <i>Exchange of Notes establishing the Cooperation in Fusion Research and Development</i> | | | | | | | | | |
| Comment: A cooperative program for the exchange of information, personnel and equipment, and special activities as may be mutually agreed, in various technical areas of fusion energy between DOE and the Ministry of Education, the STA, MONBUSHO, and the MITI, as established by an exchange of diplomatic notes and separate agreements within each organization. Remains in force as long as the Agreement between US-Japan on Cooperation in Research and Development in Energy and Related Fields remains in force. | | | | | | | | | |
| 255 | 116 | 1/25/1983 | 5/1/2005 | Primary DOE | | 22 | Broad | Fusion Energy | Fusion Energy - MITI |
| Title: <i>Exchange of Letters establishing the MITI-DOE Cooperation in Fusion Research and Development</i> | | | | | | | | | |
| Comment: Remains in effect as long as the Exchange of Notes between USA-Japan on Cooperation in Fusion Research and Development | | | | | | | | | |

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| ID | File# | Start Date | End Date | Agreement Type | Legally Binding | Parent ID | Parent Type | Subject | Brief Description |
|---|-------|------------|-----------|----------------|-----------------|-----------|---------------|---------------|---|
| 256 | 117 | 1/25/1983 | 5/1/2005 | Primary DOE | | 22 | Broad | Fusion Energy | Fusion Energy - STA - Primary DOE agreement |
| Title: <i>Exchange of Letters establishing the STA-DOE Cooperation in Fusion Research and Development</i> | | | | | | | | | |
| Comment: Remains in effect as long as the Exchange of Notes between USA-Japan on Cooperation in Fusion Research and Development | | | | | | | | | |
| 417 | 134 | 11/8/1983 | 5/1/2005 | Secondary DOE | | 256 | Primary DOE | Fusion Energy | Fusion Research and Development - JAERI |
| Title: <i>Implementing Arrangement between the Japan Atomic Energy Research Institute and the United States Department of Energy on Cooperation in Fusion Research and Development</i> | | | | | | | | | |
| Comment: Appoint coordinators to report to Fusion Committee and to cooperate in such areas as plasma-containment devices, such as tokamaks; joint research related to plasma physics; magnetic fusion concepts; magnetic systems for fusion devices; plasma engineering; fusion-reactor materials; fusion-systems engineering; environmental and safety aspects of fusion energy; plasma diagnostics and vacuum technology; and applications of fusion energy. | | | | | | | | | |
| 463 | 133 | 11/8/1983 | 3/31/2004 | Tertiary DOE | | 417 | Secondary DOE | Fusion Energy | Annex 1 - First Wall and Blanket Structural |
| Title: <i>Annex I to Implementing Arrangement between Japan Atomic Energy Research Institute and U.S. Department of Energy on Cooperation in Fusion Research and Development U.S.-Japan Collaborative Testing of First Wall and Blanket Structural Materials with Mixed Spectrum Fission Reactors</i> | | | | | | | | | |
| Comment: JOINT IRRADIATION EXPERIMENTS AND EVALUATION OF RESULTS. | | | | | | | | | |
| 466 | 210 | 6/11/1987 | 6/11/2001 | Tertiary DOE | | 417 | Secondary DOE | Fusion Energy | Annex 4 - Fusion - Fuel Processing |
| Title: <i>Annex IV to the Implementing Arrangement between the Japan Atomic Energy Research Institute and the United States Department of Energy on Cooperation in Fusion Research and Development for the DOE-JAERI Collaborative Program Technology for Fusion-Fuel Processing</i> | | | | | | | | | |
| Comment: Define, conduct, evaluate the joint operation/experiments on fusion fuel technology with TSTA at LANL for the purposes of developing and demonstrating fuel process technology for fusion power systems; developing/testing environmental/personnel protective systems for tritium handling; developing/testing/qualifying equipment and material for tritium services in the fusion energy program, | | | | | | | | | |
| 471 | 270 | 1/11/1990 | 1/11/2005 | Tertiary DOE | | 417 | Secondary DOE | Fusion Energy | Annex 9 - Data Link |
| Title: <i>Annex IX to the Implementing Arrangement between the Japan Atomic Energy Research Institute and United States Department of Energy on Cooperation in Fusion Research and Development for the DOE-JAERI Collaboration on the Data Link</i> | | | | | | | | | |
| Comment: Establish the Data Link to facilitate rapid information exchanges between fusion researchers of the Parties through (1) code development and/or usage; (2) data analysis and/or theory/experiment comparison; (3) access to computers in home countries by visiting scientists for computations related to purpose of visit; (4) administration of the Data Link. VISITS: Yes DURATION: To Be Determined DOE/HQ CONTACT: Arthur Katz, ER-523, (301) 903-4932; FTS: 233-4932 | | | | | | | | | |
| 257 | 115 | 1/29/1983 | 5/1/2005 | Primary DOE | | 22 | Broad | Fusion Energy | Fusion Energy - Monbusho - Primary DOE |
| Title: <i>Exchange of Letters establishing the Monbusho-DOE Cooperation in Fusion Research and Development</i> | | | | | | | | | |
| Comment: Remains in effect as long as the Exchange of Notes between USA-Japan on Cooperation in Fusion Research and Development | | | | | | | | | |
| 419 | 214 | 7/17/1987 | 7/19/2001 | Secondary DOE | | 257 | Primary DOE | Fusion Energy | Annex 1 - Irradiation Effects Utilizing Fission |
| Title: <i>Annex I to 01/25/83 exchange of letters between Japan Ministry of Education (Monbusho) and USDOE on cooperation in fusion R&D for collaboration in fundamental studies of irradiation effects in fusion materials utilizing fission</i> | | | | | | | | | |
| Comment: JOINT IRRADIATION AND EVALUATION EXPERIMENTS ON MATERIALS | | | | | | | | | |

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|-----|-------|------------|-----------|----------------|-----------------|-----------|-------------------|---------------------|--|
| 420 | 258 | 12/12/198 | 12/21/200 | Secondary DOE | | 257 | Primary DOE | Fusion Energy | Annex 2 - Data Link & Data Link Projects for Title: <i>Annex II to the January 25, 1983 Exchange of Letters between Monbusho of Japan and the Department of Energy of the United States on Cooperation in Fusion Research and Development Monbusho-DOE Collaboration on a data Link and Data Link Projects for Fusion</i> Comment: STEERING COMMITTEE MEETING |
| 602 | 497 | 1/17/2001 | 7/19/2007 | Secondary DOE | | 257 | Primary DOE | Fusion Energy | Amedment 4 - Annex 1 Fusion Research and Development Title: <i>Amendment 4 of Annex I to the DOE - Monbusho Exchange of Letters on Cooperation in Fusian Research and Development</i> Comment: |
| 259 | 228 | 10/16/198 | 5/1/2005 | Primary DOE | | 8 | Intergovernmental | Fossil Energy | Coal R&D - AIST and ANRE Title: <i>Implementing Arrangement between the Agency of Industrial Science and Technology and the Agency of Natural Resources and Energy of Japan and the United States Department of Energy in Coal Research and Development</i> Comment: Establish comprehensive cooperation in the area of coal energy R&D in order to accelerate development of coal R&D efforts, i.e., coal liquefaction, coal gasification; materials and components for coal conversion and utilization; pollution control technology related to coal conversion and utilization. |
| 262 | 48 | 8/24/1979 | 5/1/2005 | Primary DOE | | 8 | Intergovernmental | Fusion Energy | Fusion Energy/Coordinating Committee Title: <i>Exchange of Letters Establishing a Coordinating Committee on Fusion Energy</i> Comment: Establish a Coordinating Committee on Fusion Energy to facilitate the coordination and implementation of cooperative activities in the area of fusion as well as to assure proper balance and to ensure the overall planning and oversight of such cooperative activities. |
| 263 | 50 | 8/28/1979 | 8/28/2000 | Primary DOE | | 8 | Intergovernmental | Fusion Energy | Fusion Energy/Doublet III Title: <i>Agreement between the United States Department of Energy and the Japan Atomic Energy Research Institute on Cooperation in Doublet III Project</i> Comment: Undertake experimental research on tokamak plasmas with doublet and dee-shaped cross-sections in the Doublet III, a tokamak facility, located in LaJolla, California. |
| 264 | 58 | 11/11/197 | 5/1/2005 | Primary DOE | | 8 | Intergovernmental | High Energy Physics | High Energy Physics Title: <i>Implementing Arrangement between the Department of Energy of the United States of America and the Ministry of Education, Science and Culture of Japan on Cooperation in Field of High Energy Physics</i> Comment: Establish a framework for cooperation in the field of high energy physics including research; accelerator and detector instrumentation R&D; the fabrication and subsequent use of new experimental devices and facilities. Remains in forces for the duration of the U.S.-Japan R&D in Energy and Related Fields Agreement signed on May 2, 1979 |

Country: Kazakhstan

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|-----|-----|-----------|--|-------------|--|--|------|------------------------|--|
| 186 | 402 | 7/12/1996 | | Primary DOE | | | None | Science and Technology | Energy R&D and Tech exchange Title: <i>Agreement between the Department of Energy of the United States of America and the Ministry of Science-Academy of Sciences of the Republic of Kazakhstan on Scientific Research and Development and Technology Exchange Programs</i> Comment: |
|-----|-----|-----------|--|-------------|--|--|------|------------------------|--|

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| ID | File# | Start Date | End Date | Agreement Type | Legally Binding | Parent ID | Parent Type | Subject | Brief Description |
|---|-------|------------|-----------|----------------|-----------------|-----------|-------------------|-----------------------------------|---|
| 428 | 402 | 5/13/1997 | | Secondary DOE | | 186 | Primary DOE | *Other - Remote Sensing | Remote Sensing Mission |
| Title: <i>Annex 1 - For the Conduct of the Remote Sensing Mission (AMPS) in the Republic of Kazakhstan</i> | | | | | | | | | |
| Comment: | | | | | | | | | |
| 529 | 474 | 12/19/200 | | Primary DOE | | | None | Arms Control and Nonproliferation | Decommissioning of the BN-350 Reactor |
| Title: <i>Implementing Arrangement between the Department of Energy of the United States of America and the Ministry of Energy, Industry and trade of the Republic of Kazakhstan Concerning Decommissioning of the BN-350 Reactor</i> | | | | | | | | | |
| Comment: | | | | | | | | | |
| Country: <u><i>Korea, Republic of</i></u> | | | | | | | | | |
| 180 | 389 | 6/14/1996 | 6/14/2001 | Primary DOE | | 11 | Intergovernmental | Fusion Energy | Fusion Energy Research and Related Fields |
| Title: <i>Implementing Arrangement between the Department of Energy of the United States of America and the Ministry of Science and Technology of the Republic of Korea for Cooperation in the Area of Fusion Energy Research and Related Fields</i> | | | | | | | | | |
| Comment: Promote S&T cooperation in fusion energy research and related fields in order to enhance contributions. Remains in force for 5 years or until termination of the S&T Agreement, whichever occurs first. | | | | | | | | | |
| 626 | 521 | 6/14/2001 | 6/14/2006 | Secondary DOE | | 180 | Primary DOE | Fusion Energy | Extension on the Implementing Arrangement between DOE and Korea |
| Title: <i>Agreement to Extend the Implementing Arrangement between the Department of Energy of the United States of America and the Ministry of Science and Technology of the Republic of Korea for Cooperation in the Area of Fusion Energy Research and Related Fields</i> | | | | | | | | | |
| Comment: | | | | | | | | | |
| 179 | 388 | 6/14/1996 | 6/14/2001 | Primary DOE | | | None | Nuclear Energy | Cooperative Laboratory Relationship |
| Title: <i>Memorandum of Understanding between the Department of Energy of the United States of America and the Ministry of Science and Technology of the Republic of Korea for a Cooperative Laboratory Relationship</i> | | | | | | | | | |
| Comment: Cooperate in the field of peaceful uses of nuclear energy including such areas as: nuclear waste management; nuclear safety and environment; nuclear safeguards technology; basic sciences; education; health physics; environmental research related to nuclear technology, etc | | | | | | | | | |
| 595 | 388 | 6/29/2000 | 6/29/2005 | Secondary DOE | | 179 | Primary DOE | Nuclear Energy | Annex 4 - Cintichem Process Technology (first project annex) |
| Title: <i>Annex 4 Joint Project on Cintichem Technology between the Department of Energy of the United States of America and the Korea Atomic Energy Research Institute under the Memorandum of Understanding between the Department of Energy of the United States of America and the Ministry of Science and Technology of the Republic of Korea for a Cooperative Laboratory Relationship</i> | | | | | | | | | |
| Comment: | | | | | | | | | |

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| ID | File# | Start Date | End Date | Agreement Type | Legally Binding | Parent ID | Parent Type | Subject | Brief Description |
|-------------------------------|-------|------------|-----------|-------------------|-----------------|-----------|-------------------|---------------------------------|--|
| 608 | 503 | 5/16/2001 | 5/16/2006 | Secondary DOE | | 179 | Primary DOE | Nuclear Energy | Annex V - MOU between DOE and Ministry of Science and Technology of the Republic of Korea on I-NERI Title: <i>Annex V to the Memorandum of Understanding between the Department of Energy of the United States of America and the Ministry of Science and Technology of the Republic of Korea for a Cooperative Laboratory Relationship on a Collaboration Project Supporting the International Nuclear Energy Research Initiative (INERI)</i> Comment: |
| 609 | 504 | 5/16/2001 | 6/14/2001 | Secondary DOE | | 179 | Primary DOE | Nuclear Energy | Amendment C to Annex III Participating Institutions Science to the MOU between DOE and Ministry and Technology Title: <i>Amendment C to Annex III - Participating Institutions to the Memorandum of Understanding between the Department of Energy of the United States of America and the Ministry of Science and Technology of the Republic of Korea for a Cooperative Laboratory Relationship</i> Comment: |
| 644 | 539 | 6/14/2001 | 6/14/2006 | Secondary DOE | | 179 | Primary DOE | Science and Technology | Extend and Amend MOU bet. DOE and MOST Title: <i>Agreement to Extend and Amend the Memorandum of Understanding between the Department of Energy of the United States of America and the Ministry of Science and Technology of the Republic of Korea for a Cooperative Laboratory Relationship</i> Comment: |
| 639 | 534 | 9/17/2002 | 9/17/2007 | Primary DOE | | | None | Science and Technology | Safeguards Agreement Title: <i>Arrangement between the Department of Energy of the United States of America and the Ministry of Science and Technology of the Republic of Korea Concerning Research and Development in Nuclear Material Control, Accountancy, Verification, Physical Protection, and Advanced Containment and Surveillance Technologies for International Safeguards Applications</i> Comment: |
| Country: <u>Mexico</u> | | | | | | | | | |
| 12 | 41 | 6/15/1972 | | Intergovernmental | | | | Science and Technology | Science & Technology Title: <i>Agreement Between the United States of America and Mexico for Scientific and Technical Cooperation</i> Comment: Effected by Exchange of Notes Signed at Washington June 15, 1972 |
| 270 | 386 | 5/7/1996 | 5/7/2001 | Primary DOE | | 12 | Intergovernmental | Energy Research and Development | Energy Cooperation Title: <i>Agreement between the Department of Energy of the United States of America and the Secretariat of Energy of the United Mexican States for Energy Cooperation</i> Comment: Develop a framework for cooperation to facilitate establishment of cooperative activities in research, development and commercialization to promote improved use of renewable energy and energy efficiency and fossil energy technologies, giving due consideration to environmental concerns, as well as to exchange, develop, and analyze energy strategies and regulatory criteria and to encourage the promotion of energy trade opportunities. |

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|--|-------|------------|-----------|----------------|-----------------|-----------|-------------|--|--|
| 483 | 437 | 6/10/1998 | 6/10/2001 | Secondary DOE | | 270 | Primary DOE | Energy Efficiency and Renewable Energy | Annex 1 - Renewable Energy |
| Title: <i>Project Annex 1 Cooperation in the Field of Renewable Energy</i> | | | | | | | | | |
| Comment: Project areas under discussion by SNL and CNEA (Mexico National Commission for Energy Savings) | | | | | | | | | |
| 484 | 438 | 6/10/1998 | 6/10/2001 | Secondary DOE | | 270 | Primary DOE | Energy Efficiency and Renewable Energy | Annex 2 - Energy Efficiency |
| Title: <i>Project Annex 2 Cooperation in the Field of Energy Efficiency</i> | | | | | | | | | |
| Comment: Project areas under discussion. | | | | | | | | | |
| 498 | 447 | 10/21/199 | 10/21/200 | Secondary DOE | | 270 | Primary DOE | Environmental Restoration and Waste Management | Annex 3 - Enviro Cooperation in hydrocarbons |
| Title: <i>Project Annex 3 - Environmental Cooperation in the Field of Hydrocarbons</i> | | | | | | | | | |
| Comment: Facilitating work between Mexico Institute of Petroleum and ORNL. | | | | | | | | | |
| 519 | 465 | 12/7/1999 | 5/7/2001 | Secondary DOE | | 270 | Primary DOE | Fossil Energy | Annex 4- Clean Fossil Energy Technologies |
| Title: <i>Project Annex 4 Cooperation in the field of Clean Fossil Energy Technologies</i> | | | | | | | | | |
| Comment: Annex is in force as long as the Agreement is in force. | | | | | | | | | |
| 610 | 505 | 5/7/2001 | 5/7/2006 | Secondary DOE | | 270 | Primary DOE | Science and Technology | |
| Title: <i>Extension of the Agreement for Energy Cooperation between the Department of Energy of the United States of America and the Secretariat of Energy of the United Mexican States, and its Four</i> | | | | | | | | | |
| Comment: | | | | | | | | | |
| 188 | 405 | 3/25/1985 | 3/25/2005 | Primary DOE | | | None | Arms Control and Nonproliferation | Sister Lab Arrangement |
| Title: <i>Memorandum of Understanding (MOU) for the Exchange of Technical Information and for Cooperation in the Field of Peaceful Uses of Nuclear Energy between the National Institute of Nuclear Research of Mexico and the Los Alamos National laboratory of the United States of America</i> | | | | | | | | | |
| Comment: Sister lab arrangement supporting Article IV of the NPT. | | | | | | | | | |
| 604 | 499 | 3/9/2001 | | Broad | | | None | Fifth Hemispheric Energy Ministers Meeting | Mexico Declaration |
| Title: <i>Fifth Hemispheric Energy Ministers Meeting Mexico City, Mexico - March 9, 2001. Mexico Declaration - Energy: A Crucial Factor for Integration and Sustainable Development in the Hemisphere</i> | | | | | | | | | |
| Comment: | | | | | | | | | |

Country: Morocco

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|---|-----|-----------|-----------|-------------|--|--|------|--|---|
| 599 | 494 | 10/16/200 | 10/16/200 | Primary DOE | | | None | Energy Efficiency and Renewable Energy | Agreement on Concerning Cooperation in Energy Efficiency and Renewable Energy |
| Title: <i>Agreement Between The Department of Energy of the United States of America and The Ministry of Industry, Commerce, Energy and Mines of the Kingdom of Morocco Concerning Cooperation in Energy Efficiency and Renewable Energy</i> | | | | | | | | | |
| Comment: | | | | | | | | | |

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|--|-------|------------|-----------|----------------|-----------------|-----------|-------------|--|---|
| 627 | 522 | 10/16/200 | 10/16/200 | Secondary DOE | | 599 | Primary DOE | Energy Efficiency and Renewable Energy | Project Annex I - EERE |
| Title: <i>Project Annex I to the Agreement between the Department of Energy of the United States of America and the Ministry of Industry, Commerce, Energy and Mines of the Kingdom of Morocco Concerning Cooperation in Energy Efficiency and Renewable Energy</i> | | | | | | | | | |
| Comment: | | | | | | | | | |
| 647 | 542 | 6/3/2002 | 6/3/2007 | Secondary DOE | | 599 | Primary DOE | Energy Efficiency and Renewable Energy | Project Annex 2 - Clean Energy Technologies |
| Title: <i>Project Annex 2 to the Agreement between the Department of Energy of the United States of America and the Ministry of Industry, Commerce, Energy and Mines of the Kingdom of Morocco Concerning Cooperation in Clean Energy Technologies</i> | | | | | | | | | |
| Comment: | | | | | | | | | |

Country: Nigeria

| | | | | | | | | | |
|--|-----|-----------|--|---------------------|--|--|------|---------------------------------|----------------------|
| 48 | 76 | 7/23/1980 | | Statement of Intent | | | None | Energy Research and Development | Energy R&D |
| Title: <i>Memorandum of Intent Concerning Energy Cooperation between the Government of the United States of America and the Government of the Federal Republic of Nigeria</i> | | | | | | | | | |
| Comment: Exploit and use conventional sources of energy, develop effective machinery to monitor environmental effects of energy, develop and demonstrate technologies to utilize new and renewable energy sources, training in energy planning and technology and strengthen bilateral relations through increased official cooperation. Formal cooperation never establish | | | | | | | | | |
| 520 | 466 | 8/14/1999 | | Primary DOE | | | None | *Other - Energy Policy | MOU on Energy Policy |
| Title: <i>Memorandum of Understanding between the Department of Energy of the United States of America and the Federal Ministry of Power and Steel of the Federal Republic of Nigeria on Energy Policy</i> | | | | | | | | | |
| Comment: | | | | | | | | | |

Country: Pakistan

| | | | | | | | | | |
|---|-----|-----------|--|---------------------|--|--|------|-------------------------|--|
| 49 | 339 | 9/24/1994 | | Statement of Intent | | | None | *Other - Climate Change | Climate Change |
| Title: <i>Joint Statement of Intent between the Department of Energy of the United States of America and the Environment and Urban Affairs Division of the Islamic Republic of Pakistan</i> | | | | | | | | | |
| Comment: Enhancing mutual environmental protection, in particular, controlling greenhouse gas emissions to limit potential adverse climate change impacts (Environment and Urban Affairs Division). | | | | | | | | | |
| 50 | 338 | 9/24/1994 | | Statement of Intent | | | None | Fossil Energy | Statement of Intent w/ Ministry of Petroleum and Natural Resources |
| Title: <i>Statement of Intent between the Department of Energy of the United States of America and the Ministry of Petroleum and Natural Resources, Government of the Islamic Republic of Pakistan</i> | | | | | | | | | |
| Comment: Promoting trade, investment and cooperation between U.S. & Pakistan (Min of Petroleum and Natural Resources) public and private-sector entities in the fields of fossil fuels (petroleum and minerals, including coal) and new and renewable energy resources, related infrastructure development, and in the exchange of experience and views on opportunities in these sectors. | | | | | | | | | |

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|---|-------|------------|----------|---------------------|-----------------|-----------|-------------|--|--|
| 51 | 340 | 9/24/1994 | | Statement of Intent | | | None | Energy Efficiency and Renewable Energy | Statement of Intent w/ Ministry of Water and Power |
| <p>Title: <i>Statement of Intent between the Department of Energy of the United States of America and the Ministry of Water and Power of the Islamic Republic of Pakistan</i></p> <p>Comment: Promoting trade, investment and cooperation between the U.S. and Pakistan (Ministry of Water and Power) private and public sector entities in the fields of fossil and renewable energy, and in the exchange of experience and views on opportunities for improving energy efficiency and enhancing electricity policy.</p> | | | | | | | | | |

Country: Palestinian Authority

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|--|-----|-----------|--|---------------------|--|--|------|---------------------------------|---------------------|
| 535 | 479 | 2/22/2000 | | Statement of Intent | | | None | Energy Research and Development | Energy Planning SOI |
| <p>Title: <i>Joint Statement of Intent between the Department of Energy of the United States of America and the Palestinian Energy Authority on Cooperation in the Field of Energy</i></p> <p>Comment:</p> | | | | | | | | | |

Country: Peru

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|--|-----|-----------|-----------|---------------------|--|--|------|------------------------------------|--|
| 512 | 458 | 6/17/1991 | 6/16/2001 | Primary DOE | | | None | Arms Control and Nonproliferation | Sister Lab Arrangement |
| <p>Title: <i>Arrangement for the Exchange of Technical Information and for Cooperation in the Field of Peaceful Uses of Nuclear Energy between the Peruvian Institute of Nuclear Energy and the Los Alamos National Laboratory</i></p> <p>Comment:</p> | | | | | | | | | |
| 603 | 498 | 3/8/2001 | | Statement of Intent | | | None | Cooperation in the Field of Energy | Cooperation in the Field of Energy |
| <p>Title: <i>Joint Statement of Intent between the Department of Energy of the United States of America and The Ministry of Energy and Mines of the Republic of Peru on Cooperation in the Field of Energy</i></p> <p>Comment:</p> | | | | | | | | | |
| 645 | 540 | 8/14/2001 | 8/14/2006 | Primary DOE | | | None | Science and Technology | MOU - Cooperation in the Field of Energy |
| <p>Title: <i>Memorandum of Understanding between the Department of Energy of the United States of America and the Ministry of Energy and Mines of the Republic of Peru on Cooperation in the Field of Energy</i></p> <p>Comment:</p> | | | | | | | | | |

Country: Philippines

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|--|-----|-----------|-----------|-------------|--|--|------|---------------------------------------|---------------|
| 195 | 403 | 6/19/1997 | 6/19/2002 | Primary DOE | | | None | Information and/or Personnel Exchange | Info Exchange |
| <p>Title: <i>Memorandum of Agreement between the Department of Energy of the United States of America and the Department of Energy of the Republic of the Philippines for the Exchange of Energy</i></p> <p>Comment:</p> | | | | | | | | | |

Country: Poland

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|---|-------|------------|-----------|-------------------|-----------------|-----------|-------------|--|---|
| 13 | 224 | 9/28/1987 | 9/28/2002 | Intergovernmental | | | None | Science and Technology | Science & Technology |
| <p>Title: <i>Agreement between the Government of the United States of America and the Government of the Polish People's Republic on Cooperation in Science and Technology and its Funding</i></p> <p>Comment: Develop, support and facilitate S&T cooperation on the basis of the principles of equality, reciprocity, and mutual benefit. Joint projects of mutual interest are funded by a fund contributed to by the two governments. Renewed last in 1997.</p> | | | | | | | | | |
| 198 Mgmt | 367 | 8/21/1995 | 8/21/2000 | Primary DOE | | | None | Environmental Restoration and Waste Management | Environmental Restoration Hazardous Waste |
| <p>Title: <i>Agreement for Technical Exchange and Cooperating between the Department of Energy of the United States of America and the Institute for Ecology of Industrial Areas of the Republic of Poland in the Area of Environmental Restoration and Hazardous Waste Management</i></p> <p>Comment: Study topics associated with the safe management of hazardous wastes, e.g., risks associated with human exposure to environmental contamination from chemical and heavy metals in soils; demonstration of technologies or methodologies for soil cleaning; and other areas determined by both parties.</p> | | | | | | | | | |

Country: Romania

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|---|-----|-----------|-----------|-------------|--|--|------|-----------------------------------|------------------------|
| 513 | 459 | 3/29/1999 | 3/26/2004 | Primary DOE | | | None | Arms Control and Nonproliferation | Sister Lab Arrangement |
| <p>Title: <i>Arrangement for Information Exchange and Cooperation in Area of Peaceful Uses of Atomic Energy between United States Department of Energy (DOE) and the Ministry of Industry and Commerce (MIC) - Romania</i></p> <p>Comment: Establishes the basis for a cooperative institutional relationship between the participants for the exchange of scientific and technological and other information regarding the peaceful uses of atomic</p> | | | | | | | | | |

Country: Russian Federation

| | | | | | | | | | |
|--|-----|-----------|-----------|-------------|--|----|-------------------|--|-------------------------------------|
| 203 Management | 395 | 9/16/1996 | 9/16/2001 | Primary DOE | | 14 | Intergovernmental | Environmental Restoration and Waste Management | Environmental Restoration and Waste |
| <p>Title: <i>Memorandum of Cooperation between the Department of Energy of United States of America and the Ministry of the Russian Federation on Atomic Energy in the Fields of Environmental Restoration and Waste Management</i></p> <p>Comment:</p> | | | | | | | | | |
| 211 | 396 | 9/16/1996 | 9/16/2001 | Primary DOE | | 14 | Intergovernmental | Nuclear Energy | Nuclear Reactor Safety |
| <p>Title: <i>Memorandum of Cooperation between the United States of America and the Russian Federation in the Field of Civilian Nuclear Reactor Safety</i></p> <p>Comment: replaces MOU in Civilian Nuclear Reactor Safety signed 26 April, 1988</p> | | | | | | | | | |
| 213 | 397 | 9/16/1996 | 9/16/2001 | Primary DOE | | 14 | Intergovernmental | Fusion Energy | Magnetic Confinement Fusion |
| <p>Title: <i>Memorandum of Cooperation between the Department of Energy of the United States of America and the Ministry of the Russian Federation on Atomic Energy in the Field of Magnetic Confinement Fusion</i></p> <p>Comment: Focus on Fusion science research and development</p> | | | | | | | | | |

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|---|-------|------------|-----------|-------------------|-----------------|-----------|-------------------|--|--|
| 436 | 397 | 9/16/1996 | 9/16/2001 | Secondary DOE | | 213 | Primary DOE | Nuclear Energy | Annex 1 |
| Title: <i>Annex 1 - List of Organizations that could participate</i> | | | | | | | | | |
| Comment: | | | | | | | | | |
| 214 | 398 | 2/17/1997 | 2/17/2002 | Primary DOE | | 14 | Intergovernmental | *Other - High Energy and Nuclear Physics | Fundamental Properties of Matter |
| Title: <i>Memorandum of Cooperation in the Field of Research on Fundamental Properties of Matter between the Department of Energy of the United States of America and the Ministry of Atomic Energy and the State Committee for Science & Technologies of the Russian Federation</i> | | | | | | | | | |
| Comment: activities coordinated by the Joint Coordinating Committee for Research in the Fundamental Properties of Matter (FCC-FPM) | | | | | | | | | |
| 15 | 315 | 2/18/1993 | | Intergovernmental | | | None | Nuclear Energy | Disposition HEU Extracted From Nuclear Weapons |
| Title: <i>Agreement between the Government of the United States of America and the Government of the Russian Federation Concerning the Disposition of Highly Enriched Uranium Extracted from Nuclear Weapons</i> | | | | | | | | | |
| Comment: Conversion of HEU extracted from nuclear weapons resulting from the reduction of nuclear weapons; the establishment of appropriate measures to fulfill the nonproliferation, physical protection, nuclear material accounting and control, and environmental requirements with respect to HEU and LEU. | | | | | | | | | |
| 202 | 394 | 9/16/1996 | 9/16/2001 | Primary DOE | | | None | *Other - Fuel Cell Technology | RAFCO |
| Title: <i>Agreement between the Department of Energy of the United States of America and the Ministry of the Russian Federation on Atomic Energy Regarding a Russian-American Fuel Cell Consortium</i> | | | | | | | | | |
| Comment: Joint R&D work in fuel cell technology development | | | | | | | | | |
| 208 | 324 | 1/14/1994 | 1/14/2004 | Intergovernmental | | | None | Environmental Safety Health | Radioactive Contamination Health & Environment |
| Title: <i>Agreement between the Government of the United States of America and the Government of the Russian Federation on Cooperation in Research on Radiation Effects for the Purpose of Minimizing the Consequences of Radioactive Contamination on Health and the Environment</i> | | | | | | | | | |
| Comment: Establish a framework for cooperation in research on radiation effects for the purpose of minimization of the consequences of radioactive contamination on health and the environment. DOE is the Executive Agent and is responsible for coordination of activities to implement the agreement. | | | | | | | | | |
| 210 | 360 | 6/16/1995 | | Primary DOE | | | None | Arms Control and Nonproliferation | Nonproliferation of Weapons/Weapons Expertise |
| Title: <i>Memorandum of Agreement between the Department of Energy of the United States of America and the International Science and Technology Center in the Russian Federation for Cooperation in Approved Projects to Facilitate the Nonproliferation of Weapons and Weapons Expertise</i> | | | | | | | | | |
| Comment: Facilitate cooperation under the ISTC agreement including the efforts to reduce or eliminate weapons of mass destruction in a safe and secure manner. | | | | | | | | | |
| 209 | 359 | 6/15/1995 | | Secondary DOE | | 210 | Primary DOE | Fusion Energy | Annex 1 Weapons Expertise for the Globus-M |
| Title: <i>Annex I to the Memorandum of Agreement between the Department of Energy of the United States of America and the International Science and Technology Center in the Russian Federation Concerning Cooperation in Approved Projects to Facilitate the Nonproliferation Weapons and Weapons Expertise for the Globus-M Project</i> | | | | | | | | | |
| Comment: Cooperate to support the A.F. IOFFE Physics-Technical Institute in the completion of the GLOBUS-M project by participating in the modification (or reconstruction) of the experimental hall of the Institute in order to accommodate the new GLOBUS-M spherical tokamak device and the near-by supporting equipment, the buildings that house all the other device supporting systems, and the connections/conduits between the experimental hall and those buildings needed by the GLOBUS-M project. | | | | | | | | | |

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|--|-------|------------|-----------|-------------------|-----------------|-----------|---------------|--|---|
| 536 | 480 | 6/22/1999 | 6/22/2001 | Secondary DOE | | 210 | Primary DOE | Fusion Energy | ISTC Annex III -Advanced Diagnostics equipment for Spherical Tokamak Globus-M |
| Title: <i>Annex III to the Memorandum of Agreement between the Department of Energy of the United States of America and the International Science and Technology Center in the Russian Federation Concerning Cooperation in Approved Projects to Facilitate the Nonproliferation of Weapons and Weapons Expertise for Advanced Diagnostics Equipment for Spherical Tokamak Globus-M (ISTC Project No. 1126)</i> | | | | | | | | | |
| Comment: | | | | | | | | | |
| 435 | 328 | 3/16/1994 | | Primary DOE | | | None | Nuclear Energy | Replacement of Russian Pu Production Reactors |
| Title: <i>Protocol of Meeting between the United States and the Russian Federation on the Replacement of Russian Plutonium Production Reactors</i> | | | | | | | | | |
| Comment: Plan for replacement of plutonium production reactors with alternate energy sources. | | | | | | | | | |
| 515 | 461 | 9/22/1998 | 9/22/2003 | Intergovernmental | | | None | Arms Control and Nonproliferation | Nuclear Cities Initiative |
| Title: <i>Agreement between the Government of the United States of America and the Government of the Russian Federation on the Nuclear Cities Initiative</i> | | | | | | | | | |
| Comment: DOE is the US Executive Agent for the carrying out provisions of the agreement. Ministry of the Russian Federation for Atomic Energy is the Executive agent for Russia | | | | | | | | | |
| 518 | 464 | 3/24/1999 | 3/24/2004 | Primary DOE | | | None | Science and Technology | MOU w/ Russian Academy of Sciences |
| Title: <i>Memorandum of Understanding between the Department of Energy of the United States of America and the Russian Academy of Sciences on Cooperation in Science and Technology</i> | | | | | | | | | |
| Comment: | | | | | | | | | |
| 565 | 488 | 5/15/2000 | 3/24/2004 | Secondary DOE | | 518 | Primary DOE | Environmental Restoration and Waste Management | DOE/RAS Implementing Arrangement 1 |
| Title: <i>Implementing Arrangement #1 Under the Memorandum of Understanding between the United States Department of Energy and the Russian Academy of Sciences on Cooperation in Science and Technology - Geologic Analogues, Migration and Accumulation of Radionuclides in Geologic Media</i> | | | | | | | | | |
| Comment: | | | | | | | | | |
| 590 | 488 | 5/16/2000 | 9/20/2002 | Tertiary DOE | | 565 | Secondary DOE | Environmental Restoration and Waste Management | Appendix D - Uranium Mass Transport Phenomena |
| Title: <i>Appendix D Implementing Arrangement #1 of the U.S. Department of Energy/Russian Academy of Sciences Memorandum of Understanding Uranium Mass Transport Phenomena in Fractured Welded Tuffs</i> | | | | | | | | | |
| Comment: | | | | | | | | | |
| 593 | 488 | 5/18/2000 | 9/30/2003 | Tertiary DOE | | 565 | Secondary DOE | Civilian Radioactive Waste Management | Appendix G - Interaction of Actinides and Fission Products |
| Title: <i>Appendix G Implementing Arrangement #1 of the U.S. Department of Energy/Russian Academy of Science Memorandum of Understanding The Interaction of Actinides and Fission Products with Environmental Matrices</i> | | | | | | | | | |
| Comment: | | | | | | | | | |

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| ID | File# | Start Date | End Date | Agreement Type | Legally Binding | Parent ID | Parent Type | Subject | Brief Description |
|--|-------|------------|-----------|----------------|-----------------|-----------|---------------|---|---|
| 594 | 488 | 5/18/2000 | 9/30/2003 | Tertiary DOE | | 565 | Secondary DOE | Civilian Radioactive Waste Management | Appendix H - Actinide Speciation |
| Title: <i>Appendix H Implementing Arrangement #1 of the U.S. Department of Energy/Russian Academy of sciences Memorandum of Understanding Actinide Speciation in the Environment to Support Safety Assessment of Geologic Repositories and for the Remediation of Contaminated Sites</i> | | | | | | | | | |
| Comment: | | | | | | | | | |
| 566 | 489 | 5/15/2000 | 3/24/2004 | Secondary DOE | | 518 | Primary DOE | Environmental Restoration and Waste Management | DOE/RAS Implementing Arrangement 2 |
| Title: <i>Implementing Arrangement #2 Under the Memorandum of Understanding between the United States Department of Energy and the Russian Academy of Sciences on Cooperation in Science and Technology - Risk Assessment and Advanced Modeling Regarding Geologic Disposal</i> | | | | | | | | | |
| Comment: | | | | | | | | | |
| 589 | 489 | 6/2/2000 | 9/30/2003 | Tertiary DOE | | 566 | Secondary DOE | Civilian Radioactive Waste Management | Appendix C - Contaminant Transport Processes Unsaturated Rocks |
| Title: <i>Appendix C Implementing Arrangement #2 of the U.S. Department of Energy/Russian Academy of Sciences Memorandum of Understanding Interdisciplinary Fundamental Research to Further Develop the Methods of Describing and Modeling Contaminant Transport Process in Unsaturated Rocks</i> | | | | | | | | | |
| Comment: | | | | | | | | | |
| 591 | 489 | 5/31/2000 | 9/30/2002 | Tertiary DOE | | 566 | Secondary DOE | Environmental Restoration and Waste Management | Appendix D- Annex A - Chara. Of Territories |
| Title: <i>Annex A of Appendix D Implementing Arrangement #2 of the U.S. Department of Energy/Russian Academy of Sciences Memorandum of Understanding Characterization of Contaminated Territories, Monitoring Network Optimization, and Cost Minimization</i> | | | | | | | | | |
| Comment: | | | | | | | | | |
| 592 | 489 | 5/31/2000 | 9/30/2002 | Tertiary DOE | | 566 | Secondary DOE | Environmental Restoration and Waste Management | Appendix D - Annex B - Uncertainty Assessment |
| Title: <i>Annex B of Appendix D Implementing Arrangement #2 under the DOE-RAS Memorandum of Understanding Uncertainty Assessment Through Incorporation of Mathematical Geology in Development of Inverse Flow and Transport Models</i> | | | | | | | | | |
| Comment: | | | | | | | | | |
| 605 | 500 | 4/25/2001 | 4/25/2004 | Secondary DOE | | 518 | Primary DOE | Science and Technology | Appendix K w/ the Russian Academy of Sciences |
| Title: <i>Appendix K Under Implementing Arrangement #1 of the Memorandum of Understanding Between the U.S. Department of Energy and Russian Academy of Sciences on Cooperation in Science and Technology</i> | | | | | | | | | |
| Comment: | | | | | | | | | |
| 606 | 501 | 10/1/2000 | 10/1/2002 | Secondary DOE | | 518 | Primary DOE | Uranium Mass Transport Phenomena in Fractured Welded Tuffs | Appendix D of Implementing Arrangement Russian Academy of Sciences MOU |
| Title: <i>Appendix D Implementing Arrangement #1 of The U.S. Department of Energy/Russian Academy of Sciences Memorandum of Understanding Uranium Mass Transport Phenomena in Fractured Welded Tuffs</i> | | | | | | | | | |
| Comment: | | | | | | | | | |

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|---|-------|------------|-----------|---------------------|-----------------|-----------|-------------|--|---|
| 52 | 302 | 3/18/1992 | | Statement of Intent | | | None | Information and/or Personnel Exchange | Electric Power Technologies |
| Title: <i>U.S.-Russia Task Force on Cooperation in Electric Power Technologies Joint Statement of Intent</i> | | | | | | | | | |
| Comment: Exchange information on developments in the electric power industries and encourage more extensive contacts among experts in this field in both countries. | | | | | | | | | |
| 537 | 481 | 7/24/1998 | 7/24/2003 | Intergovernmental | | | None | Arms Control and Nonproliferation | Plutonium Management |
| Title: <i>Agreement between the Government of the United States of America and the Government of the Russian Federation on Scientific and Technical Cooperation in the Management of Plutonium that has been withdrawn from Nuclear Military Programs</i> | | | | | | | | | |
| Comment: DOE is the Executive Agent for the US. The agreement establishes the U.S.-Russian Joint Steering Committee on Plutonium Management | | | | | | | | | |
| 619 | 514 | 6/30/2000 | 6/30/2005 | Secondary DOE | | 607 | Primary DOE | Civilian Radioactive Waste Management | Protocol extending the agreement between DOE and Russia |
| Title: <i>Protocol Extending the Agreement between the Department of Energy of the United States of America and the Federal Nuclear, and Radiation Safety Authority of Russia for Cooperation on Enhancing the Safety of Russian Nuclear Fuel Cycle Facilities and Research Reactors</i> | | | | | | | | | |
| Comment: Extending the agreement mention above for five years until June 30, 2005. | | | | | | | | | |
| 641 | 536 | 6/26/200 | 6/30/2005 | Secondary DOE | | 607 | Primary DOE | Arms Control and Nonproliferation | Extension bet. DOE federal Nuclear and Radiation Safety Authority of Russia |
| Title: <i>Protocol Extending the Agreement between the Department of Energy of the United States of America and the Federal Nuclear and Radiation Safety Authority of Russia to Cooperate on National Protection, Control and Accounting of Nuclear Materials</i> | | | | | | | | | |
| Comment: | | | | | | | | | |
| 636 | 531 | 4/23/2002 | | Statement of Intent | | | None | Science and Technology | Joint Statement of Intent between DOE and Dubna |
| Title: <i>Joint Statement of Intent between the Department of Energy of the United States of America and the Joint Institute for Nuclear Research at Dubna</i> | | | | | | | | | |
| Comment: | | | | | | | | | |
| 658 | 553 | 5/8/2002 | | Primary DOE | | | None | *Other - Purchases of Pu-238 for Peaceful Purposes | Purchases of Pu-238 for Peaceful Purposes |
| Title: <i>Joint Announcement by the United States Department of Energy and the Russian Federation Ministry for Atomic Energy Concerning Continued Purchases of Pu-238 for Peaceful Purposes</i> | | | | | | | | | |
| Comment: | | | | | | | | | |
| 659 | 554 | 7/16/2001 | 7/16/2006 | Secondary DOE | | 210 | Primary DOE | Civilian Radioactive Waste Management | Annex VI |
| Title: <i>Annex VI to the Memorandum of Agreement between the Department of the United States of America and the International Science and Technology Center in the Russian Federation Concerning Implementation of Projects of the Office of Civilian Radioactive Waste Management</i> | | | | | | | | | |
| Comment: | | | | | | | | | |

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| ID | File# | Start Date | End Date | Agreement Type | Legally Binding | Parent ID | Parent Type | Subject | Brief Description |
|--|-------|------------|-----------|---------------------|-----------------|-----------|-------------|--|--|
| Country: <u>Senegal</u> | | | | | | | | | |
| 479 | 433 | 4/2/1998 | | Statement of Intent | | | None | Energy Research and Development | SOI - Energy R&D |
| Title: <i>Memorandum of Understanding between the Republic of Senegal and the United States of America for Cooperation on Energy Policy, Science and Technology, and Research and Development</i> | | | | | | | | | |
| Comment: | | | | | | | | | |
| 516 | 462 | 3/19/1999 | 3/19/2004 | Primary DOE | | | None | Energy Research and Development | Energy Policy, S and T, and R and D |
| Title: <i>Agreement between the Department of Energy and the Ministry of Energy, Mines and Industry of the Republic of Senegal on Cooperation in Energy Policy, Science and Technology, Research and Development</i> | | | | | | | | | |
| Comment: The objective of this Agreement is to facilitate and establish cooperative activities by the Parties. | | | | | | | | | |
| Country: <u>South Africa</u> | | | | | | | | | |
| 20 | 368 | 12/4/1997 | 12/4/2022 | Intergovernmental | | | None | Nuclear Energy | Peaceful Uses of Nuclear Energy |
| Title: <i>Agreement for Cooperation between the United States of America and the Republic of South Africa Concerning Peaceful Uses of Nuclear Energy</i> | | | | | | | | | |
| Comment: Cooperate in the development, use and control of peaceful uses of nuclear energy which must be undertaken with a view to protecting the international environment from radioactive, chemical and thermal contamination. Agreement was signed on 8/25/95 ratified by exchange of diplomatic notes on 12/4/97. | | | | | | | | | |
| 230 | 369 | 8/25/1995 | | Primary DOE | | | None | Energy Research and Development | Sustainable Energy Development Committee |
| Title: <i>Terms of Reference on the Sustainable Energy Development Committee of the U.S. - South Africa Binational Commission</i> | | | | | | | | | |
| Comment: | | | | | | | | | |
| 231 | 371 | 8/25/1995 | | Primary DOE | | | None | Energy Research and Development | Sustainable Development Resource Center |
| Title: <i>Memorandum of Understanding between the World Wildlife Fund-South Africa, EarthKind International, U.S. Department of Energy and U.S. Agency for International Development on Creating the Sustainable Development Resource Center</i> | | | | | | | | | |
| Comment: Cooperate on the creation of the Sustainable Development Resource enter to advance policies and programs on the use of renewable energy and energy efficiency technologies and participation by nongovernmental organization in the decision making process. Other signatories are EarthKind Intl (Jan Hartke) and USAID (Larry Byrne) | | | | | | | | | |
| 232 | 372 | 8/25/1995 | | Primary DOE | | | None | Energy Efficiency and Renewable Energy | Renewable and Energy Efficiency Technologies |
| Title: <i>Memorandum of Understanding</i> | | | | | | | | | |
| Comment: Promotion of renewable energy and energy efficient technologies as a cost-effective means of increasing access to energy of the majority of South Africa disadvantaged population (w/USAID as a partner). | | | | | | | | | |
| 233 | 374 | 8/25/1995 | | Primary DOE | | | None | Energy Efficiency and Renewable Energy | Electrification of Rural Clinics (Cape Town) |
| Title: <i>Memorandum of Understanding between Sandia National Laboratories of Albuquerque New Mexico, USA and the Independent Development Trust Cape Town, Republic of South Africa</i> | | | | | | | | | |
| Comment: Sandia National Lab, as signatory of this MOU, has agreed to co-fund the Independent Development Trust model clinic electrification program and to provide other technical assistance as agreed by mutual consent. | | | | | | | | | |

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|---|-------|------------|-----------|---------------------|-----------------|-----------|-------------|--|--|
| 234 | 381 | 12/5/1995 | 12/5/2000 | Primary DOE | | | None | Energy Research and Development | Energy Policy, S&T and Development |
| <p>Title: <i>Implementing Agreement between the United States Department of Energy and the Department of Mineral and Energy Affairs of South Africa on Collaboration on Energy, Policy, Science, Technology and Development</i></p> <p>Comment: Facilitate and establish cooperative activities in energy policy, science, technology, development and commercialization activities in such areas as: fossil energy, including clean coal; energy planning, efficiency, renewable energy; environmental management; environment enhancing energy technologies; and private power project development</p> | | | | | | | | | |
| 55 | 423 | 8/25/1995 | | Statement of Intent | | | None | Information and/or Personnel Exchange | Energy Information Exchange |
| <p>Title: <i>Joint Statement of Intent between the Department of Energy of the United States of American and the Department of Mineral and Energy Affairs of the Republic of South Africa on an Energy Information Exchange</i></p> <p>Comment:</p> | | | | | | | | | |
| 56 | 370 | 8/25/1995 | | Statement of Intent | | | None | Energy Research and Development | Energy Policy, S&T and Development |
| <p>Title: <i>Joint Statement of Intent between the Department of Energy of the United States of American and the Department of Mineral and Energy Affairs of the Republic of South Africa on Energy Policy, Science and Technology, and Development</i></p> <p>Comment: Facilitate joint activities related to energy policy, S&T, development and commercialization in an environmentally and economically sound manner.</p> | | | | | | | | | |
| 57 | 373 | 8/25/1995 | | Statement of Intent | | | None | Energy Efficiency and Renewable Energy | Renewable Energy (Guguletu Township) |
| <p>Title: <i>Joint Statement of Intent for Integrated Industrial/Educational Development in Guguletu Township between the United States Department of Energy, United States Department of Energy National Laboratories, and the Guguletu RDP Forum</i></p> <p>Comment: Establishment of a light industrial part in Guguletu Township.</p> | | | | | | | | | |
| 58 | 375 | 8/25/1995 | | Statement of Intent | | | None | Energy Efficiency and Renewable Energy | Renewable Energy (The Csiir, South Africa) |
| <p>Title: <i>Statement of Intent on Renewable Energy Technologies between the National Renewable Energy Laboratory, U.S.A. and Sandia national Laboratories, U.S.A. and the CSIR (Council for Scientific and Industrial Research), Republic of South Africa</i></p> <p>Comment: NREL and Sandia, by being signatories of this Statement, have agreed to exchange experience and views on opportunities for the appropriate utilization of renewable energy technologies with The Csiir, Republic of South Africa. Witnessed by Secretary O'Leary.</p> | | | | | | | | | |
| 59 | 383 | 12/5/1995 | | Statement of Intent | | | None | Fossil Energy | Mitigation of Greenhouse Gases |
| <p>Title: <i>Statement of Intent concerning Cooperation in Sustainable Energy Development and the Mitigation of Greenhouse gases between the Republic of South Africa and the United States of America</i></p> <p>Comment: Investigate pilot studies the feasibility of the development of projects which could achieve additional mitigation of climate change by addressing anthropogenic emissions by sources and removal by sinks in an environmentally sound and socially and economically equitable fashion through deployment of greenhouse gas mitigation technologies; education/training programs; diversification of energy sources; conservation, restoration and enhancement of natural carbon sinks, etc.</p> | | | | | | | | | |
| 60 | 382 | 12/5/1995 | | Statement of Intent | | | None | Energy Research and Development | South Africa/Provincial Gov'ts Cooperation Agreement - Statement of Intent |
| <p>Title: <i>Cooperative Agreement between Provincial Governments of the Republic of South Africa on Regional Cooperation in Energy</i></p> <p>Comment: Intention to cooperate in a manner which will facilitate joint activities related to energy development in an environmentally and economically sound way with the following provincial governments of South Africa: Province of the Free State; Northern Cape Province; Eastern Cape Province</p> | | | | | | | | | |

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|--|-------|------------|-----------|----------------|-----------------|-----------|-------------|---------------------------------------|--|
| Country: <u>Spain</u> | | | | | | | | | |
| 100 | 404 | 9/15/1997 | 9/15/2007 | Primary DOE | | | None | Environmental Safety Health | Research on Radiological Evaluations |
| Title: <i>Implementing Arrangement between the Department of Energy of the United States of America and the Ministry of Industry and Energy of the Kingdom of Spain on Cooperation in Research on Radiological Evaluations</i> | | | | | | | | | |
| Comment: | | | | | | | | | |
| 307 | 404 | 9/15/1997 | 9/15/2007 | Secondary DOE | | 100 | Primary DOE | Environmental Safety Health | Annex 1 |
| Title: <i>Project Annex 1 - cooperation on research in radiological evaluations</i> | | | | | | | | | |
| Comment: Related to radioactive waste management. | | | | | | | | | |
| 5 | 171 | 12/12/198 | | Primary DOE | | | None | Science and Technology | Science & Technology |
| Title: <i>Agreement between the United States Department of Energy and the United States-Spain Joint Committee for Scientific and Technological Cooperation</i> | | | | | | | | | |
| Comment: Establish responsibilities, guidelines and procedures for evaluating, funding and coordinating research proposals, projects and related activities in the field of energy selected and funded by the US-Spain Joint Committee for S&T Cooperation. | | | | | | | | | |
| 596 | 491 | 7/15/2000 | 7/15/2006 | Primary DOE | | | None | Energy Research and Development | MOU for Energy Cooperation |
| Title: <i>Memorandum of Understanding Between The Ministry of Science and Technology of the Kingdom of Spain and The Department of Energy of the United States of America Concerning Cooperation in Energy</i> | | | | | | | | | |
| Comment: | | | | | | | | | |
| Country: <u>Sweden</u> | | | | | | | | | |
| 218 | 235 | 2/11/1988 | | Primary DOE | | | None | *Other - Classified | Subject and Umbrella contents are classified |
| Title: <i>Subject and Umbrella contents are classified</i> | | | | | | | | | |
| Comment: Description not available in History | | | | | | | | | |
| 580 | 442 | 10/23/199 | 10/23/200 | Primary DOE | | | None | Civilian Radioactive Waste Management | Radioactive Waste Management |
| Title: <i>Agreement between the United States Department of Energy and the Swedish Nuclear Fuel and Waste Management Company Concerning a Cooperative Program in the Field of Radioactive waste Management</i> | | | | | | | | | |
| Comment: | | | | | | | | | |

Country: Switzerland

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|---|-------|------------|-----------|-------------------|-----------------|-----------|-------------|---------------------------------------|--|
| 225 | 418 | 12/23/199 | 12/23/200 | Primary DOE | | | None | Civilian Radioactive Waste Management | Radioactive Waste Management |
| Title: <i>Agreement between the Department of Energy of the United States of America and the National Cooperative for the Disposal of Radioactive Waste in Switzerland in the Field of Radioactive Waste Management</i> | | | | | | | | | |
| Comment: Auto extension for 5 yr. Periods. | | | | | | | | | |
| Country: <u><i>Thailand</i></u> | | | | | | | | | |
| 227 | 400 | 3/20/1997 | | Primary DOE | | | None | Arms Control and Nonproliferation | Lab-to-Lab arrangement |
| Title: <i>Arrangement for the Exchange of Technical Information and for Cooperation in the Field of Peaceful Uses of Nuclear Energy between the Office of Atomic Energy for Peace of Thailand and the United States Department of Energy</i> | | | | | | | | | |
| Comment: Open ended. | | | | | | | | | |
| 538 | 400 | 3/6/2000 | | Secondary DOE | | 227 | Primary DOE | Arms Control and Nonproliferation | Action Sheet 1 - Preliminary Safety Anaysis Report |
| Title: <i>Action Sheet 1 between the Office of Atomic Energy for Peace of Thailand and the United States Department of Energy for Preliminary Safety Analysis Report Review</i> | | | | | | | | | |
| Comment: | | | | | | | | | |
| Country: <u><i>Turkey</i></u> | | | | | | | | | |
| 624 | 519 | 3/20/2002 | 3/20/2007 | Primary DOE | | | None | Science and Technology | Cooperation in Energy Technology |
| Title: <i>Implementing Arrangement between the Department of Energy of the United States of America and the Ministry of Energy and Natural Resources of the Republic of Turkey for Cooperation in Energy Technology</i> | | | | | | | | | |
| Comment: | | | | | | | | | |
| 625 | 520 | 3/20/2002 | 3/20/2002 | Secondary DOE | | 624 | Primary DOE | Science and Technology | Annex 2 - Cooperation in the Field of Coal and Power Systems |
| Title: <i>Annex 2 to the Implementing Arrangement between the Department of Energy of the United States of America and the Ministry of Energy and Natural Resources of the Republic of Turkey for Cooperation in the Field of Coal and Power Systems</i> | | | | | | | | | |
| Comment: | | | | | | | | | |
| Country: <u><i>Ukraine</i></u> | | | | | | | | | |
| 507 | 454 | 4/26/1996 | | Intergovernmental | | | None | *Other - Radioactive Waste | Chornobly Center |
| Title: <i>Memorandum of Understanding on Participation In and Support of the Activities of the International Chornobyl Center on Nuclear Safety, Radioactive Waste and Radioecology</i> | | | | | | | | | |
| Comment: | | | | | | | | | |

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|--|-------|------------|-----------|---------------------|-----------------|-----------|-------------|----------------------------|--|
| 508 | 455 | 7/22/1998 | 7/22/2003 | Intergovernmental | | | None | *Other - Radioactive Waste | Int'l Radioecology Lab |
| Title: <i>Agreement between the Government of the United States of America and the Government of Ukraine Concerning the International Radioecology Laboratory of the International Chernobyl Center on Nuclear Safety, Radioactive Waste and Radioecology</i> | | | | | | | | | |
| Comment: Department of Energy is the Executive Agent | | | | | | | | | |
| 510 | 457 | 5/6/1998 | 5/4/2028 | Intergovernmental | | | None | Nuclear Energy | US-Ukraine PNC |
| Title: <i>Agreement for Cooperation between the United States of America and Ukraine Concerning Peaceful Uses of Nuclear Energy</i> | | | | | | | | | |
| Comment: | | | | | | | | | |
| 54 | 330 | 4/8/1994 | | Statement of Intent | | | None | Nuclear Energy | Shutdown Chernobyl Nuclear Power Plant |
| Title: <i>Joint Statement About Paths to the Soonest Possible Shutdown of the Chernobyl Nuclear Power Plant</i> | | | | | | | | | |
| Comment: Undertake near-term joint analysis of options for earliest possible closure of the Chernobyl power plant. | | | | | | | | | |

Country: United Kingdom

| | | | | | | | | | |
|---|-----|-----------|-----------|---------------------|--|-----|-------------|--|--|
| 41 | 364 | 7/25/1995 | | Statement of Intent | | | None | Environmental Restoration and Waste Management | Nuclear Clean-Up |
| Title: <i>Heads of Agreement for Cooperation Between the United States Department of Energy and the United Kingdom Department of Trade and Industry on their Perspective Program for Nuclear Clean-up</i> | | | | | | | | | |
| Comment: Cooperate, through sharing of information, on similar issues associated with nuclear decommissioning and clean-up | | | | | | | | | |
| 42 | 390 | 9/5/1996 | | Statement of Intent | | | None | Environmental Restoration and Waste Management | Environmental Restoration and Waste Management |
| Title: <i>Statement of Intent between the United States Department of Energy and the United Kingdom Department of Trade and Industry</i> | | | | | | | | | |
| Comment: Establish framework for cooperation in R&D of technologies for the treatment, packaging, disposal of aluminum-based spent nuclear fuel. | | | | | | | | | |
| 598 | 493 | 11/6/2000 | 11/6/2010 | Primary DOE | | | None | Energy Research and Development | MOU on Energy Research and Development |
| Title: <i>Memorandum of Understanding Between The Department of Energy of the United States of America and The Department of Trade and Industry of the United Kingdom of Great Britain and Northern Ireland on Collaboration in Energy Research and Development</i> | | | | | | | | | |
| Comment: Provides for cooperation in Fossil Energy, Energy Efficiency, Renewable Energy and the waste-related management and the environment. | | | | | | | | | |
| 634 | 529 | 11/17/200 | 11/17/200 | Secondary DOE | | 598 | Primary DOE | Environmental Management | AEA Technology plc |
| Title: <i>Implementing Arrangement between the Department of Energy of the United States of America and AEA Technology plc Under the Memorandum of Understanding on Energy R&D between the Department of Energy of the United States of America and the Department of Trade and Industry of the United Kingdom of Great Britain and Northern Ireland</i> | | | | | | | | | |
| Comment: | | | | | | | | | |

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|--|-------|------------|-----------|----------------|-----------------|-----------|-------------|-----------------------------------|--|
| 611 | 506 | 9/17/2001 | 9/17/2006 | Primary DOE | | | None | Nuclear Verification Technologies | MOU between DOE and the Department of Trade and Industry of the United Kingdom |
| <p>Title: <i>Memorandum of Understanding between the Department of Energy of the United States of America and the Department of Trade and Industry of the United Kingdom of Great Britain and Northern Ireland Concerning the Development and Implementation of Nuclear Verification Technologies</i></p> <p>Comment:</p> | | | | | | | | | |
| 637 | 532 | 7/25/2002 | 7/25/2007 | Primary DOE | | | None | Science and Technology | Implementing Agreement between DOE and Great Britain |
| <p>Title: <i>Implementing Arrangement between the Department of Energy of the United States of America and the Secretary of State for Defence of the United Kingdom of Great Britain and Northern Ireland for Cooperation in Research and Development of Chemical and Biological Weapons Detection and Protection-Related Technologies</i></p> <p>Comment:</p> | | | | | | | | | |
| 638 | 533 | 7/3/2002 | 7/3/2007 | Primary DOE | | | None | Science and Technology | Gov't to Gov't agreement between US and Great Britain |
| <p>Title: <i>Agreement between the Government of the United States of America and the Government of the United Kingdom of Great Britain and Northern Ireland for Cooperation in Research and Development of Weapons Detection and Protection-Related Technologies</i></p> <p>Comment:</p> | | | | | | | | | |
| 652 | 547 | 3/10/2003 | 3/10/2008 | Primary DOE | | | None | Fossil Energy | Cooperation in the Field of Fossil Energy |
| <p>Title: <i>Implementing Arrangement between the Department of Energy of the United States of America and the Department of Trade and Industry of the United Kingdom of Great Britain and Northern Ireland to Cooperate in the Field of Fossil Energy Technology</i></p> <p>Comment:</p> | | | | | | | | | |
| 143 | 278 | 6/11/1990 | 6/11/2000 | Primary DOE | | | None | Energy Research and Development | Energy R&D |
| <p>Title: <i>Memorandum of understanding between the U.S. Department of Energy and the Department of energy of the United Kingdom of Great Britain and Northern Ireland on collaboration in energy research and development</i></p> <p>Comment: To continue and maximize cooperation in energy research and development.</p> | | | | | | | | | |

Country: Uzbekistan

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|---|-----|-----------|--|-------------|--|--|------|-----------------------------------|---|
| 628 | 523 | 3/12/2002 | | Primary DOE | | | None | Arms Control and Nonproliferation | Proliferation of Nuclear Materials and Technologies |
| <p>Title: <i>Agreement between the Department of Energy of the United States of America and the Ministry of Foreign Affairs of the Republic of Uzbekistan Concerning Cooperation in the area of Prevention of Proliferation of Nuclear Materials and Technologies</i></p> <p>Comment:</p> | | | | | | | | | |

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|--|-------|------------|-----------|----------------|-----------------|-----------|-------------|---------------------------------|--|
| 228 | 408 | 10/13/199 | 10/13/200 | Primary DOE | | | None | Energy Research and Development | Energy Cooperation |
| <p>Title: <i>Agreement for Energy Cooperation between the Department of Energy of the United States of America and the Ministry of Energy and Mines of the Republic of Venezuela</i></p> <p>Comment: Supersedes the March 6, 1980 Energy R&D agreement</p> | | | | | | | | | |
| 443 | 73 | 7/10/1980 | 10/13/200 | Secondary DOE | | 228 | Primary DOE | Fossil Energy | Project Annex 1 - Crude Characterization |
| <p>Title: <i>Project Annex I between the Department of Energy of the United States of America and the Ministry of Energy and Mines of Venezuela for the Joint Characterization of Heavy Crude Oils</i></p> <p>Comment: Exchange published technical information and jointly modify or develop new techniques for the characterization of heavy crude oil and heavy ends.</p> | | | | | | | | | |
| 444 | 82 | 9/29/1980 | 10/13/200 | Secondary DOE | | 228 | Primary DOE | Fossil Energy | Project Annex 4 - Enhanced Oil Recovery Thermal |
| <p>Title: <i>Project Annex IV between the Department of Energy of the United States of America and the Ministry of Energy and Mines of the Republic of Venezuela in the Area of Enhanced Oil Recovery Thermal Process</i></p> <p>Comment: Cooperate in the application of additives to steam injection for the recovery of heavy oil thereby further efforts on the understanding of the thermal processes and the reservoir and its fluids where these processes are conducted.</p> | | | | | | | | | |
| 445 | 137 | 3/14/1984 | 10/13/200 | Secondary DOE | | 228 | Primary DOE | Fossil Energy | Project Annex 10 - Training of Petroleum Engineers |
| <p>Title: <i>Project Annex X between the Department of Energy of the United States of America and the Ministry of Energy and Mines of the Republic of Venezuela for On-Site Training of Petroleum Engineers</i></p> <p>Comment: Training of Venezuelan petroleum engineers at Elks Hills Naval Petroleum Facility.</p> | | | | | | | | | |
| 446 | 264 | 2/16/1989 | 10/13/200 | Secondary DOE | | 228 | Primary DOE | Fossil Energy | Project Annex 14 - Exchange of Energy-Related Personnel |
| <p>Title: <i>Project Annex XIV between the Department of Energy of the United States of America and the Ministry of Energy and Mines of the Republic of Venezuela for the Exchange of Energy-Related</i></p> <p>Comment: DOE and MEMV shall cooperate in using their good offices and taking all reasonable steps to facilitate the exchange of energy-related personnel between Venezuela and the U.S. in the areas of fossil</p> | | | | | | | | | |
| 447 | 333 | 4/26/1994 | 10/13/200 | Secondary DOE | | 228 | Primary DOE | Fossil Energy | Project Annex 15 - Oil Recovery Information and Tech. Transfer |
| <p>Title: <i>Implementing Agreement XV to the Memorandum of Understanding between the Department of Energy of the United States of America and the Ministry of Energy and Mines of the Republic of Venezuela in the Area of "Oil Recovery Information and Technology Transfer"</i></p> <p>Comment: Evaluate past and ongoing improved oil recovery projects in US and Venezuela; Data base compilation and exchange</p> | | | | | | | | | |

All In Force Bilateral Agreements

| ID | File# | Start Date | End Date | Agreement Type | Legally Binding | Parent ID | Parent Type | Subject | Brief Description |
|--|-------|------------|-----------|----------------|-----------------|-----------|-------------|---------------|---|
| 499 | 448 | 8/15/1995 | 10/13/200 | Secondary DOE | | 228 | Primary DOE | Fossil Energy | Annex 16 - Oil and Petrochemical Ecology and Environmental Research |
| <p>Title: <i>Implementing Agreement XVI to the Memorandum of Understanding between the Department of Energy of the United States of America and the Ministry of Energy and Mines of the Republic of Venezuela in the Area of Oil and Petrochemistry Ecology and Environmental Research</i></p> <p>Comment: Information exchange, biotechnology update and analysis of industrial and environmental trends.</p> | | | | | | | | | |
| 500 | 449 | 9/7/1995 | 10/13/200 | Secondary DOE | | 228 | Primary DOE | Fossil Energy | Annex 17 - Drilling Technology |
| <p>Title: <i>Implementing Agreement XVII to the Memorandum of Understanding between the Department of Energy of the United States of America and the Ministry of Energy and Mines of the Republic of Venezuela in the Area of Drilling Technology</i></p> <p>Comment: Exchange information and training of personnel on drilling technologies for more efficient and cost-effective methods drilling.</p> | | | | | | | | | |
| 633 | 528 | 8/9/2001 | 8/9/2006 | Secondary DOE | | 228 | Primary DOE | Fossil Energy | Project Annex No. XVIII - Natural Gas Technologies |
| <p>Title: <i>Project Annex No. XVIII to the Agreement for Energy Cooperation between the Department of Energy of the United States of America and the Ministry of Energy and Mines of the Bolivarian Republic of Venezuela in the area of Natural Gas Technologies</i></p> <p>Comment:</p> | | | | | | | | | |

United States Department of Energy
Agreement Listing

Listing of Agreements Under the Aegis of: IEA

| Exp Date | DOE Office | Agreement # | Title |
|-----------------|-------------------|--------------------|--|
| 1/2050 | EE | 000011 | International Energy Agency Implementing Agreement on Solar Heating and Cooling Program |
| 9/30/94 | EE | 000012 | International Energy Agency Implementing Agreement on Solar Heating and Cooling Program - Annex 12: Building Energy Analysis and Design Tools for Solar Applications |
| 8/31/94 | EE | 000013 | International Energy Agency Solar Heating and Cooling Program - Annex 13: Advanced Low Energy Buildings |
| 1/2050 | EE | 000018 | International Energy Agency Hydrogen Agreement: Implementing Agreement for a Program of Research and Development on the Production and Utilization of Hydrogen |
| 12/31/94 | EE | 000024 | International Energy Agency Implementing Agreement on Solar Heating and Cooling Program |
| 1/1/2050 | EE | 000025 | International Energy Agency Annex 1: Improvement of Thermohydraulic Design and Performance in Heat Transfer Equipment |
| 1/1/2050 | EE | 000026 | International Energy Agency Implementing Agreement on Improved Structural Design and Reliability of Heat Transfer Equipment |
| 1/1/2050 | EE | 000030 | International Energy Agency Implementing Agreement for Cooperation in R&D of Wind Turbine Systems |
| 1/1/2050 | EE | 000033 | International Energy Agency Implementing Agreement - Annex 1: Combustion System Modeling and Diagnostics |
| 1/1/2050 | EE | 000034 | International Energy Agency Implementing Agreement - Annex 2: Optimal Design of Heat Exchanger Networks |
| 1/1/94 | EE | 000039 | International Energy Agency Implementing Agreement for a Program of R&D on Advanced Heat Pump Systems |
| 1/1/2050 | EE | 000045 | International Energy Agency Implementing Agreement on High Temperature Materials for Automotive Engines |
| 1/1/2050 | EE | 000049 | International Energy Agency Implementing Agreement for a Program of Research and Development on Energy |

United States Department of Energy
Agreement Listing

Listing of Agreements Under the Aegis of: IEA

| Exp Date | DOE Office | Agreement # | Title |
|-----------------|-------------------|--------------------|---|
| | | | Conservation in Buildings and Community Systems |
| 1/1/2050 | EE | 000053 | International Energy Agency Implementing Agreement for Pulp and Paper Industry |
| 1/1/2050 | EE | 000055 | International Energy Agency Alcohol and Alcohol Blends as Motor Fuel (Umbrella Agreement) including Annex 1: A Common Study |
| 1/1/2050 | EE | 000058 | International Energy Agency Implementing Agreement for Program on Bioenergy Research and Development |
| 1/1/2050 | ER | 000107 | International Energy Agency Implementing Agreement for a Program of Research and Development on Superconducting Magnets for Fusion Power |
| 7/31/95 | ER | 000108 | International Energy Agency Implementing Agreement on a Cooperative Fusion Program for the Investigation of Toroidal Physics in, and Plasma Technologies of, Tokomaks with Poloidal Divertors |
| 7/31/95 | ER | 000109 | International Energy Agency Implementing Agreement - Annex I: Joint Fusion Work on the Investigation of Toroidal Physics and Plasma Technologies in Asdex-Upgrade |
| 12/31/97 | ER | 000110 | International Energy Agency Implementing Agreement for Fusion Program of R&D on Plasma Wall Interaction in Textor |
| 10/21/94 | ER | 000115 | International Energy Agency Implementing Agreement for Program of R&D on Radiation Damage in Fusion Materials |
| 10/21/95 | ER | 000116 | International Energy Agency Implementing Agreement for Program of R&D on Radiation Damage on Fusion Materials - Annex 2: Experimentation on Radiation Damage in Fusion Materials |
| 1/14/96 | ER | 000118 | International Energy Agency Implementing Agreement on Fusion Cooperation Among the Three Large Tokomak Facilities (JET, JT-60, and TFTR) |
| 4/2/2000 | ER | 000119 | International Energy Agency Implementing Agreement - Annex 2: Joint Fusion Work on the Investigation of Plasma Confinement Physics and Technology in Reversed Field |

United States Department of Energy
Agreement Listing

Listing of Agreements Under the Aegis of: IEA

| Exp Date | DOE Office | Agreement # | Title |
|--------------------|-------------------|--------------------|---|
| | | | Pinches (RFP) |
| 4/2/2000 | ER | 000123 | International Energy Agency Implementing Agreement for a Fusion Program of R&D on Reversed Field Pinches (RFP) |
| 4/2/2000 | ER | 000124 | International Energy Agency Annex 1: Coordination of Fusion R&D Work on Research Field Pinches (RFP) |
| 7/6/97 | ER | 000266 | International Energy Agency Implementing Agreement on a Cooperative Program on Environmental Safety and Economic Aspects of Fusion Power |
| 1/1/2050 | FE | 000154 | International Energy Agency Coal Research Service Center Project |
| 1/1/2050 | FE | 000159 | International Energy Agency Implementing Agreement for Performance of Research, Development and Demonstration on Enhanced Recovery of Oil |
| 1/1/2049 | FE | 000181 | International Energy Agency Implementing Agreement for Program of Research on Coal Liquid Mixtures |
| 6/21/90 6/20/95 | | | International Energy Agency Implementing Agreement for Cooperative Programme for Assessing the Impacts of High-Temperature Superconductivity on the Electric Power Sector |

DEPARTMENT OF ENERGY RESEARCH AND DEVELOPMENT MULTI-LATERAL AGREEMENTS
All Active Agreements

| Term of Agreement | Countries | Type of Agreement | Agreement Subject Area | DOE Record # |
|--------------------------|---|--|---|---------------------|
| 3/20/74 9/16/96 | Australia, Austria, Belgium, Canada, Denmark, Commission of the Euratom, Finland, France, Germany (unified), Greece, Italy, Japan, Netherlands, New Zealand, Norway, Portugal, Spain, Sweden, Switzerland, Turkey, United Kingdom | Umbrella | Nuclear data and computer programs | 90 |
| 11/18/74 Indefinite | Australia, Austria, Belgium, Canada, Denmark, Germany, Greece, Ireland, Italy, Japan, Luxembourg, Netherlands, New Zealand, Spain, Sweden, Switzerland, Turkey, United Kingdom | Umbrella/annex | Establishment of International Energy Program through implementation of an International Energy Agency | |
| 1/1/75 Indefinite | Australia, Austria, Belgium, Canada, Denmark, Commission of the Euratom, Finland, Germany (unified), Italy, Japan, Netherlands, Spain, Sweden, United Kingdom | Implementing/ project | Coal research | 154 |
| 7/28/75 Indefinite | Australia, Belgium, Canada, Denmark, Finland, Germany (unified), Greece, Italy, Japan, Netherlands, New Zealand, Norway, Sweden, Switzerland, Turkey, United Kingdom | Implementing/ project | Energy conservation in buildings and community systems | 49 |
| 11/20/75 Indefinite | Austria, Belgium, Germany, Italy, Netherlands, Spain, Sweden, Turkey, United Kingdom | Implementing/ project, annex | Establishment of the Coal Technical Information Service | 154 |
| 12/31/75 Indefinite | Australia, Austria, Belgium, Canada, Denmark, Finland, Germany, Ireland, Italy, Japan, Netherlands, New Zealand, Spain, Sweden, United Kingdom (DOI/USGS, DOE and BLM) | Establishment of Coal Research Service | This Agreement incorporates four previous implementing agreements on: Mining Technology Clearinghouse (DOI BLM), Coal Economic Assessment Services (DOE), Coal Technical Information Services (DOE, DOI/USGS), and World Coal Resources and Reserves Data Bank (DOI/USGS) | 154 |
| 12/20/76 Indefinite | Australia, Austria, Belgium, Canada, Commission of the Euratom, Denmark, Germany (unified), Greece, Italy, Japan, Netherlands, New Zealand, Norway, Spain, Sweden, Switzerland, United Kingdom | Implementing/ project, annexes | Solar heating and cooling systems | 11 |
| 3/16/77 Indefinite | Belgium, Canada, France, Germany, Italy, Japan, Netherlands, Norway, Sweden, Switzerland, United Kingdom | Implementing/ project, annex | Energy conservation/ emissions reduction in combustion | |

DEPARTMENT OF ENERGY RESEARCH AND DEVELOPMENT MULTI-LATERAL AGREEMENTS
All Active Agreements

| Term of Agreement | Countries | Type of Agreement | Agreement Subject Area | DOE Record # |
|--------------------------|---|-----------------------------------|--|---------------------|
| 3/16/77 Indefinite | Austria, Germany, Sweden, Switzerland | Implementing/ project, annex | Energy conservation through energy cascading | |
| 3/16/77 Indefinite | Canada, Germany (unified), Italy, Japan, Norway, Sweden, Switzerland, United Kingdom | Annex | Combustion system modeling and diagnostics | 33 |
| 6/28/77 4/00/97 | Germany, Netherlands, Norway, Sweden, Switzerland, United Kingdom | Implementing/ project, annex | Energy conservation in heat transfer and heat exchangers | 26 |
| 10/6/77 12/31/96 | Germany, Israel, Spain, Switzerland | Implementing/ project, annexes | Solar power and chemical energy systems | |
| 10/6/77 12/31/97 | Canada, Commission of the Euratom, Japan, Switzerland, Turkey | Implementing/ project, annex | Fusion energy, plasma wall interaction in Textor | 110 |
| 10/6/77 Indefinite | Germany, Japan, Sweden, Switzerland, United Kingdom | Implementing/ project, annex | Man-made geothermal energy systems | |
| 10/6/77 Indefinite | Austria, Canada, Denmark, Germany (unified), Italy, Japan, Netherlands, New Zealand, Norway, Spain, Sweden, United Kingdom | Implementing/ project, annexes | Wind turbine systems | 30 |
| 10/6/77 Indefinite | Germany (unified), Japan, Switzerland | Implementing/ project, annex | Superconducting magnets for fusion power | 107 |
| 10/6/77 Indefinite | Belgium, Canada, EEC, Germany, Italy, Japan, Netherlands, Sweden, Switzerland | Implementing/ project, annexes | Production of hydrogen from water | 18 |
| 4/00/78 Indefinite | Belgium, Canada, Ireland, Sweden | Implementing/ project, annex | Forestry energy | |
| 4/13/78 Indefinite | Canada, Ireland, Japan, United Kingdom | Implementing/ project, annex | Wave power R&D | |
| 5/24/78 Indefinite | Belgium, Ireland, Sweden, United Kingdom | Implementing/ project, | Biomass conversion technical information service | 58 |
| 7/27/78 Indefinite | Germany, New Zealand, Sweden, United Kingdom | Implementing/ project, annex | Energy conservation in cement manufacture | |
| 7/27/78 Indefinite | Austria, Belgium, Canada, Denmark, Germany (unified), Italy, Japan, Netherlands, Spain, Sweden, Switzerland, United Kingdom | Implementing/ project, annex | Advanced heat pump systems | 39 |
| 9/22/78 Indefinite | Belgium, EEC, Denmark, Germany, Netherlands, Sweden, Switzerland | Implementing/ project, annexes | Energy conservation through energy | 60 |

DEPARTMENT OF ENERGY RESEARCH AND DEVELOPMENT MULTI-LATERAL AGREEMENTS
All Active Agreements

| Term of Agreement | Countries | Type of Agreement | Agreement Subject Area | DOE Record # |
|------------------------|--|---|---|--------------|
| | | | storage | |
| 1/1/79 Indefinite | Canada, Venezuela | Other | Heavy crude and tar sands | 160 |
| 5/22/79 6/30/97 | Germany, Japan, Sweden | Implementing/ project, annexes | High temperature materials for automotive engines | |
| 5/22/79 Indefinite | Australia, Austria, Canada, Denmark, Egypt, France, Germany, Japan, Norway, United Kingdom | Implementing/ project, annex | Enhanced recovery of oil | 159 |
| 5/22/79 Indefinite | Italy, Mexico, New Zealand | Implementing/ project, annex | Geothermal equipment | |
| 10/21/80 10/21/94 | Canada, EEC, Japan, Switzerland | Ongoing Agreement | Radiation Damage in Fusion Materials | 115 |
| 11/13/80 Indefinite | Australia, Belgium, Denmark, EEC, Germany, Italy, Norway, Sweden, Switzerland | Implementing/ project, annexes | Energy technology systems analysis | 268 |
| 2/18/81 Indefinite | Belgium, Canada, Japan, Netherlands, Norway, Spain, Sweden, United Kingdom | Implementing/ project, annexes | Energy conservation in the pulp and paper industry | 53 |
| 1/1/81 1/1/2049 | Canada, Japan, Netherlands, Spain, Sweden, United Kingdom | Implementing/ project, annex | Coal/oil liquid mixtures | 181 |
| 12/17/82 Indefinite | Commission of the Euratom | Letters of Cooperation: Information Exchange | Renewable energy sources | 277 |
| 12/31/84 Indefinite | Belgium, Canada, Finland, France, Italy, Japan, Netherlands, New Zealand, Norway, Sweden, United Kingdom | Implementing/ project, annexes | Alternative motor fuels | 55 |
| 3/27/85 Indefinite | Australia, Canada, Denmark, Finland, Germany, Italy, Netherlands, Sweden, United Kingdom | | Coal Combustion Sciences | 136 |
| 12/15/86 12/15/96 | Commission of the Euratom | | Magnetic fusion power system | 103 |
| 1/26/87 Indefinite | Canada, Denmark, Finland, France, Germany, Italy, Japan, Netherlands, Norway, Spain, Sweden, Switzerland, United Kingdom | | Energy technology data exchange | 3 |
| 3/15/87 3/15/93 | Canada, Norway, United Kingdom | Ongoing Agreement | Fossil Fuel Multiphase Flow Sciences | 174 |
| 3/18/88 3/18/98 | Australia, Belgium, Canada, Denmark, Finland, Italy, Japan, Korea, Netherlands, New Zealand, Norway, Sweden, Switzerland, United Kingdom | Implementing/ project, annexes | Information Center for the Analysis and Dissemination of Demonstrated Energy Technologies | 44 |

DEPARTMENT OF ENERGY RESEARCH AND DEVELOPMENT MULTI-LATERAL AGREEMENTS
All Active Agreements

| Term of Agreement | Countries | Type of Agreement | Agreement Subject Area | DOE Record # |
|----------------------|--|-----------------------------------|---|--------------|
| | | | (CADDET) | |
| 1/1/89 Indefinite | Austria, Belgium, Canada, Denmark, Finland, Ireland, Italy, Japan, New Zealand, Norway, Sweden, United Kingdom | Implementing/ project, annex | Bioenergy research and development | 58 |
| 4/3/90 4/2/00 | Commission of the Euratom, Japan | Implementing/ project | Fusion Energy/ Reversed Field Pinches (RFP) | 123 |
| 4/3/90 4/2/00 | Commission of the Euratom, Japan | Annex 1 | Fusion Energy/ Reversed Field Pinches (RFP) | 124 |
| 4/3/90 4/2/00 | Commission of the Euratom, Japan | Annex 2 | Fusion Energy/ Reversed Field Pinches (RFP) | 119 |
| 7/5/91 7/4/96 | Russia, Former Soviet Union | MOU/MOC | Magnetic confinement fusion | 91 |
| 10/1/91 10/1/96 | France, Germany (unified), United Kingdom | Umbrella | Liquid metal cooled fast breeder reactors | 200 |
| 10/22/91 10/22/96 | Czech Republic, Slovak Republic | Science and Technology Agreement | Fusion energy | 259 |
| 11/20/91 11/19/01 | Canada, Denmark, Commission of the Euratom, Finland, Italy, Japan, Netherlands, Norway, Spain, Sweden, United Kingdom | Implementing/ project, annex | Greenhouse gases derived from fossil fuel use | 231 |
| 7/6/92 7/6/97 | Canada, Commission of the Euratom, Japan | Implementing/ project, annexes | Environmental safety and economic aspects of fusion power | 232 |
| 7/6/92 7/6/97 | Canada, Commission of the Euratom, Japan | Umbrella | Environmentally economic aspects of fusion power | 266 |
| 7/21/92 7/20/98 | EEC, Germany, Japan, the former Soviet Union | | Controlled thermonuclear fusion | 233 |
| 11/24/92 11/11/98 | Austria, Canada, Denmark, EEC, Finland, France, Germany, Israel, Italy, Japan, Korea, Netherlands, Portugal, Sweden, Switzerland, Turkey, United Kingdom | Implementing/ project, annexes | Photovoltaic power systems | |
| 6/13/94 6/13/99 | Canada, Japan | Implementing/ project, annex | Nuclear technology of fusion reactors | |
| 7/12/94 7/12/99 | Austria, Canada, France, Italy, Japan, Netherlands, Sweden, Switzerland, United Kingdom | Implementing/ project, annexes | Electric vehicle (EV) technologies | |

DEPARTMENT OF ENERGY RESEARCH AND DEVELOPMENT MULTI-LATERAL AGREEMENTS
All Active Agreements

| Exp Date | DOE Office | Agreement # | Title |
|----------|------------|-------------|---|
| 9/19/95 | EM | 000083 | Memorandum of Cooperation in the Fields of Environmental Restoration and Waste Management between the United States of America and the Union of Soviet Socialist Republics |
| 7/4/96 | ER | 000091 | Memorandum of Cooperation in the Field of Magnetic Confinement Fusion Between U.S. Department of Energy and the Former Soviet Union Ministry of Atomic Power and Industry |
| 7/4/96 | ER | 000126 | Memorandum of Cooperation in the Field of Research on Fundamental Properties of Matter between the U.S. Department of Energy and the Ministry of Atomic Power and Industry of the Former Soviet Union |
| 1/1/2050 | FE | 000160 | U.S. Department of Energy, Canada and Venezuela Agreement for Unitar/UNDP Information Center for Heavy Crude and Tar Sands |
| 10/1/96 | NE | 000200 | U.S. Department of Energy, German Ministry of Research and Technology, Commission of Atomic Energy of France, and United Kingdom Atomic Energy Agency on Exchange of Information and Cooperation in Field of R&D of Liquid Metal Cooled Fast Breeder Reactors |
| | NE | 000250 | Proposed New Agreement - United States, Russian Federation and Ukraine Lisbon Initiative on the Review and Assessment of Russian Nuclear Reactor Design and Safety |
| 10/22/96 | PO | 000259 | U.S., Czech Republic and Slovak Republic Science and Technology Agreement |