

U.S. Department of Energy
and
The Trustees of Princeton University

ATTACHMENT J.10

APPENDIX J

**TREATIES AND INTERNATIONAL AGREEMENTS /
WAIVED INVENTIONS**

**Applicable to the Operation of
The Princeton Plasma Physics Laboratory**

Contract No. DE-AC02-76CH03073

Modification No. M421

U.S. DOE - Office of International Science and Technology Cooperation

All Multilateral Implementing Agreements

ID	Start Date	End Date	Status	Legally Binding	Subject	Brief Description
Aegis: IEA						
10000	11/20/1975		In Force	<input checked="" type="checkbox"/>	Fossil Energy	IEA Coal Research
Title: <i>Implementing Agreement for the Establishment of an IEA Clean Coal Center</i>						
Comment: Energy Technology Information Centers						
10001	12/20/1976	12/31/2003	In Force	<input checked="" type="checkbox"/>	Energy Efficiency and Renewable Energy	Renewable Energy Strategies (design know-how and technologies)
Title: <i>Implementing Agreement for the Establishment of a Program on Solar Heating and Cooling</i>						
Comment:						
10002	3/16/1977	12/14/2003	In Force	<input checked="" type="checkbox"/>	Energy Efficiency and Renewable Energy	Efficient Energy and end-use technologies
Title: <i>Implementing Agreement for the Establishment of a Project on Energy Conservation in Combustion</i>						
Comment: DOE is the Operating Agent						
10003	3/16/1977	6/30/2012	In Force	<input checked="" type="checkbox"/>	Energy Efficiency and Renewable Energy	IEA - Buildings and Community Systems
Title: <i>Implementing Agreement for the Establishment of a Project on Energy Conservation in Buildings and Community Systems</i>						
Comment:						
10004	6/28/1977	4/30/1997	Completed	<input checked="" type="checkbox"/>	Energy Efficiency and Renewable Energy	Heat Transfer and Heat Exchanges
Title: <i>Implementing Agreement for the Establishment of a Project on Heat Transfer and Heat Exchangers</i>						
Comment: DOE's involvement in the agreement ended in 1996. Agreement runs until June 27, 2001						
10005	10/6/1977		Completed	<input checked="" type="checkbox"/>	Fusion Energy	Superconducting Magnets
Title: <i>Implementing Agreement for the Establishment of a Project on Superconducting Magnets for Fusion Power</i>						
Comment:						
10006	10/6/1977		In Force	<input checked="" type="checkbox"/>	Energy Efficiency and Renewable Energy	IEA - Hydrogen
Title: <i>Implementing Agreement for the Establishment of a Project on Hydrogen</i>						
Comment:						

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ID	Start Date	End Date	Status	Legally Binding	Subject	Brief Description
10007	10/6/1977	12/30/2002	In Force	<input checked="" type="checkbox"/>	Fusion Energy	Plasma Wall Interaction in TEXTOR
<p><i>Title: Implementing Agreement for a Programme of Research and Development on Plasma Wall Interaction in Textor</i></p> <p>Comment:</p>						
10008	7/27/1978		In Force	<input checked="" type="checkbox"/>	Energy Efficiency and Renewable Energy	Heat Pumping Technologies
<p><i>Title: Implementing Agreement for a Programme of Research and Development on Advanced Heat Pump Systems</i></p> <p>Comment:</p>						
10009	2/21/1979	12/30/1998	Completed	<input checked="" type="checkbox"/>	Energy Efficiency and Renewable Energy	Energy Storage
<p><i>Title: Implementing Agreement for the Establishment of a Project on Energy Storage</i></p> <p>Comment: DOE involvement ended in 1998. Implementing agreement is still in force. Under the energy end-use technologies working group.</p>						
10010	3/25/1979	6/30/2001	In Force	<input checked="" type="checkbox"/>	Fossil Energy	Coal Combustion Sciences
<p><i>Title: Implementing Agreement for the Establishment of a Project on Coal Combustion Sciences</i></p> <p>Comment:</p>						
10011	5/22/1979		In Force	<input checked="" type="checkbox"/>	Energy Efficiency and Renewable Energy	High Temperature Materials
<p><i>Title: Implementing Agreement for the Establishment of a Project on High Temperature Materials</i></p> <p>Comment: Efficient Energy End-Use Technologies Working Group</p>						
10012	5/22/1979	12/4/1999	Completed	<input checked="" type="checkbox"/>	Fossil Energy	Implementing Agreement for the Establishment of a Project on Enhanced Oil Recovery
<p><i>Title: Implementing Agreement for the Establishment of a Project on Enhanced Oil Recovery</i></p> <p>Comment: Fossil Fuel Technologies working group.</p>						
10013	10/21/1980		Pending	<input checked="" type="checkbox"/>	Fusion Energy	Fusion Materials
<p><i>Title: Implementing Agreement for the Establishment of a Project on Fusion Materials</i></p> <p>Comment:</p>						
10014	2/18/1981	1/1/2002	In Force	<input checked="" type="checkbox"/>	Energy Efficiency and Renewable Energy	Pulp and Paper
<p><i>Title: Implementing Agreement for the Establishment of a Project on Pulp and Paper</i></p> <p>Comment: Efficient Energy end-use technologies</p>						
10015	2/15/1985	8/31/2001	In Force	<input checked="" type="checkbox"/>	Energy Efficiency and Renewable Energy	Advanced Motor Fuels
<p><i>Title: Implementing Agreement for the Establishment of a Project on Alternative Motor Fuels</i></p> <p>Comment: Efficient energy end-use technologies working group</p>						

All Multilateral Implementing Agreements

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10016	7/31/1985	7/30/2000	In Force	<input checked="" type="checkbox"/>	Fusion Energy	Stellarator Research
Title: <i>Implementing Agreement for Cooperation in Development of the Stellarator Concept</i> Comment: Fusion Power						
10017	7/31/1985	7/30/2000	In Force	<input checked="" type="checkbox"/>	Fusion Energy	Toroidal Physics and Plasma Technologies
Title: <i>Implementing Agreement for the Establishment of a Project on Toroidal Physics in and Plasma Technologies of Tokamaks</i> Comment: Fusion Power						
10018	1/15/1986	1/14/2001	In Force	<input checked="" type="checkbox"/>	Fusion Energy	Three Large Tokamak Facilities
Title: <i>Implementing Agreement for the Establishment of a Project on Three Large Tokamak Facilities</i> Comment: Fusion Power						
10019	1/26/1987	9/30/2003	In Force	<input checked="" type="checkbox"/>	Information and/or Personnel Exchange	Energy Technology Data Exchange (ETDE)
Title: <i>Implementing Agreement for the Establishment of the IEA Energy Technology Data Exchanges</i> Comment: Office of Scientific and Technical Information (OSTI) is the operating agent.						
10020	3/16/1987	3/15/2003	In Force	<input checked="" type="checkbox"/>	Fossil Energy	Multiphase Flow Sciences
Title: <i>Implementing Agreement for the Establishment of a Project on Multiphase Flow Sciences</i> Comment: Fossil Fuel Technologies						
10021	3/18/1988		In Force	<input checked="" type="checkbox"/>	Information and/or Personnel Exchange	Energy and Environmental Technology Information Centers (EETIC)
Title: <i>Implementing Agreement to Establish and Operate IEA Information Centres for the Analysis and Dissemination of Demonstrated Energy Technologies</i> Comment: Information Centers						
10022	4/3/1990	4/2/2000	Pending	<input checked="" type="checkbox"/>	Fusion Energy	Reversed Field Pinches
Title: <i>Implementing Agreement for the Establishment of a Project on Reversed Field Pinches</i> Comment: Fusion Power						
10023	8/1/1990	10/1/1998	Completed	<input checked="" type="checkbox"/>	Energy Efficiency and Renewable Energy	Superconductivity
Title: <i>Implementing Agreement for the Establishment of a Project on High-Temperature Superconductivity</i> Comment: To access the impact of high temperature superconductivity of the electric power sector.						
10025	10/21/1991	10/31/2003	Pending	<input checked="" type="checkbox"/>	Energy Efficiency and Renewable Energy	Wind Turbine Systems
Title: <i>Implementing Agreement for Cooperation in the Research and Development of Wind Turbine Systems</i> Comment: Renewable Energy Technologies						

All Multilateral Implementing Agreements

ID	Start Date	End Date	Status	Legally Binding	Subject	Brief Description
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10026 11/21/1991 12/31/2001 In Force Energy Efficiency and Renewable Energy SolarPACES
 Title: *Implementing Agreement for the Establishment of a Project on Solar Power and Chemical Energy Systems*

Comment:

10027 11/20/1991 11/20/2001 In Force Fossil Energy Greenhouse Gases R&D

Title: *Implementing Agreement for a Co-operative Programme on Technologies Relating to Greenhouse Gases Derived from Fossil Fuel Uses*

Comment:

10028 7/6/1992 7/5/2002 In Force Fusion Energy Safety of Fusion Power

Title: *Implementing Agreement on a Co-operative Programme on Environmental, Safety and Economic Aspects of Fusion Power*

Comment:

10031 8/11/1993 8/11/2003 In Force Energy Efficiency and Renewable Energy Photovoltaic Power Systems

Title: *Implementing Agreement for a Co-operative Programme on Photovoltaic Power Systems*

Comment: The mission of the IEA PVPS program is to enhance the international collaboration efforts through which photovoltaic solar energy becomes a significant renewable energy option in the near future.

10032 9/28/1993 9/27/2003 In Force Energy Efficiency and Renewable Energy Demand Side Management

Title: *Implementing Agreement for Co-operation on Technologies and Programmes for Demand Side Management*

Comment: Efficient Energy End-use Technologies

10033 5/17/1994 5/1/2002 In Force Energy Efficiency and Renewable Energy District Heating and Cooling

Title: *Implementing Agreement for the Establishment of a Project on District Heating and Cooling*

Comment: Efficient Energy End-Use Technologies

10034 6/13/1994 6/12/1999 Expired Fusion Energy Nuclear Technology of Fusion Reactors

Title: *Implementing Agreement on a Co-operative Programme on Nuclear Technology of Fusion Reactors*

Comment:

10035 7/12/1994 11/17/2004 Pending Energy Efficiency and Renewable Energy Hybrid and Electric Vehicles

Title: *Implementing Agreement for the Establishment of a Project on Hybrid and Electric Vehicles*

Comment: Efficient Energy End-Use Technologies

10036 1/26/1995 4/4/2000 In Force Fossil Energy International Center for Gas Technology Information

Title: *Implementing Agreement for the Establishment of an International Center for Gas Technology Information*

Comment: Energy Technology Information Centers

All Multilateral Implementing Agreements

ID	Start Date	End Date	Status	Legally Binding	Subject	Brief Description
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10037 5/11/1995 12/31/1998 In Force Energy Efficiency and Renewable Energy Advanced Fuel Cells
 Title: *Implementing Agreement for a Program of Research, Development, and Demonstration on Advanced Fuel Cells*

Comment:

10038 1/1/1996 6/30/1999 Expired *Other - Systems Analysis

Title: *Implementing Agreement for a Programme of Energy Technology Systems Analysis*

Comment:

10039 3/7/1997 3/31/2002 In Force Energy Efficiency and Renewable Energy Geothermal

Title: *Implementing Agreement for the Establishment of a Project on Geothermal*

Comment: Renewable Energy Technologies

Aegis: NEA

10024 9/16/1991 5/8/1997 Expired Information and/or Personnel Exchange
 Exchange of nuclear data and related information and computer packages pertinent to civilian nuclear science and technology collected by NEA-DB, NNDC, ESTSC, EPIC

Title: *Cooperative Arrangement between the United States Department of Energy and the Nuclear Energy Agency of the OECD in the Field of Nuclear Data and Computer Programs*

Comment:

Aegis: None

10029 7/21/1992 7/22/1999 Completed Fusion Energy ITER

Title: *Agreement among the European Atomic Energy Community, Japan, the Russian Federation, and the United States on Cooperation in the Engineering Design Activities for the International Thermonuclear Experimental Reactor (ITER)*

Comment: None, European Union, Japan and Russia (set Aegis to None) - currently file # 308

10030 9/24/1992 9/24/1997 Expired Information and/or Personnel Exchange Exchange of technical data

Title: *Memorandum of Understanding Among the National Board for Industrial and Technical Development of Sweden, The Royal Ministry of Petroleum and Energy of Norway, the Ministry of Trade and Industry of Finland, the Danish Energy Agency, and the Department of Energy of the United States of America*

Comment:

10040 12/4/1997 3/31/2002 In Force Fossil Energy CO2 Sequestration

Title: *Project Agreement for International Collaboration on CO2 Ocean Sequestration*

Comment:

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ID	Start Date	End Date	Status	Legally Binding	Subject	Brief Description
10041	12/8/1997	12/8/2017	In Force	<input checked="" type="checkbox"/>	Science and Technology	CERN - LHC Agreement

Title: *International Co-operation Agreement between the European Organization for Nuclear Research (CERN) and the Department of Energy of the United States of America and the National Science Foundation of the United States of America Concerning Scientific and Technical Co-operation on large Hadron Collider Activities*

Comment:

U.S. DOE - Office of International Science and Technology Cooperation

All In Force Bilateral Agreements

ID	File#	Start Date	End Date	Agreement Type	Legally Binding	Parent ID	Parent Type	Subject	Brief Description
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Country: *Argentina*

61 407 8/1/1996 8/1/2001 Primary DOE None Energy Research and Development Energy Technology Cooperation

Title: *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*

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.

62 409 10/16/1997 10/16/2002 Primary DOE None Arms Control and Nonproliferation Nuclear Technologies

Title: *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*

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.

475 431 4/13/1998 10/16/2002 Secondary DOE 62 Primary DOE Arms Control and Nonproliferation Annex 1 - LEU Moly-99 production

Title: *Project Annex 1 Cooperation in the Field of Molybdenum-99 Production from Low-Enriched Uranium*

Comment: In force as long as the Implementing Arrangement. Action sheets are under development.

521 431 2/8/1999 2/8/2003 Tertiary DOE 475 Secondary DOE Nuclear Energy Action Sheet 1 - Project Annex 1

Title: *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*

Comment:

476 431 4/13/1998 10/16/2002 Intergovernmental 62 Primary DOE Arms Control and Nonproliferation Annex 2 - Boron Neutron Capture Therapy

Title: *Project Annex 2 Cooperation in the Area of Boron Neutron Capture Therapy*

Comment: In force as long as the Implementing Arrangement. Expert visits are underway.

503 431 8/11/1998 Tertiary DOE 476 Secondary DOE Arms Control and Nonproliferation Action Sheet 1

Title: *Action Sheet 1 Pursuant to Project Annex 2 Cooperation in the Field of Boron Neutron Capture Therapy*

Comment: Technical exchange visits.

477 431 4/13/1998 10/16/2002 Secondary DOE 62 Primary DOE Arms Control and Nonproliferation Annex 3 - D&D of Nuclear Facilities

Title: *Project Annex 3 Cooperation in the Field of Decontamination and Decommissioning of Nuclear Facilities*

Comment: In force as long as the Implementing Arrangement. Workshop was successfully held in fall of 98 at ANL.

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ID	File#	Start Date	End Date	Agreement Type	Legally Binding	Parent ID	Parent Type	Subject	Brief Description
496	431	8/18/1998	10/16/2002	Secondary DOE	<input checked="" type="checkbox"/>	62	Primary DOE	Arms Control and Nonproliferation	Annex 4 - Advanced Fuels

Title: *Project Annex 4 Cooperation in Field of Low Enriched Uranium Advanced Fuels*

Comment: Remains in force as long as the Implement Arrangement. Action sheets are under development.

555	431	2/8/1999	2/8/2003	Tertiary DOE	<input type="checkbox"/>	496	Secondary DOE	Arms Control and Nonproliferation	Action Sheet I Annex 4, Dart Code Development
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Title: *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*

Comment:

63	331	4/18/1994	4/18/2004	Primary DOE	<input checked="" type="checkbox"/>	None	None	Arms Control and Nonproliferation	International Safeguards Applications
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Title: *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 Technologies for International Safeguards Applications*

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.

64	387	5/29/1996	5/29/2006	Primary DOE	<input checked="" type="checkbox"/>	None	None	Environmental Restoration and Waste Management	Radioactive and Mixed Waste Management
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Title: *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*

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.

Country: Australia

509	456	9/15/1998	9/14/2008	Primary DOE	<input checked="" type="checkbox"/>	None	None	Arms Control and Nonproliferation	Safeguards Arrangement
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Title: *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*

Comment:

Country: Austria

65	337	9/18/1994		Primary DOE	<input type="checkbox"/>	None	None	Energy Efficiency and Renewable Energy	EE/Conservation and Climate Change
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Title: *Memorandum of Understanding on Cooperation in Environmental Aspects of Energy Policy and the Protection of Global Climate*

Comment: Cooperate in areas of sufficient growth of energy supplies; energy efficiency and conservation measures and protection of the biosphere (climate change).

Country: Bangladesh

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ID	File#	Start Date	End Date	Agreement Type	Legality Binding	Parent ID	Parent Type	Subject	Brief Description
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501	450	12/15/1998		Statement of Intent	<input type="checkbox"/>		None	Energy Research and Development	SOI in Energy Cooperation
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Title: *Joint Statement of Cooperation in Energy*

Comment:

514	460	2/11/1999	2/11/2004	Primary DOE	<input type="checkbox"/>		None	Information and/or Personnel Exchange	Exchange of Energy Information
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Title: *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*

Comment: EIA will work with an agency designated by MEO/MR to establish a reasonably balanced exchange of energy information.

Country: *Botswana*

600	495	12/15/2000		Statement of Intent	<input checked="" type="checkbox"/>		None	Fossil Energy	Cooperation in the Field of Fossil Energy Technology
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Title: *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*

Comment:

Country: *Brazil*

26	391	9/30/1996		Statement of Intent	<input type="checkbox"/>		None	Fossil Energy	Clean Coal Technologies
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Title: *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 Extraçao do Carvão, Eletrobras, and the Ministry of Mines and Energy of the Federal Republic of Brazil*

Comment: Intention to cooperate between DOE, the State of Rio Grande do Sul, the State of Santa Catarina, The Sindicato Nacional da Industria da Extraçao do Carvão, Electrobras, and the Ministry of Mines and Energy of Brazil in clean coal technologies.

75	412	10/14/1997	10/14/2002	Primary DOE	<input checked="" type="checkbox"/>		None	Energy Research and Development	Energy Technology
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Title: *Implementing Arrangement between the United States of America and the Federative Republic of Brazil for Cooperation in the Area of Energy Technology*

Comment: Umbrella Agreement

279	412	10/14/1997	10/14/2002	Secondary DOE	<input checked="" type="checkbox"/>	75	Primary DOE	Fossil Energy	Annex 1 - Coal and Power Systems
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Title: *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*

Comment: Exchange experience and views on clean coal technologies, advanced power systems, advanced coal preparation, and environmental monitoring technologies and standards.

280	412	10/14/1997	10/14/2002	Secondary DOE	<input checked="" type="checkbox"/>	75	Primary DOE	Energy Efficiency and Renewable Energy	Annex 2 - Renewable Energy
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Title: *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*

Comment: Collaboration on renewables resource assessment, integration in electric utility, policy analysis, and identification of opportunities for renewable energy in Brazil.

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ID	File#	Start Date	End Date	Agreement Type	Legally Binding	Parent ID	Parent Type	Subject	Brief Description
281	412	10/14/1997	10/14/2002	Secondary DOE	<input checked="" type="checkbox"/>	75	Primary DOE	Energy Efficiency and Renewable Energy	Annex 3- Energy Efficiency
<p>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></p> <p>Comment: Collaboration to increase energy, efficiency, promote global environmental protection, and stimulate the market in Brazil for energy efficiency goods and services.</p>									
76	332	4/18/1994	4/18/2004	Primary DOE	<input checked="" type="checkbox"/>		None	Arms Control and Nonproliferation	International Safeguards Applications
<p>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></p> <p>Comment:</p>									
77	376	9/19/1995	9/19/2000	Primary DOE	<input checked="" type="checkbox"/>		None	Arms Control and Nonproliferation	International Safeguards Applications
<p>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></p> <p>Comment:</p>									
<p>Country: <u>Canada</u></p>									
28	363	7/21/1995		Statement of Intent	<input type="checkbox"/>	21	Broad	Energy Efficiency and Renewable Energy	Building Energy Simulation Tools
<p>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></p> <p>Comment: Collaborate in building energy simulation R&D and information dissemination.</p>									
81	425	3/18/1998	3/18/2008	Primary DOE	<input type="checkbox"/>		None	Energy Research and Development	Energy R&D
<p>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></p> <p>Comment: Establish wider areas of cooperation for mutual benefit</p>									
524	469	2/1/2000	2/1/2005	Secondary DOE	<input checked="" type="checkbox"/>	81	Primary DOE	Fossil Energy	DOE/NRCan Fuel Cells Implementing Arrangement
<p>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></p> <p>Comment: Automatic Renewal after 5 years with written agreement of the participants.</p>									
525	470	2/1/2000	2/1/2005	Secondary DOE	<input checked="" type="checkbox"/>	81	Primary DOE	Fossil Energy	DOE/NRCan Fossil Fuels Implementing Arrangement
<p>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></p> <p>Comment: Automatic renewal for 5 years with written agreement of the participants.</p>									

Country: Chile

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35	352	3/7/1995		Statement of Intent	<input type="checkbox"/>	None	None	Energy Efficiency and Renewable Energy	Control Emissions of Greenhouse Gases
<p>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></p> <p>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.</p>									
474	430	4/18/1998	4/12/2000	Statement of Intent	<input type="checkbox"/>	None	None	Energy Efficiency and Renewable Energy	Natural Gas-Powered Bus Pilot Project
<p>Title: <i>Statement of Intent Concerning the Natural Gas-Powered Bus Pilot Project in the Metropolitan Region of Chile</i></p> <p>Comment: Signed in Santiago, Chile, during the SOAII</p>									

Country: China

1	427	1/31/1979	4/30/2001	Intergovernmental	<input checked="" type="checkbox"/>	None	None	Science and Technology	Gov't to Gov't S&T
<p>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></p> <p>Comment: Need copy of agreement</p>									
238	123	5/11/1983	4/30/2001	Primary DOE	<input checked="" type="checkbox"/>	1	Intergovernmental	Fusion Energy	Protocol on Nuclear Physics and Magnetic Fusion
<p>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></p> <p>Comment: Cooperate in promoting each other's program in Nuclear Physics and Controlled Magnetic Fusion. Co-terminates with umbrella S&T agreement.</p>									
290	223	9/28/1987	4/30/2001	Secondary DOE	<input checked="" type="checkbox"/>	239	Primary DOE	Fossil Energy	Annex 2 - Mine Safety and Health
<p>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></p> <p>Comment: Co-terminates with the Protocol</p>									
291	217	8/19/1987	4/30/2001	Secondary DOE	<input checked="" type="checkbox"/>	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	10/13/1987	4/30/2001	Secondary DOE	<input checked="" type="checkbox"/>	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>									

All In Force Bilateral Agreements

ID	File#	Start Date	End Date	Agreement Type	Legality Binding	Parent ID	Parent Type	Subject	Brief Description
293	227	10/13/1987	4/30/2001	Secondary DOE	<input checked="" type="checkbox"/>	239	Primary DOE	Fossil Energy	Annex 5 - Atmospheric Fluidized Bed Combustion Info Exchange
<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	<input checked="" type="checkbox"/>	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	<input checked="" type="checkbox"/>	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 change.</p>									
485	439	11/14/1997	11/14/2002	Secondary DOE	<input checked="" type="checkbox"/>	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	11/14/1997	11/14/2002	Secondary DOE	<input checked="" type="checkbox"/>	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>									
240	351	2/23/1995	2/22/2005	Primary DOE	<input checked="" type="checkbox"/>	1	Intergovernmental	Energy Efficiency and Renewable Energy	Protocol for Energy Efficiency and Renewable Energy
<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	<input checked="" type="checkbox"/>	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>									

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299	420	10/25/1996	10/25/2001	Secondary DOE	<input checked="" type="checkbox"/>	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	422	10/25/1996	10/25/2001	Secondary DOE	<input checked="" type="checkbox"/>	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	421	10/25/1996	10/25/2001	Secondary DOE	<input checked="" type="checkbox"/>	240	Primary DOE	Energy Efficiency and Renewable Energy	Annex 4 - Renewable Energy Business Development
<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	11/18/1997	11/18/2002	Secondary DOE	<input checked="" type="checkbox"/>	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>									
303	415	11/18/1997	11/18/2002	Secondary DOE	<input checked="" type="checkbox"/>	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	<input type="checkbox"/>	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: Remains in force for five years or until termination of the Protocol, whichever occurs first.</p>									
<p>Comment:</p>									
563	486	5/11/2000	5/11/2005	Secondary DOE	<input checked="" type="checkbox"/>	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>									

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ID	File#	Start Date	End Date	Agreement Type	Legally Binding	Parent ID	Parent Type	Subject	Brief Description
241	38	1/31/1979	4/30/2001	Primary DOE	<input checked="" type="checkbox"/>	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>									
242	311	11/4/1992	11/4/2002	Primary DOE	<input checked="" type="checkbox"/>	1	Intergovernmental	High Energy Physics	Superconducting Super Collider
<p>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></p> <p>Comment:</p>									
522	467	1/12/2000	1/12/2005	Primary DOE	<input checked="" type="checkbox"/>	1	Intergovernmental	Information and/or Personnel Exchange	Exchange of Energy Information
<p>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></p> <p>Comment:</p>									
531	476	4/20/2000	4/30/2001	Primary DOE	<input checked="" type="checkbox"/>	1	Intergovernmental	Fossil Energy	Fossil Energy Protocol
<p>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></p> <p>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.</p>									
3	410	10/29/1997		Intergovernmental	<input type="checkbox"/>		None	*Other - Energy and Environment	Energy and Environment Cooperation Initiative
<p>Title: <i>United States of American and People's Republic of China Energy and Environment Cooperation Initiative</i></p> <p>Comment:</p>									
31	347	2/23/1995		Statement of Intent	<input type="checkbox"/>		None	Nuclear Energy	Research Reactor Fuel
<p>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></p> <p>Comment: Exchange information and views on opportunities for the conversion of research reactors to the use of low enriched uranium.</p>									
493	445	6/29/1998	6/29/2003	Primary DOE	<input checked="" type="checkbox"/>		None	Nuclear Energy	Nuclear Technologies Agreement
<p>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></p> <p>Comment: Subject to the Gov't to Gov't Peaceful Uses of Nuclear Energy Agreement signed July 23, 1985.</p>									
494	445	6/29/1998	6/29/2003	Secondary DOE	<input checked="" type="checkbox"/>	493	Primary DOE	Nuclear Energy	Annex I - IPR
<p>Title: <i>Annex I- Intellectual Property</i></p> <p>Comment: Attached to original agreement.</p>									

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554	483	3/29/1999		Statement of Intent	<input type="checkbox"/>		None	*Other - Energy and Environment	MOU on Clean Energy Projects and Technologies
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Title: *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*

Comment:

84	345	2/23/1995		Primary DOE	<input type="checkbox"/>		None	*Other - Bilateral Energy Consultations	Bilateral Energy Consultations
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Title: *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*

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	<input type="checkbox"/>		None	Energy Efficiency and Renewable Energy	Electric Transport
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Title: *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*

Comment:

504	451	11/17/1998	11/17/2003	Primary DOE	<input type="checkbox"/>		None	Arms Control and Nonproliferation	Sister Lab Arrangement
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Title: *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*

Comment: ACDA led sister lab.

Country: Czech Republic

4	300	10/22/1991	10/22/2001	Intergovernmental	<input checked="" type="checkbox"/>		None	Science and Technology	Science & Technology
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Title: *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*

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.

Country: Egypt

517	463	7/1/1999	7/1/2004	Primary DOE	<input type="checkbox"/>		None	Energy Research and Development	Energy Technology Agreement
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Title: *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*

Comment:

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ID	File#	Start Date	End Date	Agreement Type	Legally Binding	Parent ID	Parent Type	Subject	Brief Description
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527	472	2/23/2000	2/23/2005	Secondary DOE	<input checked="" type="checkbox"/>	517	Primary DOE	Energy Efficiency and Renewable Energy	Annex 1 - Renewable Energy
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Title: *Annex 1 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*

Comment:

528	473	2/23/2000	2/23/2005	Secondary DOE	<input checked="" type="checkbox"/>	517	Primary DOE	Energy Efficiency and Renewable Energy	Annex 2 - Fuel Cells
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Title: *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*

Comment:

Country: Estonia

526	471	2/4/2000	2/4/2003	Primary DOE	<input checked="" type="checkbox"/>		None	Fossil Energy	Oil Shale Research and Utilization
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Title: *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*

Comment: Establishes a Joint Coordinating Committee to manage cooperative work under the agreement.

99	353	3/13/1995	3/13/2000	Primary DOE	<input checked="" type="checkbox"/>		None	Environmental Restoration and Waste Management	Technical Cooperation in Clean-up Paldiski Site
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Title: *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*

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: European Atomic Energy Community (EURATOM)

568	490	1/6/1995	1/6/2005	Primary DOE	<input checked="" type="checkbox"/>		None	International Safeguards	EURATOM Safeguards
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Title: *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*

Comment: Auto renewal for five years periods.

576	490	2/18/1999	2/18/2001	Secondary DOE	<input checked="" type="checkbox"/>	568	Primary DOE	International Safeguards	Action Sheet 10 - Tank Analysis
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Title: *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*

Comment:

Country: Finland

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ID	File#	Start Date	End Date	Agreement Type	Legally Binding	Parent ID	Parent Type	Subject	Brief Description
116	393	1/17/1997	1/17/2001	Primary DOE	<input checked="" type="checkbox"/>	None	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 Development</i> Comment: Auto renewal for 5 years									

Country: France

39	132	10/27/1983		Secondary DOE	<input type="checkbox"/>	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	<input type="checkbox"/>	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.									
128	416	12/29/1997	12/29/2002	Primary DOE	<input checked="" type="checkbox"/>	None	None	Arms Control and Nonproliferation	Material Control and Accounting
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> Comment: Cooperate on research, development, testing and evaluation in the area of nuclear material control and accounting measures.									
577	416	1/20/2000	1/20/2001	Secondary DOE	<input checked="" type="checkbox"/>	128	Primary DOE	Arms Control and Nonproliferation	Action Sheet 2 - Isotopic Analysis Evaluation Using the PC/FRAM Physics Isotopics Software
Title: <i>Action Sheet No. 2 The United States Department of Energy (DOE) and The Commissariat a l'Energie Atomique (CEA) of France for Isotopic Analysis Evaluation Using the PC/FRAM Physics Isotopics Software</i> Comment:									
129	417	12/29/1997	12/29/2002	Primary DOE	<input checked="" type="checkbox"/>	None	None	Arms Control and Nonproliferation	Physical Protection of Nuclear Materials
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> Comment: Improve the US & France nuclear materials and facilities physical protection procedures									
567	417	3/1/4/2000	3/1/4/2002	Secondary DOE	<input checked="" type="checkbox"/>	129	Primary DOE	International Safeguards	Action Sheet 3 - Nuclear Materials Transportation Security
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> Comment:									

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ID	File#	Start Date	End Date	Agreement Type	Legally Binding	Parent ID	Parent Type	Subject	Brief Description
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130 357 4/26/1995 4/26/2005 Primary DOE None None High Energy Physics Accelerator Driven Technology

Title: *Agreement between the Department of Energy and the Commissariat a l'Energie Atomique for Cooperation in Research Development and Application for Accelerators driven Technology*

Comment: Conduct cooperative program of scientific and technical engineering in research, development and application for accelerator driven technology

131 377 9/20/1995 9/20/2000 Primary DOE None None Civilian Radioactive Waste Management Radioactive Waste Management

Title: *Agreement between the United States Department of Energy and the French Commissariat a l'Energie Atomique in the field of Radioactive Waste Management*

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.

132 379 10/8/1995 10/8/2000 Primary DOE None None Civilian Radioactive Waste Management Radioactive Waste Management

Title: *Agreement between the United States Department of Energy and the National Radioactive Waste Management Agency of France in the Field of Radioactive Waste Management*

Comment: Cooperate for purposes of minimizing consequences of radioactive contamination on health and environment and promoting safe and economic application of nuclear energy.

564 487 5/9/2000 5/9/2005 Primary DOE None None Defense Programs DOE/DGA Emerging Technologies

Title: *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*

Comment: Auto Renewal for 5 year periods. 1994 - High Energy Lasers

582 257 8/9/1994 8/9/2004 Primary DOE None None Defense Programs

Title: *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-Matter Interaction Physics*

Comment: 1994 - High Energy Lasers

316 342 11/19/1994 Secondary DOE 582 Primary DOE Defense Programs Megajoule-Class Solid State Lasers - IA #1

Title: *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*

Comment: Sharing of specific S&T information related to megajoule-class solid state lasers. Megajoule-Class Solid State Laser Technology - IA #2

317 343 11/19/1994 8/9/2004 Secondary DOE 582 Primary DOE Defense Programs

Title: *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*

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 systems)

601 496 9/18/2000 9/18/2005 Primary DOE None None Nuclear Energy Advanced Nuclear Reactor

Title: *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*

Comment:

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ID	File#	Start Date	End Date	Agreement Type	Legally Binding	Parent ID	Parent Type	Subject	Brief Description
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Country: Germany

88 419 2/20/1998 2/20/2003 Primary DOE None Energy Research and Development Energy Research

Title: *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*

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: *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*

Comment:

93 31 9/27/1977 Primary DOE None Arms Control and Nonproliferation Nuclear Materials Safeguards/Physical Security

Title: *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*

Comment: Open-end expiration date

Country: Ghana

149 392 10/1/1996 10/1/2001 Primary DOE None Energy Research and Development Energy Policy, S&T and Development

Title: *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*

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.

330 399 2/27/1997 2/27/2001 Secondary DOE 149 Primary DOE Energy Efficiency and Renewable Energy Industrial Assessment Center

Title: *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*

Comment:

43 378 9/29/1995 Statement of Intent None Energy Efficiency and Renewable Energy Energy Efficiency and Renewable Energy

Title: *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*

Comment: Exchanging experience and views on opportunities for the utilization of energy efficiency and renewable energy technologies.

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ID	File#	Start Date	End Date	Agreement Type	Legally Binding	Parent ID	Parent Type	Subject	Brief Description
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44	380	10/30/1995		Primary DOE	<input type="checkbox"/>		None	Nuclear Energy	Peaceful Uses of Nuclear Energy
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Title: *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*

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)

Country: *Israel*

156	384	2/1/1996	2/1/2001	Primary DOE	<input checked="" type="checkbox"/>		None	Energy Efficiency and Renewable Energy	Energy Cooperation
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Title: *Agreement between the Department of Energy of the United States of America and the Ministry of Energy and Infrastructure of Israel Concerning Energy Cooperation*

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.

530	475	2/22/2000		Statement of Intent	<input type="checkbox"/>		None	Arms Control and Nonproliferation	SOL on Nonproliferation, Arms Control and Regional Security
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Title: *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*

Comment:

Country: *Italy*

160	358	5/26/1995	5/26/2000	Primary DOE	<input checked="" type="checkbox"/>		None	Energy Research and Development	Energy R&D
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Title: *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*

Comment: continues 1985 MOU in Energy R&D

344	358	5/7/1997		Secondary DOE	<input checked="" type="checkbox"/>	160	Primary DOE	Fossil Energy	Annex 3 - Fossil Energy
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Title: *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*

Comment: Two additional areas were added in March 1998: fuel cells for power applications and externally fired combined cycle systems

345	358	3/24/1998	3/24/2003	Secondary DOE	<input checked="" type="checkbox"/>	160	Primary DOE	Energy Efficiency and Renewable Energy	Annex 4 - Advanced Geothermal Technology
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Title: *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*

Comment: Provides for collaboration between Ladello and the Geysir Geothermal Facilities

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ID	File#	Start Date	End Date	Agreement Type	Legally Binding	Parent ID	Parent Type	Subject	Brief Description
346	358	3/24/1998	3/24/2008	Secondary DOE	<input checked="" type="checkbox"/>	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	<input checked="" type="checkbox"/>	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>									
492	444	7/10/1998	7/10/2003	Secondary DOE	<input checked="" type="checkbox"/>	160	Primary DOE	Energy Research and Development	Annex 7 - Electric and Hybrid Vehicles
<p>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></p> <p>Comment: Remains in force for 5 years or until the Agreement expires, whichever is sooner.</p>									
7	323	10/4/1993	10/4/2003	Intergovernmental	<input checked="" type="checkbox"/>		None	Science and Technology	Gov't to Gov't S & T
<p>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></p> <p>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.</p>									
46	323	10/31/1989		Statement of Intent	<input type="checkbox"/>	7	Intergovernmental	Information and/or Personnel Exchange	Synchrotron Light Source
<p>Title: <i>Protocol 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></p> <p>Comment:</p>									
<p>Country: Japan</p>									
251	385	5/3/1996	5/3/2001	Primary DOE	<input checked="" type="checkbox"/>	10	Intergovernmental	Science and Technology	DOE/STA Basic Science & Technology
<p>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></p> <p>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.</p>									
166	195	12/3/1986	12/2/2001	Primary DOE	<input checked="" type="checkbox"/>		None	Nuclear Energy	Radioactive Waste Management
<p>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></p> <p>Comment: Study topics and develop cooperatively and jointly technology and techniques necessary for the safe management of radioactive wastes.</p>									

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511	195	7/17/1998	7/17/2000	Secondary DOE	<input checked="" type="checkbox"/>	166	Primary DOE	Civilian Radioactive Waste Management	Project Annex on Engineered Barriers
<p>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></p> <p>Comment:</p>									
395	365	2/19/1997	5/19/2000	Secondary DOE	<input checked="" type="checkbox"/>	171	Primary DOE	Arms Control and Nonproliferation	Action Sheet 30 - Randomized Inspection (PNC)
<p>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></p> <p>Comment:</p>									
545	365	12/18/1998	12/18/2001	Secondary DOE	<input checked="" type="checkbox"/>	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 Accountability Glove Box at PFPF</i></p> <p>Comment:</p>									
546	365	12/18/1998	12/18/2001	Secondary DOE	<input checked="" type="checkbox"/>	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 Virrification Facility Safeguards System</i></p> <p>Comment:</p>									
547	365	3/12/1999	3/12/2002	Secondary DOE	<input checked="" type="checkbox"/>	171	Primary DOE	Arms Control and Nonproliferation	Action Sheet 39 - Radiation Sensor Monitors at Monju
<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 CS at Monju Reactor Core</i></p> <p>Comment:</p>									
548	365	3/22/1999	3/22/2002	Secondary DOE	<input checked="" type="checkbox"/>	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	<input checked="" type="checkbox"/>	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>									

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173	356	4/11/1995	4/11/2005	Primary DOE	<input type="checkbox"/>	None	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	<input checked="" type="checkbox"/>	None	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>									
397	428	4/23/1998	4/23/2001	Secondary DOE	<input checked="" type="checkbox"/>	174	Primary DOE	High Energy Physics	Collaborative program for target development for high power spallation neutron sources
<p>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></p> <p>Comment: Work will be performed at the Alternating Gradient Synchrotron facility at Brookhaven National Laboratory</p>									
481	435	6/9/1997	6/9/2007	Secondary DOE	<input checked="" type="checkbox"/>	174	Primary DOE	Arms Control and Nonproliferation	SMA - Safeguards
<p>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></p> <p>Comment:</p>									
523	468	1/27/2000	1/27/2005	Primary DOE	<input checked="" type="checkbox"/>	None	None	Arms Control and Nonproliferation	DOE/JNC Safeguards Agreement
<p>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></p> <p>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.</p>									
550	482	1/27/2000	7/27/2001	Secondary DOE	<input checked="" type="checkbox"/>	523	Primary DOE	Arms Control and Nonproliferation	Action Sheet 42 Measurement Methods for Scrap Materials
<p>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></p> <p>Comment:</p>									
551	482	1/27/2000	1/27/2003	Secondary DOE	<input checked="" type="checkbox"/>	523	Primary DOE	Arms Control and Nonproliferation	Action Sheet 43 NDA Techniques at Ningyo
<p>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></p> <p>Comment:</p>									

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552	482	1/27/2000	1/27/2002	Secondary DOE	<input checked="" type="checkbox"/>	523	Primary DOE	Arms Control and Nonproliferation	Action Sheet 44 - Dry Reprocessing Methods
<p>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 Methods</i></p> <p>Comment:</p>									
553	482	1/27/2000	1/27/2003	Secondary DOE	<input checked="" type="checkbox"/>	523	Primary DOE	Arms Control and Nonproliferation	Action Sheet 45 Remote Monitoring System at PFPF
<p>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></p> <p>Comment:</p>									
597	492	8/22/2000	8/22/2005	Primary DOE	<input checked="" type="checkbox"/>		None	Nuclear Energy	Agreement for Nuclear Technologies
<p>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></p> <p>Comment:</p>									
8	42	5/21/1979	5/1/2005	Intergovernmental	<input checked="" type="checkbox"/>		None	Energy Research and Development	US/Japan Energy and Related Fields Agreement
<p>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></p> <p>Comment: Maintaining and intensifying cooperation in research and development in energy and related fields.</p>									
22	114	1/24/1983	5/1/2005	Broad	<input checked="" type="checkbox"/>	8	Intergovernmental	Fusion Energy	Fusion Energy
<p>Title: <i>Exchange of Notes establishing the Cooperation in Fusion Research and Development</i></p> <p>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.</p>									
255	116	1/25/1983	5/1/2005	Primary DOE	<input checked="" type="checkbox"/>	22	Broad	Fusion Energy	Fusion Energy - MITI
<p>Title: <i>Exchange of Letters establishing the MITI-DOE Cooperation in Fusion Research and Development</i></p> <p>Comment: Remains in effect as long as the Exchange of Notes between USA-Japan on Cooperation in Fusion Research and Development</p>									
256	117	1/25/1983	5/1/2005	Primary DOE	<input checked="" type="checkbox"/>	22	Broad	Fusion Energy	Fusion Energy - STA - Primary DOE agreement
<p>Title: <i>Exchange of Letters establishing the STA-DOE Cooperation in Fusion Research and Development</i></p> <p>Comment: Remains in effect as long as the Exchange of Notes between USA-Japan on Cooperation in Fusion Research and Development</p>									
417	134	11/8/1983	5/1/2005	Secondary DOE	<input checked="" type="checkbox"/>	256	Primary DOE	Fusion Energy	Fusion Research and Development - JAERI
<p>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></p> <p>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.</p>									

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ID	File#	Start Date	End Date	Agreement Type	Legally Binding	Parent ID	Parent Type	Subject	Brief Description
463	133	11/8/1983	3/31/2004	Tertiary DOE	<input checked="" type="checkbox"/>	417	Secondary DOE	Fusion Energy	Annex 1 - First Wall and Blanket Structural Materials
<p>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></p> <p>Comment: JOINT IRRADIATION EXPERIMENTS AND EVALUATION OF RESULTS.</p>									
466	210	6/11/1987	6/11/2001	Tertiary DOE	<input checked="" type="checkbox"/>	417	Secondary DOE	Fusion Energy	Annex 4 - Fusion - Fuel Processing
<p>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></p> <p>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, etc.</p>									
471	270	1/11/1990	1/11/2005	Tertiary DOE	<input checked="" type="checkbox"/>	417	Secondary DOE	Fusion Energy	Annex 9 - Data Link
<p>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></p> <p>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</p>									
257	115	1/29/1983	5/1/2005	Primary DOE	<input checked="" type="checkbox"/>	22	Broad	Fusion Energy	Fusion Energy - Monbusho - Primary DOE agreement
<p>Title: <i>Exchange of Letters establishing the Monbusho-DOE Cooperation in Fusion Research and Development</i></p> <p>Comment: Remains in effect as long as the Exchange of Notes between USA-Japan on Cooperation in Fusion Research and Development</p>									
419	214	7/17/1987	7/19/2001	Secondary DOE	<input checked="" type="checkbox"/>	257	Primary DOE	Fusion Energy	Annex 1 - Irradiation Effects Utilizing Fission Reactor
<p>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></p> <p>Comment: JOINT IRRADIATION AND EVALUATION EXPERIMENTS ON MATERIALS</p>									
420	238	12/12/1988	12/21/2003	Secondary DOE	<input checked="" type="checkbox"/>	257	Primary DOE	Fusion Energy	Annex 2 - Data Link & Data Link Projects for Fusion
<p>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></p> <p>Comment: STEERING COMMITTEE MEETING</p>									
602	497	1/17/2001	7/19/2007	Secondary DOE	<input checked="" type="checkbox"/>	257	Primary DOE	Fusion Energy	Amendment 4 - Annex 1 Fusion Research and Development
<p>Title: <i>Amendment 4 of Annex I to the DOE - Monbusho Exchange of Letters on Cooperation in Fusion Research and Development</i></p> <p>Comment:</p>									

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259	228	10/16/1987	5/1/2005	Primary DOE	<input checked="" type="checkbox"/>	8	Intergovernmental	Fossil Energy	Coal R&D - AIST and ANRE
<p>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></p> <p>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.</p>									
262	48	8/24/1979	5/1/2005	Primary DOE	<input type="checkbox"/>	8	Intergovernmental	Fusion Energy	Fusion Energy/Coordinating Committee
<p>Title: <i>Exchange of Letters Establishing a Coordinating Committee on Fusion Energy</i></p> <p>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.</p>									
263	50	8/28/1979	8/28/2000	Primary DOE	<input checked="" type="checkbox"/>	8	Intergovernmental	Fusion Energy	Fusion Energy/Doublet III
<p>Title: <i>Agreement between the United States Department of Energy and the Japan Atomic Energy Research Institute on Cooperation in Doublet III Project</i></p> <p>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.</p>									
264	58	11/1/1979	5/1/2005	Primary DOE	<input checked="" type="checkbox"/>	8	Intergovernmental	High Energy Physics	High Energy Physics
<p>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></p> <p>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 force for the duration of the U.S.-Japan R&D in Energy and Related Fields Agreement signed on May 2, 1979</p>									
<p>Country: <u>Kazakhstan</u></p>									
186	402	7/12/1996		Primary DOE	<input checked="" type="checkbox"/>	None	None	Science and Technology	Energy R&D and Tech exchange
<p>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></p> <p>Comment:</p>									
428	402	5/13/1997		Secondary DOE	<input checked="" type="checkbox"/>	186	Primary DOE	*Other - Remote Sensing	Remote Sensing Mission
<p>Title: <i>Annex 1 - For the Conduct of the Remote Sensing Mission (AMPS) in the Republic of Kazakhstan</i></p> <p>Comment:</p>									
529	474	12/19/2000		Primary DOE	<input checked="" type="checkbox"/>	None	None	Arms Control and Nonproliferation	Decommissioning of the BN-350 Reactor
<p>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></p> <p>Comment:</p>									

Country: Korea, Republic of

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180	389	6/14/1996	6/14/2001	Primary DOE	<input checked="" type="checkbox"/>	11	Intergovernmental	Fusion Energy	Fusion Energy Research and Related Fields
<p>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></p> <p>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.</p>									
179	388	6/14/1996	6/14/2001	Primary DOE	<input checked="" type="checkbox"/>	None	None	Nuclear Energy	Cooperative Laboratory Relationship
<p>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></p> <p>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</p>									
595	388	6/29/2000	6/29/2005	Secondary DOE	<input checked="" type="checkbox"/>	179	Primary DOE	Nuclear Energy	Annex 4 - Cintichem Process Technology (first project annex)
<p>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></p> <p>Comment:</p>									

Country: Mexico

12	41	6/15/1972		Intergovernmental	<input checked="" type="checkbox"/>	None	None	Science and Technology	Science & Technology
<p>Title: <i>Agreement Between the United States of America and Mexico for Scientific and Technical Cooperation</i></p> <p>Comment: Effected by Exchange of Notes Signed at Washington June 15, 1972</p>									
270	386	5/7/1996	5/7/2001	Primary DOE	<input checked="" type="checkbox"/>	12	Intergovernmental	Energy Research and Development	Energy Cooperation
<p>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></p> <p>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.</p>									
483	437	6/10/1998	6/10/2001	Secondary DOE	<input checked="" type="checkbox"/>	270	Primary DOE	Energy Efficiency and Renewable Energy	Annex 1 - Renewable Energy
<p>Title: <i>Project Annex 1 Cooperation in the Field of Renewable Energy</i></p> <p>Comment: Project areas under discussion by SNL and CNEA (Mexico National Commission for Energy Savings)</p>									
484	438	6/10/1998	6/10/2001	Secondary DOE	<input checked="" type="checkbox"/>	270	Primary DOE	Energy Efficiency and Renewable Energy	Annex 2 - Energy Efficiency
<p>Title: <i>Project Annex 2 Cooperation in the Field of Energy Efficiency</i></p> <p>Comment: Project areas under discussion.</p>									

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498	447	10/21/1998	10/21/2001	Secondary DOE	<input checked="" type="checkbox"/>	270	Primary DOE	Environmental Restoration and Waste Management	Annex 3 - Enviro Cooperation in hydrocarbons

Title: *Project Annex 3 - Environmental Cooperation in the Field of Hydrocarbons*

Comment: Facilitating work between Mexico Institute of Petroleum and ORNL.

519	465	12/7/1999	5/7/2001	Secondary DOE	<input checked="" type="checkbox"/>	270	Primary DOE	Fossil Energy	Annex 4 - Clean Fossil Energy Technologies
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Title: *Project Annex 4 Cooperation in the field of Clean Fossil Energy Technologies*

Comment: Annex is in force as long as the Agreement is in force.

188	405	3/25/1985	3/25/2005	Primary DOE	<input type="checkbox"/>		None	Arms Control and Nonproliferation	Sister Lab Arrangement
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Title: *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*

Comment: Sister lab arrangement supporting Article IV of the NPT.

604	499	3/9/2001		Broad	<input type="checkbox"/>		None	Fifth Hemispheric Energy Ministers Meeting	Mexico Declaration
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Title: *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*

Comment:

Country: *Morocco*

599	494	10/16/2000	10/16/2005	Primary DOE	<input checked="" type="checkbox"/>		None	Energy Efficiency and Renewable Energy	Agreement on Concerning Cooperation in Energy Efficiency and Renewable Energy
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Title: *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*

Comment:

Country: *Nigeria*

48	76	7/23/1980		Statement of Intent	<input type="checkbox"/>		None	Energy Research and Development	Energy R&D
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Title: *Memorandum of Intent Concerning Energy Cooperation between the Government of the United States of America and the Government of the Federal Republic of Nigeria*

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	<input type="checkbox"/>		None	*Other - Energy Policy	MOU on Energy Policy
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Title: *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*

Comment:

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Country: Pakistan

49 339 9/24/1994 Statement of Intent None *Other - Climate Change Climate Change

Title: *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*

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: *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*

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.

51 340 9/24/1994 Statement of Intent None Energy Efficiency and Renewable Energy Statement of Intent w/ Ministry of Water and Power

Title: *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*

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.

Country: Palestinian Authority

535 479 2/22/2000 Statement of Intent None Energy Research and Development Energy Planning SOI

Title: *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*

Comment:

Country: Peru

512 458 6/17/1991 6/16/2001 Primary DOE None Arms Control and Nonproliferation Sister Lab Arrangement

Title: *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*

Comment:

603 498 3/8/2001 Statement of Intent None Cooperation in the Field of Energy Cooperation in the Field of Energy

Title: *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*

Comment:

Country: Philippines

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ID	File#	Start Date	End Date	Agreement Type	Legally Binding	Parent ID	Parent Type	Subject	Brief Description
195	403	6/19/1997	6/19/2002	Primary DOE	<input type="checkbox"/>	None	None	Information and/or Personnel Exchange	Info Exchange

Title: *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 Information*

Comment:

Country: Poland

13	224	9/28/1987	9/28/2002	Intergovernmental	<input checked="" type="checkbox"/>	None	None	Science and Technology	Science & Technology
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Title: *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*

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.

198	367	8/21/1995	8/21/2000	Primary DOE	<input checked="" type="checkbox"/>	None	None	Environmental Restoration and Waste Management	Environmental Restoration Hazardous Waste Mgmt
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Title: *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*

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.

Country: Romania

513	459	3/29/1999	3/26/2004	Primary DOE	<input type="checkbox"/>	None	None	Arms Control and Nonproliferation	Sister Lab Arrangement
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Title: *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*

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 energy.

Country: Russian Federation

203	395	9/16/1996	9/16/2001	Primary DOE	<input checked="" type="checkbox"/>	14	Intergovernmental	Environmental Restoration and Waste Management	Environmental Restoration and Waste Management
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Title: *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*

Comment:

211	396	9/16/1996	9/16/2001	Primary DOE	<input checked="" type="checkbox"/>	14	Intergovernmental	Nuclear Energy	Nuclear Reactor Safety
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Title: *Memorandum of Cooperation between the United States of America and the Russian Federation in the Field of Civilian Nuclear Reactor Safety*

Comment: replaces MOU in Civilian Nuclear Reactor Safety signed 26 April, 1988

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ID	File#	Start Date	End Date	Agreement Type	Legality Binding	Parent ID	Parent Type	Subject	Brief Description
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213	397	9/16/1996	9/16/2001	Primary DOE	<input checked="" type="checkbox"/>	14	Intergovernmental	Fusion Energy	Magnetic Confinement Fusion
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Title: *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*

Comment: Focus on Fusion science research and development

436	397	9/16/1996	9/16/2001	Secondary DOE	<input checked="" type="checkbox"/>	213	Primary DOE	Nuclear Energy	Annex 1
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Title: *Annex 1 - List of Organizations that could participate*

Comment:

214	398	2/17/1997	2/17/2002	Primary DOE	<input checked="" type="checkbox"/>	14	Intergovernmental	*Other - High Energy and Nuclear Physics	Fundamental Properties of Matter
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Title: *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*

Comment: activities coordinated by the Joint Coordinating Committee for Research in the Fundamental Properties of Matter (FCC-FPM)

15	315	2/18/1993		Intergovernmental	<input checked="" type="checkbox"/>	None	Nuclear Energy		Disposition HEU Extracted From Nuclear Weapons
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Title: *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*

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	<input checked="" type="checkbox"/>	None	*Other - Fuel Cell Technology	RAFCO	
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Title: *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*

Comment: Joint R&D work in fuel cell technology development

208	324	1/14/1994	1/14/2004	Intergovernmental	<input checked="" type="checkbox"/>	None	Environmental Safety Health	Radioactive Contamination Health & Environment	
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Title: *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*

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	<input checked="" type="checkbox"/>	None	Arms Control and Nonproliferation	Nonproliferation of Weapons/Weapons Expertise	
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Title: *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*

Comment: Facilitate cooperation under the ISTC agreement including the efforts to reduce or eliminate weapons of mass destruction in a safe and secure manner.

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ID	File#	Start Date	End Date	Agreement Type	Legally Binding	Parent ID	Parent Type	Subject	Brief Description
209	359	6/15/1995		Secondary DOE	<input checked="" type="checkbox"/>	210	Primary DOE	Fusion Energy	Annex I Weapons Expertise for the Globus-M Project
<p>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></p> <p>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.</p>									
536	480	6/22/1999	6/22/2001	Secondary DOE	<input checked="" type="checkbox"/>	210	Primary DOE	Fusion Energy	ISTC Annex III -Advanced Diagnostics equipment for Spherical Tokamak Globus-M
<p>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></p> <p>Comment:</p>									
435	328	3/16/1994		Primary DOE	<input type="checkbox"/>		None	Nuclear Energy	Replacement of Russian Pu Production Reactors
<p>Title: <i>Protocol of Meeting between the United States and the Russian Federation on the Replacement of Russian Plutonium Production Reactors</i></p> <p>Comment: Plan for replacement of plutonium production reactors with alternate energy sources.</p>									
515	461	9/22/1998	9/22/2003	Intergovernmental	<input checked="" type="checkbox"/>		None	Arms Control and Nonproliferation	Nuclear Cities Initiative
<p>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></p> <p>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</p>									
518	464	3/24/1999	3/24/2004	Primary DOE	<input checked="" type="checkbox"/>		None	Science and Technology	MOU w/ Russian Academy of Sciences
<p>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></p> <p>Comment:</p>									
565	488	5/15/2000	3/24/2004	Secondary DOE	<input checked="" type="checkbox"/>	518	Primary DOE	Environmental Restoration and Waste Management	DOE/RAS Implementing Arrangement I
<p>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></p> <p>Comment:</p>									
590	488	5/16/2000	9/20/2002	Tertiary DOE	<input checked="" type="checkbox"/>	565	Secondary DOE	Environmental Restoration and Waste Management	Appendix D - Uranium Mass Transport Phenomena
<p>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 Tuff</i></p> <p>Comment:</p>									

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ID	File#	Start Date	End Date	Agreement Type	Legally Binding	Parent ID	Parent Type	Subject	Brief Description
593	488	5/18/2000	9/30/2003	Tertiary DOE	<input checked="" type="checkbox"/>	565	Secondary DOE	Civilian Radioactive Waste Management	Appendix G - Interaction of Actinides and Fission Products
<p>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></p>									
<p>Comment:</p>									
594	488	5/18/2000	9/30/2003	Tertiary DOE	<input checked="" type="checkbox"/>	565	Secondary DOE	Civilian Radioactive Waste Management	Appendix H - Actinide Speciation
<p>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></p>									
<p>Comment:</p>									
566	489	5/15/2000	3/24/2004	Secondary DOE	<input checked="" type="checkbox"/>	518	Primary DOE	Environmental Restoration and Waste Management	DOE/RAS Implementing Arrangement 2
<p>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></p>									
<p>Comment:</p>									
589	489	6/2/2000	9/30/2003	Tertiary DOE	<input checked="" type="checkbox"/>	566	Secondary DOE	Civilian Radioactive Waste Management	Appendix C - Contaminant Transport Processes in Unsaturated Rocks
<p>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></p>									
<p>Comment:</p>									
591	489	5/31/2000	9/30/2002	Tertiary DOE	<input checked="" type="checkbox"/>	566	Secondary DOE	Environmental Restoration and Waste Management	Appendix D - Annex A - Chara. Of Contaminated Territories
<p>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></p>									
<p>Comment:</p>									
592	489	5/31/2000	9/30/2002	Tertiary DOE	<input checked="" type="checkbox"/>	566	Secondary DOE	Environmental Restoration and Waste Management	Appendix D - Annex B - Uncertainty Assessment
<p>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></p>									
<p>Comment:</p>									
605	500	4/25/2001	4/25/2004	Secondary DOE	<input checked="" type="checkbox"/>	518	Primary DOE	Science and Technology	Appendix K w/ the Russian Academy of Sciences
<p>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></p>									
<p>Comment:</p>									

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ID	File#	Start Date	End Date	Agreement Type	Legally Binding	Parent ID	Parent Type	Subject	Brief Description
606	501	10/1/2000	10/1/2002	Secondary DOE	<input checked="" type="checkbox"/>	518	Primary DOE	Uranium Mass Transport Phenomena in Fractured Welded Tufts	Appendix D of Implementing Arrangement #1w/ Russian Academy of Sciences MOU

Title: *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 Tufts*

Comment:

52 302 3/18/1992 Statement of Intent None Information and/or Personnel Exchange Electric Power Technologies

Title: *U.S.-Russia Task Force on Cooperation in Electric Power Technologies Joint Statement of Intent*

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: *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*

Comment: DOE is the Executive Agent for the US. The agreement establishes the U.S.-Russian Joint Steering Committee on Plutonium Management

Country: *Senegal*

479 433 4/2/1998 Statement of Intent None Energy Research and Development SOI - Energy R&D

Title: *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*

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: *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*

Comment: The objective of this Agreement is to facilitate and establish cooperative activities by the Parties.

Country: *South Africa*

20 368 12/4/1997 12/4/2022 Intergovernmental None Nuclear Energy Peaceful Uses of Nuclear Energy

Title: *Agreement for Cooperation between the United States of America and the Republic of South Africa Concerning Peaceful Uses of Nuclear Energy*

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: *Terms of Reference on the Sustainable Energy Development Committee of the U.S. - South Africa Binational Commission*

Comment:

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ID	File#	Start Date	End Date	Agreement Type	Legally Binding	Parent ID	Parent Type	Subject	Brief Description
231	371	8/25/1995		Primary DOE	<input type="checkbox"/>		None	Energy Research and Development	Sustainable Development Resource Center
<p>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></p> <p>Comment: Cooperate on the creation of the Sustainable Development Resource center 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 Harkke) and USAID (Larry Byrne)</p>									
232	372	8/25/1995		Primary DOE	<input type="checkbox"/>		None	Energy Efficiency and Renewable Energy	Renewable and Energy Efficiency Technologies
<p>Title: <i>Memorandum of Understanding</i></p> <p>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).</p>									
233	374	8/25/1995		Primary DOE	<input type="checkbox"/>		None	Energy Efficiency and Renewable Energy	Electrification of Rural Clinics (Cape Town)
<p>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></p> <p>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.</p>									
234	381	12/5/1995	12/5/2000	Primary DOE	<input checked="" type="checkbox"/>		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	<input type="checkbox"/>		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	<input type="checkbox"/>		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	<input type="checkbox"/>		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>									

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ID	File#	Start Date	End Date	Agreement Type	Legally Binding	Parent ID	Parent Type	Subject	Brief Description
58	375	8/25/1995		Statement of Intent	<input type="checkbox"/>	None	None	Energy Efficiency and Renewable Energy	Renewable Energy (The Csr, 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 Csr, Republic of South Africa. Witnessed by Secretary O'Leary.</p>									
59	383	12/5/1995		Statement of Intent	<input type="checkbox"/>	None	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	<input type="checkbox"/>	None	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>									

Country: Spain

100 404 9/15/1997 9/15/2007 Primary DOE None Environmental Safety Health Research on Radiological Evaluations

Title: *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*

Comment:

307 404 9/15/1997 9/15/2007 Secondary DOE 100 Primary DOE Environmental Safety Health Annex 1

Title: *Project Annex 1 - cooperation on research in radiological evaluations*

Comment: Related to radioactive waste management.

5 171 12/12/1985 Primary DOE None Science and Technology Science & Technology

Title: *Agreement between the United States Department of Energy and the United States-Spain Joint Committee for Scientific and Technological Cooperation*

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: *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*

Comment:

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ID	File#	Start Date	End Date	Agreement Type	Legally Binding	Parent ID	Parent Type	Subject	Brief Description
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Country: Sweden

218 235 2/11/1988 Primary DOE None **Other - Classified* Subject and Umbrella contents are classified

Title: *Subject and Umbrella contents are classified*

Comment: Description not available in History

580 442 10/23/1995 10/23/2000 Primary DOE None Civilian Radioactive Waste Management Radioactive Waste Management

Title: *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*

Comment:

Country: Switzerland

225 418 12/23/1997 12/23/2002 Primary DOE None Civilian Radioactive Waste Management Radioactive Waste Management

Title: *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*

Comment: Auto extension for 5 yr. Periods.

Country: Thailand

227 400 3/20/1997 Primary DOE None Arms Control and Nonproliferation Lab-to-Lab arrangement

Title: *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*

Comment: Open ended.

538 400 3/6/2000 Secondary DOE 227 Primary DOE Arms Control and Nonproliferation Action Sheet I - Preliminary Safety Analysis Report

Title: *Action Sheet I between the Office of Atomic Energy for Peace of Thailand and the United States Department of Energy for Preliminary Safety Analysis Report Review*

Comment:

Country: Ukraine

507 454 4/26/1996 Intergovernmental None **Other - Radioactive Waste* Chernobyl Center

Title: *Memorandum of Understanding on Participation In and Support of the Activities of the International Chernobyl Center on Nuclear Safety, Radioactive Waste and Radiocology*

Comment:

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ID	File#	Start Date	End Date	Agreement Type	Legality Binding	Parent ID	Parent Type	Subject	Brief Description
508	455	7/22/1998	7/22/2003	Intergovernmental	<input checked="" type="checkbox"/>		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	<input checked="" type="checkbox"/>		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	<input type="checkbox"/>		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

319	159	5/14/1985	6/11/2000	Secondary DOE	<input type="checkbox"/>		Primary DOE	Information and/or Personnel Exchange	Energy-Related Information
Title: <i>Memorandum of Understanding between the Government of The United States of America as Represented by the Department of Energy and the Government of the United Kingdom of Great Britain and Northern Ireland as Represented by Department of Energy</i>									
Comment: Exchange of information as to the existence and availability of energy-related literature.									
41	364	7/25/1995		Statement of Intent	<input type="checkbox"/>		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	<input type="checkbox"/>		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	<input checked="" type="checkbox"/>		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									

Country: Venezuela

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ID	File#	Start Date	End Date	Agreement Type	Legally Binding	Parent ID	Parent Type	Subject	Brief Description
228	408	10/13/1997	10/13/2002	Primary DOE	<input checked="" type="checkbox"/>		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	10/13/2002	Secondary DOE	<input checked="" type="checkbox"/>	228	Primary DOE	Fossil Energy	Project Annex 1 - Crude Characterization
<p>Title: <i>Project Annex 1 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	10/13/2002	Secondary DOE	<input checked="" type="checkbox"/>	228	Primary DOE	Fossil Energy	Project Annex 4 - Enhanced Oil Recovery Thermal Processes
<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 Processes</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	10/13/2002	Secondary DOE	<input checked="" type="checkbox"/>	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	10/13/2002	Secondary DOE	<input checked="" type="checkbox"/>	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 Personnel</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 energy.</p>									
447	333	4/26/1994	10/13/2002	Secondary DOE	<input checked="" type="checkbox"/>	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>									
499	448	8/15/1995	10/13/2002	Secondary DOE	<input type="checkbox"/>	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>									

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ID	File#	Start Date	End Date	Agreement Type	Legally Binding	Parent ID	Parent Type	Subject	Brief Description
500	449	9/7/1995	10/13/2002	Secondary DOE	<input checked="" type="checkbox"/>	228	Primary DOE	Fossil Energy	Annex 17 - Drilling Technology

Title: *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*

Comment: Exchange information and training of personnel on drilling technologies for more efficient and cost-effective methods drilling.