Contract No.: DE-AC02-05CH11231 Section J Appendix J

ATTACHMENT J.10

APPENDIX J

TREATIES AND INTERNATIONAL AGREEMENTS/WAIVED INVENTIONS

Applicable to the Operation of Ernest Orlando Lawrence Berkeley National Laboratory

Contract No. DE-AC02-05CH11231

United States Department of Energy Agreement Listing

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

United States Department of Energy Agreement Listing

Expiration Date	DOE Office	Title
		water reactor-associated technologies.

Listing of Agreements Under the Aegis of: IAEA

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

Office of Policy and International Affairs

All In Force Bilateral Agreements

ID	File#	Start Date	End Date	Agreement Type	Legally Binding	Parent ID	Parent Type	Subject	Brief Description				
Cou	Country: <u>Argentina</u>												
61	407	8/1/1996	8/1/2001	Primary DOE			None	Energy Research and Development	Energy Technology Cooperation				
		Specific Arran Cooperation	igement betw	veen the Department of I	Energy of th	he Unite	d States of America a	nd the Public Works and Services Secretariat of the Arg	entine Republic in the Area of Energy Technology				
Con		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	10/16/199	10/16/200	Primary DOE			None	Arms Control and Nonproliferation	Nuclear Technologies				
		1 0	0	nt between the Departme Peaceful Uses of Nuclea		y of the	United States of Ame	rica and the National Atomic Energy Commission of the	Argentine Republic for Technical Exchange and				
Con		1	0	ement supporting Article advanced fuels.	IV of the N	PT. Exi	sting annexes cover we	ork in Molybdenum-99 production for LEU, boron neutro	n capture therapy, decontamination and				
475	431	4/13/1998	10/16/200	Secondary DOE		62	Primary DOE	Arms Control and Nonproliferation	Annex 1 - LEU Moly-99 production				
	Title:	Project Annex	: 1 Cooperat	tion in the Field of Moly	bdenum-99	Produc	tion from Low-Enrich	ed Uranium					
Con	nment:	In force as lon	g as the Impl	ementing Arrangement.	Action shee	ets are ui	nder development.						
521	431	2/8/1999	2/8/2003	Tertiary DOE		475	Secondary DOE	Nuclear Energy	Action Sheet 1 - Project Annex 1				
				Project Annex 1 for Co y of Chicago, as Operato				Production for Low-Enriched Uranium between the No.	ntional Atomic Energy Commission of he Argentine				
Cor	nment:												
476	431	4/13/1998	10/16/200	Intergovernmental		62	Primary DOE	Arms Control and Nonproliferation	Annex 2 - Boron Neutron Capture Therapy				
	Title:	Project Annex	: 2 Cooperat	tion in the Area of Boror	n Neutron C	apture	Therapy						
Con	nment:	In force as lon	g as the Impl	ementing Arrangement.	Expert visit	s are un	lerway.						
503	431	8/11/1998		Tertiary DOE		476	Secondary DOE	Arms Control and Nonproliferation	Action Sheet 1				
	Title:	Action Sheet 1	Purusant to	Project Annex 2 Coope	ration in th	e Field	of Boron Neutron Cap	pture Theraphy					
Con	nment:	Technical excl	nange visits.										

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ID	File#	Start Date	End Date	Agreement Type	Legally Binding	Parent ID	Parent Type	Subject	Brief Description
477	431	4/13/1998	10/16/200	Secondary DOE		62	Primary DOE	Arms Control and Nonproliferation	Annex 3 - D&D of Nuclear Facilities
	Title:	Project Annex	x 3 Cooperat	ion in the Field of Deco	ntaminatio	n and De	commissioning of N	uclear Facilities	
Сог	nment:	In force as lon	g as the Imple	ementing Arrangement.	Workshop	was succ	essfully held in fall of	f 98 at ANL.	
496	431	8/18/1998	10/16/200	Secondary DOE		62	Primary DOE	Arms Control and Nonproliferation	Annex 4 - Advanced Fuels
	Title:	Project Annex	x 4 Cooperat	ion in Field of Low Enr	iched Uran	ium Adv	unced Fuels		
Сог	nment:	Remains in for	rce as long as	the Implement Arranger	ment. Actic	on sheets	are under developme	nt.	
555 Develo	431 opment	2/8/1999	2/8/2003	Tertiary DOE		496	Secondary DOE	Arms Control and Nonproliferation	Action Sheet 1 Annex 4, Dart Code
	Title:			Project Annex 4 for Co of Chicago, as Operato				Uranium Advanced Fuels between the National Atomic Er	ergy Commission of the Argentine Republic
Co	nment:								
63	331	4/18/1994	4/18/2004	Primary DOE			None	Arms Control and Nonproliferation	International Safeguards Applications
	Title:							gy Commission of Argentina Concerning Research and D ice Technology for International Safeguards Applications	evelopment in Nuclear Material Control,
Сог	nment:			lopment, testing, and eva urveillance technologies				ocedures in order to improve nuclear material control, accou	ntancy, verification, physical protection and
64	387	5/29/1996	5/29/2006	Primary DOE			None	Environmental Restoration and Waste Management	Radioactive and Mixed Waste Management
	Title:			t between the Departme Radioactive and Mixed				erica and the National Atomic Energy Commission of the .	Argentine Republic for Technical Exchange and
Сог	nment:			d waste management act al in geologic formations		ch areas a	as: preparation and pa	ackaging; decontamination and decommissioning; surface an	nd subsurface storage; characterization of
Cou	ntry	: <u>Australi</u>	<u>a</u>						
509	456	9/15/1998	9/14/2008	Primary DOE			None	Arms Control and Nonproliferation	Safeguards Arrangement

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

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ID	File#	Start Date	End Date	Agreement Type	Legally Binding	Parent ID	Parent Type	Subject	Brief Description
65	337	9/18/1994		Primary DOE		1	None	Energy Efficiency and Renewable Energy	EE/Conservation and Climate Change
	Title:	Memorandum	of Understa	nding on Cooperation i	n Environn	iental Aspe	ects of Energy Polic	cy and the Protection of Global Climate	
Con	nment:	Cooperate in a	reas of suffic	ient growth of energy su	pplies; ener	rgy efficien	cy and conservation	n measures and protection of the biosphere (climate change)	
Cou	ntry:	<u>Banglad</u>	<u>esh</u>						
501	450	12/15/199		Statement of Intent		1	None	Energy Research and Development	SOI in Enregy Cooperation
	Title:	Joint Statemer	nt of Coopera	ation in Energy					
Con	nment:								
514	460	2/11/1999	2/11/2004	Primary DOE		1	None	Information and/or Personnel Exchange	Exchange of Energy Information
Fraha		Arrangement	between the	Department of Energy o	of the Unite	d States of	America and the M	Ainistry of Energy and Mineral Resources, Government of	the People's Republic of Bangladesh for
Excha	0	of Energy Info	ormation						
Con	nment:	EIA will work	with an agen	cy designated by MEOM	/IR to estab	lish a reaso	nably balanced exc	hange of energy information.	
Cou	ntry:	<u>Botswan</u>	a						
600	495	12/15/200		Statement of Intent		r	None	Fossil Energy	Cooperation in the Field of Fossil Energy
000			ntent Betwee		nergy of th	-		ad The Ministry of Minerals, Energy and Water Afairs of the	
		Field of Fossil	Energy Tech	hnology	0,000		0		
Con	nment:								
Cou	ntry:	<u>Brazil</u>							
26	391	9/30/1996		Statement of Intent		1	None	Fossil Energy	Clean Coal Technologies
								of the United States of America and the State of Rio Grand ines and Energy of the Federal Republic of Brazil	e do Sul and the State of Santa Catarina, and the
Con		Intention to co Energy of Braz			io Grande d	o Sul, the S	State of Santa Catar	ina, The Sindicato National da Industria da Extracao do Car	vao, Electrobras, and the Ministry of Mines and
655	550	6/20/2003	6/20/2008	Primary DOE		1	None	Science and Technology	Cooperation in Nuclear Energy
		Agreement ber Energy	tween the De	partment of Energy of t	he United S	States of A	nerica nd the Mini	stry of Science and Technology of the Federative Republic	of Brazil Concerning Cooperation in Nuclear
Con	nment:	2							
201									

ID	File#	Start Date	End Date	Agreement Type	Legally Binding	Parent ID	Parent Type	Subject	Brief Description
75	412	10/14/199	10/14/200	Primary DOE			None	Energy Research and Development	Energy Technology
	Title:	Implementing	Arrangemen	it between the United St	ates of Ame	erica and	the Federative Repu	ublic of Brazil for Cooperation in the Area of Energy Tech	hnology
Con	nment:	Umbrella Agr	eement						
279	412	10/14/199	10/14/200	Secondary DOE		75	Primary DOE	Fossil Energy	Annex 1 - Coal and Power Systems
	Title:	Annex I to the Power System:		ng Arrangement betwee	n the Unite	d States	of America and the F	Federative Republic of Brazil for Cooperation in the Area	of Energy Technology in the Field of Coal and
Con	nment:	Exchange exp	erience and v	iews on clean coal techn	ologies, adv	anced po	ower systems, advance	ed coal preparation, and environmental monitoring technol	ogies and standards.
280	412	10/14/199	10/14/200	Secondary DOE		75	Primary DOE	Energy Efficiency and Renewable Energy	Annex 2 - Renewable Energy
	Title:	Annex II to th Energy	he Implement	ing Arrangement betwee	en the Unit	ed States	of America and the	Federative Republic of Brazil for Cooperation in the Area	a of Energy Technology in the Field of Renewable
Con	nment:	Collaboration	on renewable	es resource assessment, in	ntegration ir	n electric	utility, policy analysi	is, and identification of opportunities for renewable energy	in Brazil.
281	412	10/14/199	10/14/200	Secondary DOE		75	Primary DOE	Energy Efficiency and Renewable Energy	Annex 3- Energy Efficiency
	Title:	Annex III - to Efficiency	the Impleme	enting Arrangement betw	ween the Ur	ited Sta	tes of America and th	e Federative Republic of Brazil for Cooperation in the A	rea of Energy Technology in the Field of Energy
Con	nment:	Collaboration	to increase er	nergy, efficiency, promot	te global en	vironmer	ntal protection, and sti	imulate the market in Brazil for energy efficiency goods ar	d services.
76	332	4/18/1994	4/18/2004	Primary DOE			None	Arms Control and Nonproliferation	International Safeguards Applications
	Title:							gency for Accounting and Control of Nuclear Materials r Technologies for International Safeguards Applications	
Con	nment:								
77	376	9/19/1995	9/19/2000	Primary DOE			None	Arms Control and Nonproliferation	International Safeguards Applications
	Title:							rgy Commission of Brazil Concerning Research and Dev villance Technologies for International Safeguards Appli	
Con	nment:								
651 Nation	546 al	9/17/2001	9/17/2006	Secondary DOE		77	Primary DOE	Arms Control and Nonproliferation	Extension - Agreement bet. DOE and the
									Nuclear Energy Commission
	Title:							s and the National Nuclear Energy Commission of Brazi	

Nuclear Material Control, Accountancy, Verification, Physical Protection, and Advanced Containment and Surveillance Technologies for International Safeguards Applications

Comment: 5- year extension

Country: <u>Canada</u>

				••••••					
ID	File#	Start Date	End Date	Agreement Type	Legally Binding	Parent ID	Parent Type	Subject	Brief Description
28	363	7/21/1995		Statement of Intent		21	Broad	Energy Efficiency and Renewable Energy	Building Energy Simulation Tools
	Title:	Statement of I	Intent betwee	n the United States Dep	artment of	Energy a	and the Department of	f Natural Resources of Canada on Building Energy Simu	lation Tools
Con	ment:	Collaborate in	building ener	rgy simulation R&D and	informatio	n dissem	ination.		
614 Natural	509	10/22/200	10/22/200	Primary DOE			None	Energy Efficiency and Renewable Energy	Arrangement between DOE and Dept. of
									Resources Canada
		Implementing and Communi			ent of Energ	gy of the	United States of Ame	erica and the Department of Natural Resrouces Canada fo	or Cooperation in the areas of Microgeneration
Con	iment:								
632	527	5/10/2000	5/10/2005	Primary DOE			None	Science and Technology	Cooperation in the area of Bioenergy
	Title:	Implementing	Arrangemen	nt between the United St	ates Depart	tment of	Energy and the Depa	urtment of Natural Resources of Canada for Cooperation	in the area of Bioenergy
Con	iment:								
656	551	6/17/2003	6/17/2008	Primary DOE			None	Nuclear Energy	Nuclear Energy Research
		Implementing area of Nuclea			ates Depart	tment of	Energy and the Depa	artment of Natural Resources of Canada and Atomic Ener	gy of Canada Limited for Collaboration in the
Con	iment:	Foreign Party	for Atomic E	nergy of Canada Limited	l signed this	s agreem	ent also on June 17, 2	003.	
81	425	3/18/1998	3/18/2008	Primary DOE			None	Energy Research and Development	Energy R&D
		Memorandun Development	ı of Understa	nding between the Depa	rtment of 1	Energy oj	f the United States of	America and the Department of Natural Resources of Ca	nada on Collaboration in Energy Research and
Con	ment:	Establish wide	er areas of coo	operation for mutual ben	efit				
524 Arrang	469 ement	2/1/2000	2/1/2005	Secondary DOE		81	Primary DOE	Fossil Energy	DOE/NRCan Fuel Cells Implementing
	Title:	Implementing	Arrangemen	it between the Departme	ent of Energ	gy of the	United States of Ame	erica and the Department of Natural resources Canada fo	r Cooperation in the area of Fuel Cells
Con	ment:	Automatic Rea	newal after 5	years with written agree	ment of the	participa	ints.		
525	470	2/1/2000	2/1/2005	Secondary DOE		81	Primary DOE	Fossil Energy	DOE/NRCan Fossil Fuels Implementing
	Title:	Implementing	Arrangemen	nt between Department o	of Energy o	f the Un	ited States of America	a and the Department of Natural Resources Canada for C	ooperation in the area of Fossil Fuels
Con	ment:	Automatic ren	ewal for 5 ye	ars with written agreeme	nt of the pa	rticipant	5.		

ID	File#	Start Date	End Date	Agreement Type	Legally Binding	Parent ID	Parent Type	Subject	Brief Description
646	541	9/11/2002	9/11/2007	Tertiary DOE		525	Secondary DOE	Fossil Energy	Project Annex I - Weyburn CO2 Sequestration
			•	CO2 Sequestration Properties of Logical CO2 Sequestration Properties of Logical CO2 Sequestration in the Area of Logical CO2 Sequestratin the Area of Logical CO2 Sequestration in the Area of Logical CO			ementing Arrangeme	nt Between the Department of Energy of the United	States of America and the Department of Natural
Com	ment:								
27	341	11/18/199		Statement of Intent		21	Broad	Energy Efficiency and Renewable Energy	Biennial Biomass Conf. of the Americas
	Title:	Statement of I	ntent betwee	n the United States Dep	artment of I	Energy a	nd the Department of	f Mines and Resources on Biennial Biomass Conference	ence of Americas
Com	ment:	Collaborate in	a biennial co	nference to present the l	atest results	in bioma	ass energy research and	d development.	
Cou	ntry:	: <u>Chile</u>							
35	352	3/7/1995		Statement of Intent			None	Energy Efficiency and Renewable Energy	Control Emissions of Greenhouse Gases
				tainable Development (National Energy Commi			nt Implementation of	Measures to Control Emissions of Greenhouse Gase	es Between the Department of Energy of the United
Com	ment:			opment of joint impleme ion and training program	1 5	jects in o	rder to encourage: ma	rket deployment of greenhouse gas-reducing technolo	ogies, including energy efficiency and renewable
474	430	4/18/1998	4/12/2000	Statement of Intent			None	Energy Efficiency and Renewable Energy	Natural Gas-Powered Bus Pilot Project
	Title:	Statement of I	ntent Concer	rning the Natural Gas-H	Powered Bus	s Pilot Pi	roject in the Metropol	itan Region of Chile	
Com	ment:	Signed in Sant	iago, Chile, d	uring the SOAII					
Cou	ntry:	: <u>China</u>							
1	427	1/31/1979	4/30/2001	Intergovernmental			None	Science and Technology	Gov't to Gov't S&T
	Title:	Agreement be	tween the Go	vernment of United Sta	tes of Amer	ica and t	the Government of Pe	ople's Republic of China on Cooperation in Science	and Technology
Com	ment:	Need copy of a	agreement						
238 Fusion	123	5/11/1983	4/30/2001	Primary DOE		1	Intergovernmental	Fusion Energy	Protocol on Nuclear Physics and Magnetic
				rtment of Energy of the gnetic Fusion Research		tes of Am	erica and the Ministr	ry of Science and Technology of the People's Republ	lic of China on Cooperation in the Fields of Nuclear
Com	ment:	Cooperate in p	romoting eac	h other's program in Nu	clear Physic	s and Co	ntrolled Magnetic Fus	ion. Co-terminates with umbrella S&T agreement.	
290	223	9/28/1987	4/30/2001	Secondary DOE		239	Primary DOE	Fossil Energy	Annex 2 - Mine Safety and Health
In dass (Annex II to th	e Protocol or	n Cooperation in the Fi	eld of Fossi	l Energy	Research and Develo	pment between the Department of Energy of the Un	ited States of America and the Ministry of Coal
Industr	y	of the People'	s Republic of	China in the Area of M	line Safety	and Heal	lth		
Com	ment:	Co-terminates	with the Prot	ocol					

		i ee Dinaec		ements					
ID	File#	Start Date	End Date	Agreement Type	Legally Binding	Parent ID	Parent Type	Subject	Brief Description
291	217	8/19/1987	4/30/2001	Secondary DOE		239	Primary DOE	Energy Research and Development	Annex 3 - Atmospheric Trace Gasses
	Title:	Annex III to a	the protocol o	on fossil energy R&D on	Cooperation	on in the	e field of atmospheric	trace gases	
Cor	mment:	Co-terminates	with the Prot	ocol					
292	226	10/13/198	4/30/2001	Secondary DOE		239	Primary DOE	Fossil Energy	Annex 4 - Coal Preparation & Waste Stream Utilization
		Annex IV to p and waste stre		1 5 55	sil energy l	R&D bet	ween U.S. Departmer	tt of Energy & Ministry of Coal Industry of the People's R	public of China in the area of coal preparation
Cor	nment:	TASKS PLA	NNED WERI	E COMPLETED IN 10/9	0. DISCU	SSIONS	ON POSSIBLE FUR	THER COOPERATION IN COAL PREP. Co-terminates w	ith the Protocol
293	227	10/13/198	4/30/2001	Secondary DOE		239	Primary DOE	Fossil Energy	Annex 5 - Atmospheric Fluidized Bed
Comb	ustion								Info Exchange
				operation in field of foss stion information excha		&D betw	veen U.S. Department	t of Energy - Ministry of Coal Industry of the People's Rep	ublic of China in the area of atmospheric
Cor	nment:	EXCHANGE	OF REPORT	S AND DATA. Co-term	inates with	Protocol			
296	349	2/23/1995	2/23/2000	Secondary DOE		239	Primary DOE	Fossil Energy	Annex 11 - Coal Bed Methane Recovery and Utilization
				or Cooperation in the F China for Cooperation				lopment between the Department Energy of the United Sta y and Utilization	tes of America and the Ministry of Coal Industry
Сог				economic cooperation in al gas energy resources.	coal bed m	nethane r	ecovery and utilization	n technology in order to make positive contributions toward	improving recovery efficiency and utilization
297	348	2/23/1995	2/23/2000	Secondary DOE		239	Primary DOE	Fossil Energy	Annex 12 - Regional Climate Research
								elopment between the Department Energy of the United Sta h with the China Meteorological Administration	ttes of America and the Ministry of Coal Industry
Cor	mment:	Establish a pro	ogram of joint	t R&D and information e	exchange to	docume	nt regional climate and	d climate change, to predict regional climate and climate cha	nge and to identify regional impacts of climate
485	439	11/14/199	11/14/200	Secondary DOE		239	Primary DOE	Fossil Energy	Annex 13 - Fossil Fuel Utilization
				l for Cooperation in the public of China in the A				velopment between the Department of Energy of the United tion of Chemicals	l States of America and the Ministry of Coal
Cor	nment:	Co-terminiate	s with Protoco	ol					
298 Indust	413 ry	11/14/199	11/14/200	Secondary DOE		239	Primary DOE	Fossil Energy	Annex 14 - Bilateral Consultations on Coal
		Annex XIV to	the Protocol	for Cooperation in the	field of Fos	ssil Ener	gy Research & Develo	opment between the Department of Energy of the United S	tates of America and the Ministry of Coal
Indust	try	of the People	's Republic of	f China on Bilateral Cor	sultations	and Exc.	hanges on Coal Indu	stry Development and Information	
Сог	mment:	Co-terminates	with the Prot	ocol			-		

ID	File#	Start Date	End Date	Agreement Type	Legally Binding	Parent ID	Parent Type	Subject	Brief Description
618 and	513	12/7/2000	12/7/2005	Secondary DOE		239	Primary DOE	Fossil Energy	Annex III - for Cooperation in the areas of Oil
				or Cooperation in the F of the People's Republic				oment and Utilization between the Department of Energy 6 Oil and Gas	of the United States of America and The Ministry
Con	nment:								
240	351	2/23/1995	2/22/2005	Primary DOE		1	Intergovernmental	Energy Efficiency and Renewable Energy	Protocol for Energy Efficiency and Renewable
				the Fields of Energy E Technology of the Peop				ogy Development and Utilization between the Departmen	it of Energy of the United States of America and
Con				nergy consultations by f id technologies.	orming a C	hinese-A	merican Ministerial W	orking Group to enhance the understanding of energy issu	es and promote the exchange of information on
478	432	6/27/1995	6/27/2000	Secondary DOE		240	Primary DOE	Energy Efficiency and Renewable Energy	Annex 1 - 100 Counties Renewable Energy
		Technology of	the People's	Republic of China for L	eveloping	Coopera	tive Activities in the A	nergy between the Department of Energy of the United S rea of Renewable Energy Under the Hundred Counties I f Agriculture of the People's Republic of China	
Con	nment:	Remains in for	ce for five ye	ars or until termination of	of the Proto	col, whic	ehever occurs first		
299	420	10/25/199	10/25/200	Secondary DOE		240	Primary DOE	Energy Efficiency and Renewable Energy	Annex 2 - Wind Energy Development
		of China ANN	EX II under i		ation in the	Fields a	of Energy Efficiency a	nent of Energy of the United States of America and the M nd Renewable Energy Technology Development and Uti Republic of China	
Con	nment:	Remains in for	ce for five ye	ars or until termination of	of the Proto	col, whic	ehever occurs first.		
300	422	10/25/199	10/25/200	Secondary DOE		240	Primary DOE	Energy Efficiency and Renewable Energy	Annex 3 - Energy Efficiency
C	Title:	Annex III to the	he Protocol f	or Cooperation in the F	ields of End	ergy Effi	ciency and Renewable	Energy Technology Development and utilization betwee	n the Department of Energy of the United States
of				nce and Technology Co e People's Republic of (na for Cooperation Between the Department of Energy o	f the United States of America and the State
Con	nment:	Remains in for	ce for five ye	ars or until termination of	of the Proto	col, whic	chever occurs first		
301 Develo	421 opment	10/25/199	10/25/200	Secondary DOE		240	Primary DOE	Energy Efficiency and Renewable Energy	Annex 4 - Renewable Energy Business
	Title:	Renewable En People's Reput		s Development ANNEX	IV Coopei	ative Ac	tivities between the De	partment of Energy of the United States of America and	the State Economic and Trade Commission of the
Con	nment:	Remains in for	rce for five ye	ars or until termination of	of the Proto	col, whic	chever occurs first		
302	414	11/18/199	11/18/200	Secondary DOE		240	Primary DOE	Energy Efficiency and Renewable Energy	Annex 5 - Electric Vehicle Development
								Technology of the People's Republic of China for Coope lybrid-Electric Vehicle Development	ration in the Field of Energy Efficiency and
Con	nment:	Remains in for	ce for five ye	ars or until termination of	of the Proto	col, whic	ehever occurs first.		

ID	File#	Start Date	End Date	Agreement Type	Legally Binding	Parent ID	Parent Type	Subject	Brief Description
303	415	11/18/199	11/18/200	Secondary DOE		240	Primary DOE	Energy Efficiency and Renewable Energy	Annex 6 - Geothermal Production and Use
Unitea								of the United States of America and the Ministry of Scien renewable Energy Technology Development and Utilization	
		States of Ame	rica and the S	State Science and Techn	ology Com	mission	of the People's Reput	blic of China	
Cor	nment:	Remains in for	rce for five ye	ears or until termination of	of the Proto	col, which	chever occurs first.		
490	443	7/9/1998		Secondary DOE		240	Primary DOE	Energy Efficiency and Renewable Energy	Design Criteria for Energy Efficient Building
	Title:	Statement of V	Vork between	the Department of Ene	ergy of the	United S	tates of America and	the Ministry of Science and Technology of the People's R	epublic of China
Сог	nment:								
563 Planni	486 ng	5/11/2000	5/11/2005	Secondary DOE		240	Primary DOE	Energy Efficiency and Renewable Energy	Annex 7 - Renewable Energy Policy and
		Renewable En People's Reput			I Cooperati	ive Activ	ities between Departn	nent of Energy of the United States of America and the St	ate Development Planning Commission of the
Cor	nment:	Remains in for	rce for five ye	ears or until termination of	of the Proto	col, which	chever occurs first.		
616	511	7/18/2001		Secondary DOE		240	Primary DOE	Energy Efficiency and Renewable Energy	Design Criteria for Energy Efficient Building
	Title:	Amendment to	o The Statem	ent of Work of July 9, 1	998 betwee	n The D	epartment of Energy	of the United States of America and The Ministry of Scien	ice and Technology of the People's Republic of
Сог	nment:								
621 China	516	2/12/2002	2/12/2007	Secondary DOE		240	Primary DOE	Energy Efficiency and Renewable Energy	Annex II - The State Power Corporation of
								iciency and Renewable Energy Technology Development (and the State Power Corporation of China	and Utilization for Cooperative Activities in Wind
Сог	nment:								
622	517	2/12/2002	2/12/2007	Secondary DOE		240	Primary DOE	Energy Efficiency and Renewable Energy	Annex III - State Planning Commission
		0						f Energy Efficiency and Renewable Energy Technology I America and the State Planning Commission of the People	1 5 1
Сог	nment:								
623 Comm	518 ission	2/12/2002	2/12/2007	Secondary DOE		240	Primary DOE	Energy Efficiency and Renewable Energy	Annex IV - State Economic and Trade
		0						f Energy Efficiency and Renewable Energy Technology L If the United States of America and the State Economic ar	1 0 1
Сог	nment:								
241	38	1/31/1979	4/30/2001	Primary DOE		1	Intergovernmental	High Energy Physics	High Energy Physics
	Title:	Implementing Physics.	Accord betw	een the U.S. Departmen	t of Energy	y and the	e State Scientific and	Technological Commission of the People's Republic of C	hina on Cooperation in the Field of High Energy
Cor	nment:	Co-Terminates	s with the S&	T Agreement					
Thur	sday, Ju	ly 17, 2003							Page 9 of 42

ID	File#	Start Date	End Date	Agreement Type	Legally Binding	Parent ID	Parent Type	Subject	Brief Description
242	311	11/4/1992	11/4/2002	Primary DOE		1	Intergovernmental	High Energy Physics	Superconducting Super Collider
	Title:	Implementing	Accord betw	een the U.S. Departmen	t of Energy	v and the	Chinese Academy of	Sciences for a Program of Collaboration on the Supercon	ducting Super Collider
Con	iment:								
522	467	1/12/2000	1/12/2005	Primary DOE		1	Intergovernmental	Information and/or Personnel Exchange	Exchange of Energy Information
		Protocol for C Republic of Cl		Concerning the Exchang	e of Energ	y Inform	ation between the De	partment of Energy of the United States of America and th	e National Bureau of Statistics of the People's
Con	iment:								
531	476	4/20/2000	4/30/2001	Primary DOE		1	Intergovernmental	Fossil Energy	Fossil Energy Protocol
				n the Field of Fossil Ene Republic of China	ergy Techn	ology De	evelopment and Utiliza	ution between the Department of Energy of the United State	es of America and the Ministry of Science and
Con	iment:	Remains in for	rce for 5 years	s from date of signature of	or as long a	s the Un	brella Agreement (US	-China S&T) remains in force, whichever is shorter.	
649 Fuels	544	11/19/200	11/19/200	Secondary DOE		531	Primary DOE	Fossil Energy	Annex II - Cooperation in the area of Clean
				n Cooperation in the Fie of the People's Republic				ment and Utilization between The Department of Energy oj f Clean Fuels	f the United States of America and The Ministry
Con	nment:								
3	410	10/29/199		Intergovernmental			None	*Other - Energy and Environment	Energy and Environment Cooperation Initiative
	Title:	United States	of American	and People's Republic o	f China Er	nergy an	d Environment Coope	eration Initiative	
Con	nment:								
31	347	2/23/1995		Statement of Intent			None	Nuclear Energy	Research Reactor Fuel
	Title:	Statement of I	ntent betwee	n the Department of Ene	ergy of the	United S	States of America and	the China Atomic Energy Authority of the People's Repub	lic of China on Research Reactor Fuel
Con	iment:	Exchange info	rmation and v	views on opportunities fo	r the conve	ersion of	research reactors to the	e use of low enriched uranium.	
493	445	6/29/1998		Primary DOE			None	Nuclear Energy	Nuclear Technologies Agreement
		Agreement be Peaceful Uses			he United S	States of	America and the State	e Development Planning Commission of the People's Repu	blic of China on Cooperation Concerning
Con	iment:	Subject to the	Gov't to Gov'	t Peaceful Uses of Nucle	ar Energy A	Agreeme	nt signed July 23, 198	5.	
494	445	6/29/1998	6/29/2003	Secondary DOE		493	Primary DOE	Nuclear Energy	Annex 1 - IPR
	Title:	Annex I- Inte	llectual Prop	erty					
Con	ıment:	Attached to or	iginal agreem	ient.					

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ID	File#	Start Date	End Date	Agreement Type	Legally Binding	Parent ID	Parent Type	Subject	Brief Description
620	515	5/11/2000	5/11/2005	Secondary DOE		493	Primary DOE	Energy Efficiency and Renewable Energy	Annex VII
		Renewable En People's Repu			l Cooperati	ive Activi	ties Between the Dep	partment of Energy of the United States of America and	l the State Development Planning Commission of the
Con	nment:								
554 Techno	483 ologies	3/29/1999		Statement of Intent			None	*Other - Energy and Environment	MOU on Clean Energy Projects and
				nding Among The State United States Regarding				the People's Republic of China, China Development Ba and Technologies	ank, The United States Department of Energy, and
Con	nment:								
642	537	9/10/2002		Statement of Intent			None	Science and Technology	SOI - Clean Energy Technologies
6		Statement of I	ntent betwee	n the Department of En	ergy of the	United S	tates of America and	t the Municipality of Beijing of the People's Republic of	f China Concerning Clean Energy Technologies
Con	nment:								
84	345	2/23/1995	CT 1 /	Primary DOE		F	None	*Other - Bilateral Energy Consultations	Bilateral Energy Consultations
		<i>Memoranaum</i> <i>Consultations</i>	of Understa	naing between the Depa	rtment of E	energy oj	the United States of	America and the State Planning Commission of the Particle Commission of the Particle	eopie's Republic of China on Buateral Energy
Con				energy consultations by f nd technologies.	orming a C	hinese-A	merican Ministerial V	Working Group to enhance the understanding of energy	issues and promote the exchange of information on
Cou	ntry:	<u>Costa Ri</u>	<u>ca</u>						
36	401	5/9/1997	5/9/2002	Statement of Intent			None	Energy Efficiency and Renewable Energy	Electric Transport
		Statement of I	ntent by the	Ministry of Environmen	t and Ener	gy of Cos	sta Rica and the Dep	artment of Energy of the United States of America for	Cooperation in the Field of Electric Transport
Con	nment:								
504	451			Primary DOE			None	Arms Control and Nonproliferation	Sister Lab Arrangement
Con		Arrangement ACDA led sist		ion Exchange and Coop	eration in t	the Area	of Peaceful Uses of I	Nuclear Energy between Argonne National Laboratory	v and Atomic Energy Commission of Costa Rica
Con	iment:	ACDA icu sisi	ci iau.						
Cou	ntry:	Czech R	<u>epublic</u>						
4	300	10/22/199	10/22/200	Intergovernmental			None	Science and Technology	Science & Technology
	Title:	Agreement be	tween the Go	wernment of the Czech	ind Slovak	Federal	Republic and the Go	vernment of the United States of America for Scientific	c and Technological Cooperation
Con								the two countries in the areas of basic science, environm rdization, S&T policy and management.	nental protection, medical sciences and health,
Thurs	day, Ju	ly 17, 2003							Page 11 of 42

ID	File#	Start # Date	End Date	Agreement Type	Legally Binding	Parent ID	Parent Type	Subject	Brief Description
Cou	ntry	: <u>Egypt</u>							
517	463	7/1/1999	7/1/2004	Primary DOE			None	Energy Research and Development	Energy Technology Agreement
	Title	: Implementing Technology	Arrangemer	nt between the Departn	ent of Ener	gy of the	United States of Ame	erica and the Ministry of Electricity and Energy of the Ara	b Republic of Egypt for Cooperation in Energy
Сог	nment	:							
527	472	2/23/2000	2/23/2005	Secondary DOE		517	Primary DOE	Energy Efficiency and Renewable Energy	Annex 1 - Renewable Energy
	Title	: Annex I to the Renewable En		ng Arrangement betwe	en the Depa	rtment oj	f Energy of the United	d States of America and the Ministry of Electricity and En	ergy of the Arab Republic of Egypt in the Field of
Сог	nment	:							
528	473	2/23/2000	2/23/2005	Secondary DOE		517	Primary DOE	Energy Efficiency and Renewable Energy	Annex 2 - Fuel Cells
	Title			ing Arrangement betw hnology in the Field of		artment o	of Energy of the Unite	ed States of America and the Ministry of Electricity and E	nergy of the Arab Republic of Egypt for
Сог	nment		· 2	interest of	1 100 00005				
Cou	ntry	: <u>Estonia</u>							
526	471	2/4/2000	2/4/2003	Primary DOE			None	Fossil Energy	Oil Shale Research and Utilization
Shale	Title	: Agreement be	tween the De	partment of Energy of	the United S	States of 2	America and the Min	istry of Economic Affairs of the Republic of Estonia for S	cientific and Technology Cooperation on Oil
~		Research and	-						
				ating Committee to mar	nage cooper	ative wor	rk under the agreemen		
99 Site	353	3/13/1995	3/13/2000	Primary DOE			None	Environmental Restoration and Waste Management	Technical Cooperation in Clean-up Paldiski
	Title	: Memorandum Training Site	n of Understa	nding between the Dep	partment of 1	Energy oj	f the United States an	nd the Ministry of Economy of Estonia for Technical Coop	eration in the Clean-up of the Paldiski Nuclear
Сог	nment	Cooperate and training site at		5	vironmental 1	restoration	n and in the safe and e	effective management of hazardous wastes and the clean-up	of the environment at and around the nuclear
Cou	ntry	: <u>Europea</u>	n Atomi	c Energy Comn	nunity (I	EURA	<u>TOM)</u>		
568	490	1/6/1995	1/6/2005	Primary DOE			None	International Safeguards	EURATOM Safeguards
	Title	0		ropean Atomic Energy arch and Development	[,] Community	y Represe	ented by the Commiss	sion of the European Communities and the United States 1	Department of Energy in the field of Nuclear
Cor	nment	: Auto renewal	for five years	periods.					
Thur	sday, J	uly 17, 2003							Page 12 of 42

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ID	File#	Start Date	End Date	Agreement Type	Legally Binding	Parent ID	Parent Type	Subject	Brief Description
576	490	2/18/1999	2/18/2001	Secondary DOE		568	Primary DOE	International Safeguards	Action Sheet 10 - Tank Analysis
Comp	uter						-	ic Energy Community represented by The Commission o	f European Communities (EURATOM) for
		Code Develop	ment for Aut	omated Acquisition and	Real-Time	Analysis	of Volume Measuren	nent Data	
Сог	nment:								
612 DOE	507	5/14/2001	5/14/2006	Primary DOE			None	Fusion Energy	Fusion Agreement between EURATOM and
		0 0		n between the European sion Energy Research a		0.	nmunity Represented	by the Commission of the European Communities and the	he Department of Energy of the United States of
Сог	nment:								
Cou	ntry:	<u>Europea</u>	un Union	<u>.</u>					
648	543	5/14/2001	5/14/2006	Primary DOE			None	Science and Technology	Non-Nuclear Energy S&T Agreement
	Title:	Implementing	g Agreement	between the Department	t of Energy	of the U	nited States of Americ	a and the European Commission for Non-Nuclear Energ	gy Scientific and Technological Co-operation
Сог	nment:								
Cou	ntry:	<u>Finland</u>							
116	393	1/17/1997	1/17/2001	Primary DOE			None	Energy Research and Development	Energy R&D
	Title:	Implementing	g Arrangemei	nt between the Departm	ent of Energ	gy of the	United States of Ame	rica and the Ministry of Trade and Industry of Finland f	for Cooperation in Energy Research and
Сог	nment:	Auto renewal	for 5 years						
Cou	ntry:	<u>France</u>							
39	132	10/27/198		Secondary DOE		121	Primary DOE	Environmental Restoration and Waste Management	Radioactive Waste ManagementWest Valley
	Title:	Statement of	Intent betwee	en the United States Dep	artment of	Energy a	nd the French Comm	issariat a l'Energie Atomique on the West Valley Demor	nstration Project
Сог				eatment of radioactive w est Valley, New York.	aste and de	contamin	ation and decommissi	oning activities throughout the course of the DOE Demon	stration Project at the Western New York Nuclear
40	185	6/20/1986		Secondary DOE		121	Primary DOE	Civilian Radioactive Waste Management	Low-Level Radioactive Waste
	Title:	Statement of L	Intent betwee	n the United States Dep	artment of	Energy a	nd the French Comm	nissariat a l'Energie Atomique in the Field of Low-Level	Radioactive Waste
Сог	nment:	Confirm inten	it to expand ra	adioactive waste manage	ment coope	ration in	the area of surface and	d subsurface disposal and storage of low-level radioactive	waste, as well as defined activities.

ID	File#	Start Date	End Date	Agreement Type	Legally Binding	Parent ID	Parent Type	Subject	Brief Description
128	416	12/29/199	12/29/200	Primary DOE			None	Arms Control and Nonproliferation	Material Control and Accounting
	Title:	Agreement be Control and A			he United S	States and	l the Commissariate a	l'Eenergie Atomique of France Concerning Rese	arch and Development in the Field of Nuclear Material
Сог	nment:	Cooperate on	research, deve	elopment, testing and eva	aluation in t	the area c	f nuclear material con	trol and accounting measures.	
577	416	1/20/2000	1/20/2001	Secondary DOE		128	Primary DOE	Arms Control and Nonproliferation	Action Sheet 2 - Isotopic Analysis Evaluation Using the PC/FRAM Physics Isotopics
Softwa					. –				
	Title:	Action Sheet I Isotopics Soft		ited States Department	of Energy ((DOE) ar	nd The Commissariat	a l'Energie Atomique (CNEA) of France for Isoto	pic Analysis Evaluation Using the PC/FRAM Physics
Со	nment:								
129	417	12/29/199	12/29/200	Primary DOE			None	Arms Control and Nonproliferation	Physical Protection of Nuclear Materials
of	Title:	Agreement be	tween the De	partment of Energy of th	he United S	States and	the Commissariat a	l'Energie Atomique of France Concerning Resear	ch and Development in the Field of Physical Protection
IJ		Nuclear Mater	rials and Fac	ilities					
Сог	nment:	Improve the U	S & France n	uclear materials and faci	lities physi	cal prote	ction procedures		
567 T	417	3/14/2000	3/14/2002	Secondary DOE		129	Primary DOE	International Safeguards	Action Sheet 3 - Nuclear Materials
Transp	ortation	1							Security
	Title:	Action Sheet	No. 3 The Un	ited States Department	of Energy ((DOE) ar	nd the Commissariat a	l'Energie Atomique of France (CEA) for Nuclear	Transportation Security
Со	nment:								
130	357	4/26/1995		Primary DOE			None	High Energy Physics	Accelerator Driven Technology
~		-						for Cooperation in Research Development and Ap	plication for Accelerators driven Technology
Сог	nment:	Conduct coop	erative progra	m of scientific and techr	nical engine	eering in 1	research, development	and application for accelerator driven technology	
131	377	9/20/1995		Primary DOE			None	Civilian Radioactive Waste Management	Radioactive Waste Management
6		0		•				a l'Energie Atomique in the field of Radioactive W	
Coi	nment:		nuclear energ	y. Cooperation includes				quences of radioactive contamination on health and field/laboratory testing; preparation/packaging of ra-	
132	379	10/8/1995	10/8/2000	Primary DOE			None	Civilian Radioactive Waste Management	Radioactive Waste Management
	Title:	Agreement be	tween the Un	ited States Department	of Energy a	and the N	ational Radioactive V	Vaste Management Agency of France in the Field	of Radioactive Waste Management
0		G	0		0 1				

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

ID	File#	Start Date	End Date	Agreement Type	Legally Binding	Parent ID	Parent Type	Subject	Brief Description
ID	r ne#	Date	Date	Agreement Type	Dinuing	ID	I arent Type	Subject	Biter Description
564	487	5/9/2000	5/9/2005	Primary DOE	C E.	C.A 11	None	Defense Programs	DOE/DGA Emerging Technologies
Emerg		Tecnnicai Arr	angement be	tween the Department of	of Energy o	j the Uni	tea States of America	and the Minster of Defense of the French Repubic Conce	rning Cooperation in the Application of
C		Technologies	6 5	· •					
		Auto Renewal							
582	257 Titlet	8/9/1994	8/9/2004	Primary DOE	he United	States of	None	Defense Programs missariat a l'Energie Atomique of France of Cooperation	1994- High Energy Lasers
	The:	0		gh Energy Laser-Mater				imissariai a i Energie Alomique of France of Cooperation	in Research, Development and Applications of
Con	nment:								
316	342	11/19/199		Secondary DOE		582	Primary DOE	Defense Programs	Megajoule-Class Solid State Lasers - IA #1
	Title:	Implementing Megajoule-cla	0		States Depo	artment o	f Energy and the Fre	nch Atomic Energy Commission concerning Sharing of Sc	cience and Technology Information Related to
Con	nment:	Sharing of spe	cific S&T inf	formation related to meg	ajoule-class	s solid sta	ite lasers.		
317 - IA	343	11/19/199	8/9/2004	Secondary DOE		582	Primary DOE	Defense Programs	Megajoule-Class Solid State Laser Technology
Techn		Implementing	Arrangemer	nt #2 between the United	l States De _l	partment	of Energy and the Fi	rench Commissariat a l'Energie Atomique on Cooperation	in Megajoule-Class Solid State Laser
Con	nment:	Implement coo	operative acti	vities in research and de	velopment	in megajo	oule-class solid state la	aser technology (high-power, high-energy solid state lasers a	nd target experimental chambers and support
601	496	9/18/2000	9/18/2005	Primary DOE			None	Nuclear Energy	Advanced Nuclear Reactor
	Title:	Agreement be Technology	tween The D	epartment of Energy of	the United	States of	^f America and The Co	mmissariat A L'Energie Atomique of France for Cooperat	tion in Advanced Nuclear Reactor Science and
Con	nment:								
635 Teeler	530	7/9/2001	7/9/2006	Secondary DOE		601	Primary DOE	Nuclear Energy	Advanced Nuclear Reactor Science and
Techno	Jiogy								(I-NERI)
	Title:			nt No. 1 under the Agree Science and Technolog		een the L	Department of Energy	of the United States of America and Commissariat A L'En	nergie Atomique of France for Cooperation in
Con	nment:	International N	Juclear Energ	gy Research Initiative					
629	524	1/2/2002	1/2/2007	Statement of Intent			None	Exchange of Information on Research in Life Sciences	SOI between DOE and France
	Title:	Statement of I Life Sciences	ntent Betwee	en the Department of Er	ergy of the	e United S	States of America and	the Commissariat A' L'Energie Atomique of France Conc	cerning Exchange of Information on Research in
Con	nment:								
630	525	3/13/2002	3/12/2007	Primary DOE			None	Computer Sciences	Computer Sciences
	Title:	Agreement be	tween the De	partment of Energy of t	he United S	States of .	America and the Com	missariat A' L'E'nergie Atomique of France Concerning	Cooperation in Computer Sciences
Con	nment:								
Thurs	sday, Ju	ly 17, 2003							Page 15 of 42

			0						
ID	File#	Start Date	End Date	Agreement Type	Legally Binding	Parent ID	Parent Type	Subject	Brief Description
631	526	3/13/2002	3/13/2007	Primary DOE			None	Fundamental Science	Fundamental Science on Stockpile Stewardship
		Agreement be Stockpile Stev		partment of Energy of t	he United S	states of A	America and the Con	nmissariat A' L'E'nergie Atomique of France Concerning	Cooperation in Fundamental Science Supporting
Сог	nment:	<i>F</i>	F						
650	545	5/23/2002	5/23/2007	Primary DOE			None	Civilian Radioactive Waste Management	Radioactive Waste Management Agreement
	Title:	Agreement b	etween the De	partment of Energy of t	he United S	States of A	America and the Con	nmissariat A L'Energie Atomique of France in the field of	Radioactive Waste Management
Сог	nment:								
Cou	ntry:	<u>German</u>	<u>v</u>						
613	508	7/24/2001	7/24/2006	Primary DOE			None	Science and Technology	Agreement between DOE and Germany on
Dense									Plasma Physics
	Title	Implamantin	a Aaroomont	hatwaan tha Fadaral Mii	nistry of Fd	lucation a	nd Research of the	Federal Republic of Germany and the Department of Ener	
				of Dense Plasma Physic		action a	nu Rescuren og ine i	e caeraa Republic of Germany and the Department of Ener	gy of the Onice States of America on
Сог	nment:								
88	419	2/20/1998	2/20/2003	Primary DOE			None	Energy Research and Development	Energy Research
				epartment of Energy of t earch, Science and Tech				leral Ministry of Education, Science, Research and Techn	ology of the Federal Republic of Germany on
Сог	nment:	Auto renewal	for 5 year per	iods. Broad-based umbr	ella agreen	nent to all	ow formal cooperation	on 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
				n the Department of Energy on Transportation Req				the Federal Institute for Material Research and Testing of f Radioactive Waste	f the Federal Republic of Germany: Technical
Сог	nment:								
93	31	9/27/1977		Primary DOE			None	Arms Control and Nonproliferation	Nuclear Materials Safeguards/Physical Security
		Agreement be Security Rese			of Energy	and the H	Federal Minister for .	Research and Technology of Germany Cooperate in the f	ę , ,
Сог		Open-end exp		-					

Country: <u>Ghana</u>

ID	File#	Start Date	End Date	Agreement Type	Legally Binding	Parent ID	Parent Type	Subject	Brief Description
149	392	10/1/1996	10/1/2001	Primary DOE			None	Energy Research and Development	Energy Policy, S&T and Development
	Title:			nding between the Depa 1d, Development	rtment of E	Energy of	the United States of .	America and the Ministry of Mines and Energy of the Re	public of Ghana on Cooperation in Energy Policy,
Con	nment:	environmental	management,		energy tech			e energy; fossil energy, including natural gas, liquefied petr ctive technologies aimed at reducing emissions of greenho	
330	399	2/27/1997	2/27/2001	Secondary DOE		149	Primary DOE	Energy Efficiency and Renewable Energy	Industrial Assessment Center
T 1		Implementing	Arrangemen	t Between the Departme	ent of Ener	gy of the	United States of Ame	erica and the Ministry of Mines and Energy of the Republ	lic of Ghana: Exchange of Information,
Techni	cal	Assistance and	l Collaboratio	on for the Establishment	t of the Ind	ustrial As	ssessment Center at th	he University of Science and Technology in Kumasi, Gha	na
Con	nment:			-	-				
43	378	9/29/1995		Statement of Intent			None	Energy Efficiency and Renewable Energy	Energy Efficiency and Renewable Energy
	Title:	Statement of I Renewable En		n the Department of End	ergy of the	United S	tates and the Ministry	y of Mines and Energy of the Republic of Ghana to Coop	erate in the Fields of Energy Efficiency and
Con	nment:	Exchanging ex	perience and	views on opportunities f	or the utiliz	ation of e	energy efficiency and	renewable energy technologies.	
44	380	10/30/199		Primary DOE			None	Nuclear Energy	Peaceful Uses of Nuclear Energy
and	Title:		5		of Technic	al Inforn	nation and for Coope	ration in the Field of Peaceful Uses of Nuclear Energy b	etween the Ghana Atomic Energy Commission
Con	monte	Argonne Natio		2	tionshin fo	r the evel	hange of S&T inform	ation regarding the peaceful uses of atomic energy. This is	a hatwaan Chana Atomia Enorgy Commission and
Con	iment.	ARGONNE N.			auonsnip io	i ule exci	hange of S&T informa	auon regarding the peaceful uses of atomic energy. This is	s between Ghana Atomic Energy Commission and
Сош	ntrv	<u>India</u>							
	·		0/12/2005	D' DOE			N		
615 Energy	510	9/13/2000	9/13/2005	Primary DOE			None	Energy Efficiency and Renewable Energy	MOU between DOE and India concerning
									Consultations
Con	Title: ament:	Memorandum	of Understa	nding between the Minis	stry of Pow	er of the	Republic of India and	d the Department of Energy of the United States of Ameri	ica Concerning Energy Consultations
Cou	ntry	<u>Israel</u>							
156	384	2/1/1996	2/1/2001	Primary DOE			None	Energy Efficiency and Renewable Energy	Energy Cooperation
		U				5		istry of Energy and Infrastructure of Israel Concerning	0, 1
Con								mass; energy efficiency; wind energy; fossil energy, includ attached. Discussion underway in clean coal technology a	

ID	File#	Start Date	End Date	Agreement Type	Legally Binding	Parent ID	Parent Type	Subject	Brief Description
530	475	2/22/2000		Statement of Intent			None	Arms Control and Nonproliferation	SOI on Nonproliferation, Arms Control and Regional Security
	Title:	Letter of Inter Regional Secu		e Department of Energy	of the Uni	ted State	s of America and the	Atomic Energy Commission of Israel on cooperation	in the Fields of Non-Proliferation, Arms Control, and
Co	mment:	-	-						
617	512	10/23/200	10/23/200	Primary DOE			None	Energy Efficiency and Renewable Energy	Cooperation in the Field of High Temperature Superconductivity
	Title:	Implementatio Temperature S			ent of Ene	rgy of th	e United States of An	nerica and the Ministry of National Infrastructure of a	the State of Israel for Cooperation in the Field of High
Co	mment:								
Cou	ntry:	<u>Italy</u>							
160	358	5/26/1995	5/26/2000	Primary DOE			None	Energy Research and Development	Energy R&D
	Title:	Agreement be Development	tween the De	partment of Energy of th	he United S	States of 2	America and the Min	istry of Industry, Commerce and Handicraft of the Ite	
Со	mment:	continues 198	5 MOU in En	ergy R&D					
344	358	5/7/1997		Secondary DOE		160	Primary DOE	Fossil Energy	Annex 3 - Fossil Energy
	Title:	Annex III to t Field of Fossil		t between the Departme	nt of Energ	gy of the	United States of Ame	erica and the Ministry of Industry, Commerce and Ha	ndicraft of the Republic of Italy to Cooperate in the
Co	mment:	Two additiona	al areas were a	ndded in March 1998;fue	l cells for p	ower app	lications and externa	lly fired combined cycle systems	
345	358	3/24/1998	3/24/2003	Secondary DOE		160	Primary DOE	Energy Efficiency and Renewable Energy	Annex 4 - Advanced Geothermal Technology
	Title:			t between the Departme for Cooperation on Adv				rica and the Ministry of Industry, Commerce and han	dicraft of the Republic of Italy in the Field of Energy
Co	mment:	Provides for c	ollaboration b	etween Ladrello and the	Geyser Ge	othermal	Facilities		
346	358	3/24/1998	3/24/2008	Secondary DOE		160	Primary DOE	Energy Efficiency and Renewable Energy	Annex 5 - Biomass Energy
	Title:			between the Departmen for Cooperation in the				ica and the Ministry of Industry, Commerce and Han	dicraft of the Republic of Italy in the Field of Energy
Co	nment:	Information E	xchange on b	iomass systems. Task sh	aring on ho	ot gas cle	an-up for medium-sea	ale gasifiers.	
347	358	3/24/1998	3/24/2008	Secondary DOE		160	Primary DOE	Energy Efficiency and Renewable Energy	Annex 6 - Photovoltaic Technology
	Title:			t between the Departme for Cooperation in the				rica and the Ministry of Industry, Commerce and Ha	ndicraft of the Republic of Italy in the Field of Energy
Co	mment:	Info exchange	on reducing	manufacturing costs of P	V cells. C	ooperatio	on on guidelines for b	uilding integrated PV systems.	

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	-								
ID	File#	Start Date	End Date	Agreement Type	Legally Binding	Parent ID	Parent Type	Subject	Brief Description
492	444	7/10/1998	7/10/2003	Secondary DOE		160	Primary DOE	Energy Research and Development	Annex 7 - Electric and Hybrid Vehicles
Б		Annex VII to	the Agreeme	nt between the Departme	ent of Ener	gy of the	United States of Ame	erica and the Ministry of Industry, Commerce and Ha	ndicraft of the Republic of Italy in the Field of
Energ	v	Research and	Development	for Cooperation in the	Field of Ele	ectric an	d Hybrid Vehicles		
Сог	nment:	Remains in for	rce for 5 year	s or until the Agreement	expires, wh	nichever i	s sooner.		
7	323	10/4/1993	10/4/2003	Intergovernmental			None	Science and Technology	Gov't to Govt S & T
				•	States of A	merica a	nd the Government o	f the Italian Republic for Scientific and Technological	
Сог	nment:	Science and T Renewed last i	0, 0	reement between the Uni	ted States a	and the G	overnment of Italy wh	nich allows U.S. Government agencies to undertake coo	peration in their respective areas of responsibility.
46	323	10/31/198		Statement of Intent		7	Intergovernmental	Information and/or Personnel Exchange	Synchrotron Light Source
40			tent of Inten		t of Energ		U	ica and the Ministry of the University and of Scientific	
Сот	nment:	5	oj 111011			y oy uie (Survey States of Times		
Cou	ntry	<u>Japan</u>							
251	385	5/3/1996	5/3/2001	Primary DOE		10	Intergovernmental	Science and Technology	DOE/STA Basic Science & Technology
	Title:	Implementing	Arrangemen	nt between the Departme	nt of Energ	gy of the	United States of Ame	rica and the Science and Technology Agency of Japan	in the Field of Basic Science and Technology
Сог	nment:			oint projects in the field of Heavy Ion Collider and b				physics; synchrotron radiation; medical application of th	e radiation produced by accelerators; spin physics
166	195	12/3/1986	12/2/2001	Primary DOE			None	Nuclear Energy	Radioactive Waste Management
	Title:	Agreement be	tween the Un	nited State Department of	f Energy ai	nd the Po	ower Reactor and Nuc	clear Fuel Development Corp of Japan in the Area of I	Radioactive Waste Management
Cor	nment:	Study topics a	nd develop co	operatively and jointly to	echnology a	and techr	niques necessary for th	e safe management of radioactive wastes.	
511	195	7/17/1998	7/17/2000	Secondary DOE		166	Primary DOE	Civilian Radioactive Waste Management	Project Annex on Engineered Barriers
.		Project Annex	for Coopera	tion in Near-Field Perfo	ormance an	nd Analy	ses on the Long-Term	Behavior of the Engineered Barriers under the Agree	ment between the Department of Energy of the
Unitea	l	States of Amer	rica and the F	Power Reactor and Nucle	ear Fuel De	evelopm	ent Corporation Japa	n in the Area of Radioactive Waste Management	
Сог	nment:	-							
395	365	2/19/1997	5/19/2000	Secondary DOE		171	Primary DOE	Arms Control and Nonproliferation	Action Sheet 30 - Randomized Inspection
(PNC)									
	Title:			United States Departmen otice Randomized Inspec	<i>v</i> 0.	y (DOE)	and The Power Reac	tor and Nuclear Fuel Development Corporation of Jap	oan (PNC) for Joint Study of Improved Safeguards
Сог	nment:	0.		······					

		Start	End		Legally	Parent			
ID	File#	Date	Date	Agreement Type	Binding	ID	Parent Type	Subject	Brief Description
545	365	12/18/199	12/18/200	Secondary DOE		171	Primary DOE	Arms Control and Nonproliferation	Action Sheet 37 - A-MAGB at Plutonium Fuel Production Facility
				e United States Departn l Material Accountancy				uclear Cycle Development Institute (JNC) for Development	of Plutonium Isotopic Systems for Measuring
Con	nment:								
546	365	12/18/199	12/18/200	Secondary DOE		171	Primary DOE	Arms Control and Nonproliferation	Action Sheet 38 - Remote Monitoring for Tokai
		Action Sheet 3 Facility Safegi			ient of End	ergy (DO	E) and the Japan Nu	uclear Cycle Development Institute (JNC) for Development	of Remote Monitoring for Tokai Vitrification
Con	nment:								
547	365	3/12/1999	3/12/2002	Secondary DOE		171	Primary DOE	Arms Control and Nonproliferation	Action Sheet 39 - Radiation Sensor Monitors at
		Action Sheet 3 C/S at Monju 1			ment of En	ergy (DC	DE) and The Japan N	Nuclear Cycle Development Institute (JNC) for Developmen	t of Radiation Sensor Monitors to Improve Dual
Con	nment:								
548	365	3/22/1999	3/22/2002	Secondary DOE		171	Primary DOE	Arms Control and Nonproliferation	Action Sheet 40 - Isotope Dilution Gamma-Ray Spectrometry
		,	,	The United States Depa a-Ray Spectrometry (ID		Energy (L	OOE) and The Japan	Nuclear Cycle Development Institute (JNC) for Joint Rese	arch and Development Study of the Metrology of
Con	nment:								
549	365	3/24/1999	9/24/2000	Secondary DOE		171	Primary DOE	Arms Control and Nonproliferation	Action Sheet 41 Conceptual Design for RETF Safeguards System Phase 2.
		Action Sheet 4 Safeguards Sy			Developm	ent Instit	tute (JNC) And The	United States Department of Energy (DOE) For Joint Study	on the Conceptual Design for the RETF
Con	nment:								
173	356	4/11/1995	4/11/2005	Primary DOE			None	Nuclear Energy	Nuclear Reactor Technologies R&D
		Memorandum Research and			ed States R	esearch a	and Development Org	ganizations and the Japanese Research Organizations for C	ooperation in Nuclear Reactor Technologies
Con			1	ration between DOE and lear reactor technologies		l laborato	ories, EPRI and the A	dvanced Reactor Corporation, and the Japanese R&D Organi	zations, including PNC, JAPC, JAERI and
174	362	7/17/1995	7/17/2005	Primary DOE			None	Nuclear Energy	Nuclear Research and Development - JAERI
	Title:	Agreement be	tween the De	partment of Energy of th	he United S	States of .	America and the Jap	oan Atomic Energy Research Institute in the Field of Nuclea	ır Research and Development
Con	iment:	Cooperation to	o conduct pro	grams associated with nu	iclear R&D	in such	areas as basic nuclear	r S&T, nuclear safety, and advanced nuclear technologies.	

		Start	End		Legally	Parent			
ID	File#	Date	Date	Agreement Type	Binding	ID	Parent Type	Subject	Brief Description
397 for	428	4/23/1998	4/23/2001	Secondary DOE		174	Primary DOE	High Energy Physics	Collaborative program for target development
									high power spallation neutron sources
				Agreement between the . er Spallation Neutron S		iic Energ	gy Research Institute	and the Department of Energy of the United States of Ame	rica for Collaborative Program of Target
Con	nment:	Work will be j	preformed at 1	the Alternating Gradient	Synchrotro	n facility	at Brookhaven Nation	nal Laboratory	
481	435	6/9/1997	6/9/2007	Secondary DOE		174	Primary DOE	Arms Control and Nonproliferation	SMA - Safeguards
				Agreement Between the Accountancy, Verification				and the Department of Energy of the United States of Ame	rica Concerning Research and Development in
Cor	nment:								
523	468	1/27/2000	1/27/2005	Primary DOE			None	Arms Control and Nonproliferation	DOE/JNC Safeguards Agreement
		0		partment of Energy of t and Accounting Measure			1	in Nuclear Cycle Development Institute For Cooperation in	Research and Development (R&D) Concerning
Con	nment:	Improving the	efficiency an	d effectiveness of equip	ment and te	chniques	for safeguards and no	nproliferation to implement policies and procedures pursuan	t to the non-proliferation treaty.
550	482	1/27/2000	7/27/2001	Secondary DOE		523	Primary DOE	Arms Control and Nonproliferation	Action Sheet 42 Measurement Methods for
Scrap									Materials
		Action Sheet with High Imp		he Japan Nuclear Cycle	Developm	ent Instit	ute (JNC) and The U	nited States Department of Energy (DOE) For Investigation	n of Measurements Methods for Scrap Materials
Cor	nment:								
551	482	1/27/2000	1/27/2003	Secondary DOE		523	Primary DOE	Arms Control and Nonproliferation	Action Sheet 43 NDA Techniques at Ningyo
				he United States Depart ntion at the Ningyo Enr			DE) and The Japan N	uclear Cycle Development Institute (JNC) for Design Studi	es and Development of NDA Techniques for
Cor	nment:								
552	482	1/27/2000	1/27/2002	Secondary DOE		523	Primary DOE	Arms Control and Nonproliferation	Action Sheet 44 - Dry Reprocessing Methods
	Title:	Action Sheet	44 between T	he Japan Nuclear Cycle	Developm	ent Instit	ute (JN) and The Un	ited States Department of Energy (DOE) for A Joint Study	of Safeguards Systems for Dry Reprocessing
Cor	nment:								
553 PFPF	482	1/27/2000	1/27/2003	Secondary DOE		523	Primary DOE	Arms Control and Nonproliferation	Action Sheet 45 Remote Monitoring System at
				he United States Depart ction Facility in Japan	ment of En	ergy (DC	DE) and The Japan N	uclear Cycle Development Institute (JNC) for Development	t of the Integrated Remote Monitoring System at
Cor	nment:								

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ID	File#	Start Date	End Date	Agreement Type	Legally Binding	Parent ID	Parent Type	Subject	Brief Description
597	492	8/22/2000	8/22/2005	Primary DOE			None	Nuclear Energy	Agreement for Nuclear Technologies
571				5	the United	States o		pan Nuclear Cycle Developments Institute in the Fie	
Con	nment:								
640 Agreer	535	7/10/2002	7/10/2005	Primary DOE			None	Civilian Radioactive Waste Management	Nuclear Waste Management Organization
Agreen	nent								(NUMO)
	Title:	Agreement be	etween the De	epartment of Energy of i	the United S	States of	America and the Nucl	lear Waste Management Organization of Japan in th	e Field of Radioactive Waste Management
Con	nment:								
643 Energy	538	9/2/2002	9/2/2005	Primary DOE			None		Agreement bet. DOE and the Japan Atomic
05									Research Institute
Synchi		Specific Mem	orandumm o	of Agreement between th	e Departme	ent of En	ergy of the United Sta	ttes of America and the Japan Atomic Energy Resear	rch Institute on Cooperation in the Field of
		Radiation Res	earch						
Con	nment:								
653	548	3/19/2003	3/19/2008	Primary DOE			None	Civilian Radioactive Waste Management	Radioactive Waste Management
	Title:	Agreement be	etween the De	epartment of Energy of t	the United S	States of	America and the Japa	n Nuclear Cycle Development Institute in the Field o	of Radioactive Waste Management
Con	nment:								
657	552	8/18/2000	8/18/2005	Amendment		263	None	Fusion Energy	Amendment V
	Title:	Amendment	V to the Agre	ement between the Japa	n Atomic E	nergy Re	esearch Institute and t	he United States Department of Energy on Cooperat	ion in Doublet III Project
~									
Con	nment:								
8 Agreer	42	5/2/1979	5/1/2005	Intergovernmental			None	Energy Research and Development	US/Japan Energy and Related Fields
Agreen		Agreement be	tween the G	overnment of the United	States of A	merica a	and the Government of	f Japan on Cooperation in Research and Developme.	nt in Energy and Related Fields
Con		0		ng cooperation in researc	0				
22	114	1/24/1983	5/1/2005	Broad		8	Intergovernmental	Fusion Energy	Fusion Energy
22				shing the Cooperation in	n Fusion R		e	rusion Energy	rusion Energy
Con	nment:	A cooperative Ministry of Ed	program for lucation, the S	the exchange of informa STA, MONBUSHO, and	tion, person the MITI, a	nnel and o as establi	equipment, and special shed by an exchange o	activities as may be mutually agreed, in various techn f diplomatic notes and separate agreements within eac elated Fields remains in force.	
255	116	1/25/1983	5/1/2005	Primary DOE		22	Broad	Fusion Energy	Fusion Energy - MITI
	Title:			lishing the MITI-DOE (Cooperation	ı in Fusi	on Research and Deve		
Con	nment:	Remains in ef	fect as long a	s the Exchange of Notes	between US	SA-Japai	n on Cooperation in Fu	sion Research and Development	
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ID	File#	Start Date	End Date	Agreement Type	Legally Binding	Parent ID	Parent Type	Subject	Brief Description
256 agreen	117 nent	1/25/1983	5/1/2005	Primary DOE		22	Broad	Fusion Energy	Fusion Energy - STA - Primary DOE
	Title:	Exchange of I	Letters establ	ishing the STA-DOE Co	operation i	n Fusio	n Research and Devel	lopment	
Cor	nment:	Remains in eff	fect as long as	s the Exchange of Notes	between US	SA-Japar	on Cooperation in Fu	usion Research and Development	
417	134	11/8/1983	5/1/2005	Secondary DOE		256	Primary DOE	Fusion Energy	Fusion Research and Development - JAERI
	Title:	Implementing	Arrangemen	it between the Japan Ato	omic Energ	y Reseau	ch Institute and the U	United States Department of Energy on Cooperation in Fu	sion Research and Development
Сог		magnetic syste	ms for fusion					containment devices, such as tokamaks; joint research relate ems engineering; environmental and safety aspects of fusior	
463	133	11/8/1983	3/31/2004	Tertiary DOE		417	Secondary DOE	Fusion Energy	Annex 1 - First Wall and Blanket Structural
				Arrangement between Ja rst Wall and Blanket Str				and U.S. Department of Energy on Cooperation in Fusion Fission Reactors	Research and Development U.SJapan
Cor	nment:	JOINT IRRAI	DIATION EX	PERIMENTS AND EVA	ALUATION	N OF RE	SULTS.		
466	210	6/11/1987	6/11/2001	Tertiary DOE		417	Secondary DOE	Fusion Energy	Annex 4 - Fusion - Fuel Processing
				ting Arrangement betwe orative Program Techno				nstitute and the United States Department of Energy on Co	poperation in Fusion Research and Development
Сог								A at LANL for the purposes of developing and demonstratir developing/testing/qualifying equipment and material for tri	
471	270	1/11/1990	1/11/2005	Tertiary DOE		417	Secondary DOE	Fusion Energy	Annex 9 - Data Link
				ting Arrangement betwe tion on the Data Link	en the Japa	an Atom	ic Energy Research I	nstitute and United States Department of Energy on Coope	rration in Fusion Research and Development for
Сот		comparison; (3) access to co		ies by visiti	ng scient	ists for computations	of the Parties through (1) code development and/or usage; (2 related to purpose of visit; (4) administration of the Data Lin	
257	115	1/29/1983	5/1/2005	Primary DOE		22	Broad	Fusion Energy	Fusion Energy - Monbusho - Primary DOE
	Title:	Exchange of I	Letters establ	ishing the Monbusho-D	OE Cooper	ation in	Fusion Research and	l Development	
Cor	nment:	Remains in eff	fect as long as	s the Exchange of Notes	between US	SA-Japar	on Cooperation in Fu	usion Research and Development	
419	214	7/17/1987	7/19/2001	Secondary DOE		257	Primary DOE	Fusion Energy	Annex 1 - Irradiation Effects Utilizing Fission
				nge of letters between Ju utilizing fission	apan Minis	try of Ea	ucation (Monbusho)	and USDOE on cooperation in fusion R&D for collaborat	ion in fundamental studies of irradiation
Cor	nment:	JOINT IRRAI	DIATION AN	D EVALUATION EXP	ERIMENT	S ON M	ATERIALS		

ID	File#	Start Date	End Date	Agreement Type	Legally Binding	Parent ID	Parent Type	Subject	Brief Description
10	THE	Date	Date	Agreement Type	Dinuing	ID	r arent rype	Subject	bitti bescription
420	258	12/12/198	12/21/200	Secondary DOE		257	Primary DOE	Fusion Energy	Annex 2 - Data Link & Data Link Projects for
				5, 1983 Exchange of Lei tion on a data Link and				Department of Energy of the United States on Cooperation	n in Fusion Research and Development
Cor	nment:	STEERING C	OMMITTEE	MEETING					
602	497	1/17/2001	7/19/2007	Secondary DOE		257	Primary DOE	Fusion Energy	Amedment 4 - Annex 1 Fusion Research and Development
	Title:	Amendment 4	of Annex I t	o the DOE - Monbusho	Exchange a	of Letter	s on Cooperation in Fi	usian Research and Development	
Cor	nment:								
259	228	10/16/198	5/1/2005	Primary DOE		8	Intergovernmental	Fossil Energy	Coal R&D - AIST and ANRE
	Title:	Implementing	Arrangemen	nt between the Agency of	f Industrial	Science	and Technology and t	he Agency of Natural Resources and Energy of Japan and	the United States Department of Energy in
Coal		Research and	Development						
Cor	nment:	Establish com	prehensive co					elopment of coal R&D efforts, i.e., coal liquefaction, coal g n.	asification; materials and components for coal
262	48	8/24/1979	5/1/2005	Primary DOE		8	Intergovernmental	Fusion Energy	Fusion Energy/Coordinating Committee
	Title:	Exchange of I	Letters Establ	lishing a Coordinating (Committee o	n Fusio	n Energy		
Cor	nment:			ommittee on Fusion Ener ght of such cooperative a		ate the c	oordination and implen	nentation of cooperative activities in the area of fusion as we	ell as to assure proper balance and to ensure the
263	50	8/28/1979	8/28/2000	Primary DOE		8	Intergovernmental	Fusion Energy	Fusion Energy/Doublet III
	Title:	Agreement be	tween the Un	ited States Department	of Energy a	nd the J	apan Atomic Energy K	Research Institute on Cooperation in Doublet III Project	
Cor	nment:	Undertake exp	erimental res	earch on tokamak plasm	as with doub	olet and	dee-shaped cross-section	ons in the Doublet III, a tokamak facility, located in LaJolla,	California.
264	58	11/11/197	5/1/2005	Primary DOE		8	Intergovernmental	High Energy Physics	High Energy Physics
		Implementing Physics	Arrangemen	t between the Departme	ent of Energ	y of the	United States of Amer	ica and the Ministry of Education, Science and Culture of	Japan on Cooperation in Field of High Energy
Cor								ccelerator and detector instrumentation R&D the fabrication Related Fields Agreement signed on May 2, 1979	n and subsequent use of new experimental
Cou	ntry:	<u>Kazakhs</u>	<u>tan</u>						
186	402	7/12/1996		Primary DOE			None	Science and Technology	Energy R&D and Tech exchange
Develo	opment	0			he United S	tates of .	America and the Minis	stry of Science-Academy of Sciences of the Republic of Ka	zakhstan on Scientific Research and
Car		and Technolog	y Exchange	rograms					
Cor	nment:								

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ID	File#	Start Date	End Date	Agreement Type	Legally Binding	Parent ID	Parent Type	Subject	Brief Description
428	402	5/13/1997		Secondary DOE		186	Primary DOE	*Other - Remote Sensing	Remote Sensing Mission
	Title:	Annex 1 - For	the Conduct	of the Remote Sensing	Mission (A	MPS) in	the Republic of Kaza	khstan	
Cor	nment:								
529	474	12/19/200		Primary DOE			None	Arms Control and Nonproliferation	Decommissioning of the BN-350 Reactor
		1 0	0	-	nt of Energ	gy of the	United States of Ame	rica and the Ministry of Energy, Industry and trade of the	Republic of Kazakhstan Concerning
~		Decommission	ing of the BN	-350 Reactor					
Cor	nment:								
Cou	ntry:	<u>Korea, R</u>	Republic (<u>of</u>					
180	389	6/14/1996	6/14/2001	Primary DOE		11	Intergovernmental	Fusion Energy	Fusion Energy Research and Related Fields
				t between the Departme nd Related Fields	nt of Energ	gy of the	United States of Ame	rica and the Ministry of Science and Technology of the Re	public of Korea for Cooperation in the Area of
Con	nment:	Promote S&T	cooperation is	n fusion energy research	and related	l fields in	order to enhance con	tributions. Remains in force for 5 years or until termination	of the S&T Agreement, whichever occurs first.
626	521	6/14/2001	6/14/2006	Secondary DOE		180	Primary DOE	Fusion Energy	Extension on the Implementing Arrangement between DOE and Korea
		0		nplementing Arrangeme Fusion Energy Researci			<i>v</i> 0, <i>v</i>	f the United States of America and the Ministry of Science	and Technology of the Republic of Korea for
Cor	nment:								
179	388	6/14/1996	6/14/2001	Primary DOE			None	Nuclear Energy	Cooperative Laboratory Relationship
		Memorandum	of Understa	nding between the Depa	rtment of E	Energy oj	the United States of	America and the Ministry of Science and Technology of th	e Republic of Korea for a Cooperative
Labor	itory	Relationship							
Con				aceful uses of nuclear end al research related to nuc				e management; nuclear safety and environment; nuclear safe	eguards technology; basic sciences; education;
595	388	6/29/2000	6/29/2005	Secondary DOE		179	Primary DOE	Nuclear Energy	Annex 4 - Cintichem Process Technology (first project annex)
				04			<i>y</i> 0, <i>y</i>	United States of America and the Korea Atomic Energy Re Ministry of Science and Technology of the Republic of Kor	5
Car									

Comment:

ID	File#	Start Date	End Date	Agreement Type	Legally Binding	Parent ID	Parent Type	Subject	Brief Description
608	503	5/16/2001	5/16/2006	Secondary DOE		179	Primary DOE	Nuclear Energy	Annex V - MOU between DOE and Ministry of Science and Technology of the Republic of
Korea (on								I-NERI
							0000	United States of America and the Ministry of Science and T al Nuclear Energy Research Initiative (INERI)	"echnology of the Republic of Korea for a
Con	iment:	-	·	•			0		
609 Institut	504 ions	5/16/2001	6/14/2001	Secondary DOE		179	Primary DOE	Nuclear Energy	Amendment C to Annex III Participating
Science	e								to the MOU between DOE and Ministry
									and Technology
	Title:			I - Participating Institut c of Korea for a Coopera				ing between the Department of Energy of the United States	of America and the Ministry of Science and
Con	iment:								
644	539	6/14/2001		Secondary DOE		179	Primary DOE	Science and Technology	Extend and Amend MOU bet. DOE and MOST
of	Title:	Agreement to	Extend and 2	Amend the Memorandu	m of Under	rstanding	between the Departm	nent of Energy of the United States of America and the Mi	istry of Science and Technology of the Republic
J		Korea for a Co	ooperative La	boratory Relationship					
Con	iment:								
639	534	9/17/2002	9/17/2007	Primary DOE			None	Science and Technology	Safeguards Agreement
								inistry of Science and Technology of the Republic of Kore ontainment and Surveillance Technologies for Internation	
Con	iment:								
Cou	ntry:	<u>Mexico</u>							
12	41	6/15/1972		Intergovernmental			None	Science and Technology	Science & Technology
		U		nited States of America of		5	ntific and Technical (Cooperation	
Con	iment:	Effected by Ex	change of N	otes Signed at Washingto	on June 15,	1972			
270	386	5/7/1996		Primary DOE		12	Intergovernmental	Energy Research and Development	Energy Cooperation
		0		1 00 0		0		etariat of Energy of the United Mexican States for Energy	1
Con			fossil energy	technologies, giving due				search, development and commercialization to promote imp as well as to exchange, develop, and analyze energy strateg	

ID	File#	Start Date	End Date	Agreement Type	Legally Binding	Parent ID	Parent Type	Subject	Brief Description
483	437	6/10/1998		Secondary DOE	11 F	270	Primary DOE	Energy Efficiency and Renewable Energy	Annex 1 - Renewable Energy
Cor		•	-	ion in the Field of Renew ion by SNL and CNEA (mmission for Energy	Savings)	
484	438	6/10/1998		Secondary DOE	Mexico Mat		Primary DOE	Energy Efficiency and Renewable Energy	Annov 2 Enorgy Efficiency
484				tion in the Field of Ener	gy Efficien	270 cv	Phinary DOE	Energy Enterency and Renewable Energy	Annex 2 - Energy Efficiency
Con		Project areas u			30 33				
498	447			Secondary DOE		270	Primary DOE	Environmental Restoration and Waste Management	Annex 3 - Enviro Cooperation in hydrocarbons
Cor		-		<i>mental Cooperation in t</i> Mexico Institute of Petro	-	-	irbons		
		-					D: DOE	F 1 F	
519	465 Title:	12/7/1999 Project Anney		Secondary DOE tion in the field of Clean	Fossil Ene	270 rav Tech	Primary DOE	Fossil Energy	Annex 4- Clean Fossil Energy Technologies
Con		•	-	s the Agreement is in for		igy icen	monogies		
610	505	5/7/2001	-	Secondary DOE		270	Primary DOE	Science and Technology	
010				5	on between		5	he United States of America and the Secretariat of Energy	of the United Mexican States, and its Four
Cor	nment:								
188	405	3/25/1985	3/25/2005	Primary DOE			None	Arms Control and Nonproliferation	Sister Lab Arrangement
				nding (MOU) for the E. e Los Alamos National i	0 0		5 5	r Cooperation in the Field of Peaceful Uses of Nuclear El a	nergy between the National Institute of Nuclear
Con	nment:	Sister lab arrar	ngement supp	porting Article IV of the	NPT.				
604	499	3/9/2001		Broad			None	Fifth Hemispheric Energy Ministers Meeting	Mexico Declaration
		Fifth Hemisph	heric Energy	Ministers Meeting Mex	io City, Me.	xico - M	arch 9, 2001. Mexico	Declaration - Energy: A Crucial Factor for Integration a	nd Sustainable Development in the Hemisphere
Cor	nment:								
Cou	ntry:	Morocco	<u>)</u>						
599	494	10/16/200	10/16/200	Primary DOE			None	Energy Efficiency and Renewable Energy	Agreement on Concerning Cooperation in
Energy	/								
				Department of Energy of wable Energy	the United	States oj	f America and The M	inistry of Industry, Commerce, Energy and Mines of the K	Efficiency and Renewable Energy <i>(ingdom of Morocco Concerning Cooperation in</i>
Cor	nment:	Lacisy Lynce		Linder Energy					
Thurs	sday, Ju	ly 17, 2003							Page 27 of 42

ID	File#	Start Date	End Date	Agreement Type	Legally Binding	Parent ID	Parent Type	Subject	Brief Description
627	522	10/16/200	10/16/200	Secondary DOE		599	Primary DOE	Energy Efficiency and Renewable Energy	Project Annex I - EERE
				eement between the De Energy Efficiency and			of the United States of	f America and the Ministry of Industry, Commerce,	Energy and Mines of the Kingdom of Morocco
Cor	nment:								
647	542	6/3/2002	6/3/2007	Secondary DOE		599	Primary DOE	Energy Efficiency and Renewable Energy	Project Annex 2 - Clean Energy Technologies
				eement between the De Clean Energy Techno		Energy (of the United States o	f America and the Ministry of Industry, Commerce,	Energy and Mines of the Kingdom of Morocco
Cor	nment:								
Cou	ntry:	<u>Nigeria</u>							
48	76	7/23/1980		Statement of Intent			None	Energy Research and Development	Energy R&D
	Title:	Memorandun	n of Intent Co	oncerning Energy Coop	eration betv	veen the	Government of the U	nited States of America and the Government of the	Federal Republic of Nigeria
Cor								onmental effects of energy, develop and demonstrate increased official cooperation. Formal cooperation needed	
520	466	8/14/1999		Primary DOE			None	*Other - Energy Policy	MOU on Energy Policy
	Title:	Memorandun	n of Understa	nding between the Dep	artment of 1	Energy oj	the United States of	America and the Federal Ministry of Power and Ste	el of the Federal Republic of Nigeria on Energy Policy
Cor	nment:								
Cou	ntry:	<u>Pakistar</u>	<u>1</u>						
49	339	9/24/1994		Statement of Intent			None	*Other - Climate Change	Climate Change
	Title:	Joint Stateme	ent of Intent b	etween the Department	of Energy	of the Un	ited States of Americ	a and the Environment and Urban Affairs Division	of the Islamic Republic of Pakistan
Cor	nment:	Enhancing mu	utual environm	nental protection, in par	ticular, cont	rolling gr	eenhouse gas emissio	ns to limit potential adverse climate change impacts (Environment and Urban Affairs Division).
50 and	338	9/24/1994		Statement of Intent			None	Fossil Energy	Statement of Intent w/ Ministry of Petroleum
									Natural Resources
	Title:	Statement of	Intent betwee	n the Department of Er	ergy of the	United S	tates of America and	the Ministry of Petroleum and Natural Resources,	Government of the Islamic Republic of Pakistan
Cor	nment:	Promoting tra	de, investmen	it and cooperation betwe	en U.S. & F	akistan (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.

ID	File#	Start Date	End Date	Agreement Type	Legally Binding	Parent ID	Parent Type	Subject	Brief Description
51 Power	340	9/24/1994		Statement of Intent]	None	Energy Efficiency and Renewable Energy	Statement of Intent w/ Ministry of Water and
	Title:	Statement of	Intent betwee	n the Department of En	ergy of the	United Sta	tes of America and	the Ministry of Water and Power of the Islamic Republic	of Pakistan
Con				t and cooperation betwee views on opportunities f				r and Power) private and public sector entities in the fields cing electricity policy.	of fossil and renewable energy, and in the
Cou	ntry:	<u>Palestin</u>	ian Auth	<u>ority</u>					
535	479	2/22/2000		Statement of Intent		1	None	Energy Research and Development	Energy Planning SOI
	Title:	Joint Stateme	ent of Intent b	etween the Department	of Energy of	of the Unit	ed States of America	a and the Palestinian Energy Authority on Cooperation in	the Field of Energy
Con	nment:								
Cou	ntry:	<u>Peru</u>							
512	458	6/17/1991	6/16/2001	Primary DOE		1	None	Arms Control and Nonproliferation	Sister Lab Arrangement
		Arrangement National Labo		ange of Technical Infor	mation and	for Coop	eration in the Field	of Peaceful Uses of Nuclear Energy between the Peruvian	Institute of Nuclear Energy and the Los Alamos
Con	nment:								
603	498	3/8/2001		Statement of Intent		1	None	Cooperation in the Field of Energy	Cooperation in the Field of Energy
	Title:	Joint Stateme	ent of Intent b	etween the Department	of Energy	of the Unit	ed States of America	and The Ministry of Energy and Mines of the Republic of	of Peru on Cooperation in the Field of Energy
Con	nment:								
645	540	8/14/2001	8/14/2006	Primary DOE		1	None	Science and Technology	MOU - Cooperation in the Field of Energy
	Title:	Memorandun	n of Understa	nding between the Depa	rtment of I	Energy of t	he United States of .	America and the Ministry of Energy and Mines of the Rep	oublic of Peru on Cooperation in the Field of
Con	nment:								
Cou	ntry:	<u>Philippi</u>	nes						
195	403	6/19/1997	6/19/2002	Primary DOE		1	None	Information and/or Personnel Exchange	Info Exchange
	Title:	Memorandun	n of Agreeme	nt between the Departm	ent of Ener	gy of the U	nited States of Ame	rica and the Department of Energy of the Republic of the	Philippines for the Exchange of Energy
Con	nment:								
Cou	ntry:	<u>Poland</u>							

ID	File#	Start Date	End Date	Agreement Type	Legally Binding	Parent ID	Parent Type	Subject	Brief Description
13	224	9/28/1987	9/28/2002	Intergovernmental			None	Science and Technology	Science & Technology
	Title:	Agreement be	tween the Go	overnment of the United	States of A	merica a	and the Government of	f the Polish People's Republic on Cooperation in Science	and Technology and its Funding
Сог	mment:	Develop, supp governments.			the basis o	f the prin	ciples of equality, rec	iprocity, and mutual benefit. Joint projects of mutual intere	est are funded by a fund contributed to by the two
198 Mgmt	367	8/21/1995	8/21/2000	Primary DOE			None	Environmental Restoration and Waste Management	Environmental Restoration Hazardous Waste
	Title:			Exchange and Cooperati Restoration and Hazard				f the United States of America and the Institute for Ecolog	gy of Industrial Areas of the Republic of Poland in
Сог	mment:			h the safe management o logies for soil cleaning;				with human exposure to environmental contamination from 5.	chemical and heavy metals in soils; demonstration
Cou	ntry	: <u>Romani</u>	<u>a</u>						
513	459	3/29/1999	3/26/2004	Primary DOE			None	Arms Control and Nonproliferation	Sister Lab Arrangement
_		Arrangement	for Informat	ion Exchange and Coop	eration in .	Area of I	Peaceful Uses of Aton	nic Energy between United States Department of Energy ((DOE) and the Ministry of Industry and
Comm	ierce	(MIC) - Roma	nia						
Сог	nment:	. ,		ooperative institutional r	elationship	between	the participants for th	e exchange of scientific and technological and other inform	nation regarding the peaceful uses of atomic
				1	1		1 1		
Cou	ntry	: <u>Russian</u>	Federati	ion					
203 Manag	395 gement	9/16/1996	9/16/2001	Primary DOE		14	Intergovernmental	Environmental Restoration and Waste Management	Environmental Restoration and Waste
	Title:	Memorandun Restoration ar	<i>v</i> 1	-	ment of En	ergy of U	Inited States of Ameri	ica and the Ministry of the Russian Federation on Atomic	Energy in the Fields of Environmental
Со	mment:								
211	396	9/16/1996	9/16/2001	Primary DOE		14	Intergovernmental	Nuclear Energy	Nuclear Reactor Safety
	Title:	Memorandum	ı of Cooperat	tion between the United	States of A	merica a	nd the Russian Feder	ation in the Field of Civilian Nuclear Reactor Safety	
Сог	nment:	replaces MOU	in Civilian N	Nuclear Reactor Safety si	gned 26 Ap	oril, 1988	;		
213	397	9/16/1996	9/16/2001	Primary DOE		14	Intergovernmental	Fusion Energy	Magnetic Confinement Fusion
	Title:	Memorandun Fusion	ı of Cooperat	tion between the Depart	ment of En	ergy of t	he United States of An	nerica and the Ministry of the Russian Federation on Ato	mic Energy in the Field of Magnetic Confinement
Сог	nment:	Focus on Fusi	on science res	search and development					

ID	File#	Start Date	End Date	Agreement Type	Legally Binding	Parent ID	Parent Type	Subject	Brief Description
436	397	9/16/1996	9/16/2001	Secondary DOE		213	Primary DOE	Nuclear Energy	Annex 1
	Title:	Annex 1 - List	t of Organiza	tions that could particip	ate				
Cor	nment:								
214	398	2/17/1997	2/17/2002	Primary DOE		14	Intergovernmental	*Other - High Energy and Nuclear Physics	Fundamental Properties of Matter
	Title:	Memorandum	ı of Cooperat	ion in the Field of Resea	rch on Fu	ndament	al Properties of Matte	r between the Department of Energy of the United States of	f America and the Ministry of Atomic Energy
and		the State Com	mittee for Sc	ience & Technologies of	the Russia	ın Feder	ation		
Con	nment:	activities coor	dinated by the	e Joint Coordinating Corr	mittee for	Research	in the Fundamental P	roperties of Matter (FCC-FPM)	
15 Weapo	315 ons	2/18/1993		Intergovernmental			None	Nuclear Energy	Disposition HEU Extracted From Nuclear
	Title:	Agreement be Weapons	tween the Go	vernment of the United .	States of A	merica a	nd the Government of	f the Russian Federation Concerning the Disposition of H	ghly Enriched Uranium Extracted from Nuclear
Con	nment:	Conversion of material accou	HEU extract nting and con	ed from nuclear weapons trol, and environmental r	resulting f equiremen	rom the r ts with re	eduction of nuclear we spect to HEU and LEU	eapons; the establishment of appropriate measures to fulfill J.	he nonproliferation, physical protection, nuclear
202	394	9/16/1996	9/16/2001	Primary DOE			None	*Other - Fuel Cell Technology	RAFCO
	Title:	Agreement be	tween the Do	epartment of Energy of t	he United	States of	America and the Min	istry of the Russian Federation on Atomic Energy Regard	ing a Russian-American Fuel Cell Consortium
Con	nment:	Joint R&D wo	ork in fuel cell	technology developmen	t				
208 Enviro	324 nment	1/14/1994	1/14/2004	Intergovernmental			None	Environmental Safety Health	Radioactive Contamination Health &
				vernment of the United a active Contamination on				f the Russian Federation on Cooperation in Research on I	adiation Effects for the Purpose of Minimizing
Con				ooperation in research or onisable for coordination				nization of the consequences of radioactive contamination o	n health and the environment. DOE is the
210 Expert	360 ise	6/16/1995		Primary DOE			None	Arms Control and Nonproliferation	Nonproliferation of Weapons/Weapons
	Title:			nt between the Departme tate the Nonproliferation				rica and the International Science and Technology Center	in the Russian Federation for Cooperation in
Con	nment:	Facilitate coop	peration under	the ISTC agreement inc	luding the	efforts to	reduce or eliminate w	eapons of mass destruction in a safe and secure manner.	
209	359	6/15/1995		Secondary DOE		210	Primary DOE	Fusion Energy	Annex 1 Weapons Expertise for the Globus-M
								d States of America and the International Science and Tec nd Weapons Expertise for the Globus-M Project	hnology Center in the Russian Federation
Con		Institute in ord	er to accomm	F. IOFFE Physics-Techn odate the new GLOBUS en the experimental hall a	-M spheric	al tokama	k device and the near-	DBUS-M project by participating in the modification (or rec -by supporting equipment, the buildings that house all the or JS-M project.	onstruction) of the experimental hall of the her device supporting systems, and the

ID	File#	Start Date	End Date	Agreement Type	Legally Binding	Parent ID	Parent Type	Subject	Brief Description
536 equipn	480	6/22/1999	6/22/2001	Secondary DOE		210	Primary DOE	Fusion Energy	ISTC Annex III -Advanced Diagnostics
equipi	ient								for Spherical Tokamak Globus-M
			ooperation in					ted States of America and the International Science and T and Weapons Expertise for Advanced Diagnostics Equipt	
Con	nment:								
435 Reacto	328 rs	3/16/1994		Primary DOE			None	Nuclear Energy	Replacement of Russian Pu Production
	Title:	Protocol of M	eeting betwee	en the United States and	the Russia	n Feder	ation on the Replacem	ent of Russian Plutonium Production Reactors	
Con	nment:	Plan for replac	ement of plut	tonium production reacted	ors with alte	ernate en	ergy sources.		
515	461	9/22/1998	9/22/2003	Intergovernmental			None	Arms Control and Nonproliferation	Nuclear Cities Initiative
	Title:	Agreement be	tween the Go	vernment of the United	States of A	merica a	and the Government of	the Russian Federation on the Nuclear Cities Initiative	
Con	nment:	DOE is the US	S Executive A	Agent for the carrying ou	t provisions	s of the a	greement. Ministry of	the Russian Federation for Atomic Energy is the Executive	agent for Russia
518	464	3/24/1999	3/24/2004	Primary DOE			None	Science and Technology	MOU w/ Russian Academy of Sciences
	Title:	Memorandum	ı of Understa	nding between the Depa	rtment of I	Energy o	f the United States of .	America and the Russian Academy of Sciences on Cooper	ation in Science and Technology
Con	nment:								
565	488	5/15/2000	3/24/2004	Secondary DOE		518	Primary DOE	Environmental Restoration and Waste Management	DOE/RAS Implementing Arrangement 1
				nt #1 Under the Memora logues, Migration and A				ted States Department of Energy and the Russian Academ ic Media	y of Sciences on Cooperation in Science and
Con	nment:								
590 Phenoi	488 nena	5/16/2000	9/20/2002	Tertiary DOE		565	Secondary DOE	Environmental Restoration and Waste Management	Appendix D - Uranium Mass Transport
	Title:	Appendix D I Welded Tuffs	mplementing	Arrangement #1 of the	U.S. Depar	tment of	f Energy/Russian Acad	lemy of Sciences Memorandum of Understanding Uraniu	m Mass Transport Phenomena in Fractured
Con	nment:								
593 Fission	488	5/18/2000	9/30/2003	Tertiary DOE		565	Secondary DOE	Civilian Radioactive Waste Management	Appendix G - Interaction of Actinides and
									Products
		Appendix G I Environmenta		Arrangement #1 of the	U.S. Depar	tment of	^r Energy/Russian Acad	lemy of Science Memorandum of Understanding The Inte	raction of Actinides and Fission Products with
Con	nment:								

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ID	File#	Start Date	End Date	Agreement Type	Legally Binding	Parent ID	Parent Type	Subject	Brief Description
594	488	5/18/2000	9/30/2003	Tertiary DOE		565	Secondary DOE	Civilian Radioactive Waste Management	Appendix H - Actinide Speciation
Q. C.t.	Title:	Appendix H I	mplementing	Arrangement #1 of the	U.S. Depai	rtment of	Energy/Russian Aca	demy of sciences Memorandum of Understanding Actinide	e Speciation in the Environment to Support
Safety		Assessment of	Geologic Rep	positories and for the Re	mediation	of Conta	minated Sites		
Con	nment:								
566	489	5/15/2000	3/24/2004	Secondary DOE		518	Primary DOE	Environmental Restoration and Waste Management	DOE/RAS Implementing Arrangement 2
			, 0	t #2 Under the Memora ent and Advanced Mode			0	ted States Department of Energy and the Russian Academ	y of Sciences on Cooperation in Science and
Con	nment:								
589	489	6/2/2000	9/30/2003	Tertiary DOE		566	Secondary DOE	Civilian Radioactive Waste Management	Appendix C - Contaminant Transport Processes
in									Unsaturated Rocks
				Arrangement #2 of the scribing and Modeling (demy of Sciences Memorandum of Understanding Interdis urated Rocks	sciplinary Fundamental Research to Further
Con	nment:								
591 Contan	489 ninated	5/31/2000	9/30/2002	Tertiary DOE		566	Secondary DOE	Environmental Restoration and Waste Management	Appendix D- Annex A - Chara. Of
									Territories
Territo		Annex A of A	ppendix D Im	plementing Arrangeme	nt #2 of the	e U.S. De	partment of Energy/I	Russian Academy of Sciences Memorandum of Understand	ling Characterization of Contaminated
		Monitoring No	etwork Optim	ization, and Cost Minim	ization				
Con	nment:								
592 Assessi	489 ment	5/31/2000	9/30/2002	Tertiary DOE		566	Secondary DOE	Environmental Restoration and Waste Management	Appendix D - Annex B - Uncertainty
Davala		Annex B of A	ppendix D Im	plementing Arrangeme	nt #2 unde	r the DO	E-RAS Memorandun	n of Understanding Uncertainty Assessment Through Inco.	rporation of Mathematical Geology in
Develo		of Inverse Fla	ow and Trans	port Models					
Con	nment:								
605 Science	500 es	4/25/2001	4/25/2004	Secondary DOE		518	Primary DOE	Science and Technology	Appendix K w/ the Russian Academy of
		Appendix K U Technology	Inder Implem	enting Arrangement #1	of the Men	norandu	m of Understanding L	Between the U.S. Department of Energy and Russian Acad	emy of Sciences on Cooperation in Science and
Con	nment:								
606 #1w/	501	10/1/2000	10/1/2002	Secondary DOE		518	Primary DOE	Uranium Mass Transport Phenomena in Fractured	Appendix D of Implementing Arrangement
11 1 11								Welded Tuffs	Russian Academy of Sciences MOU
		Appendix D I Welded Tuffs	mplementing	Arrangement #1 of The	U.S. Depa	rtment oj	f Energy/Russian Acc	demy of Sciences Memorandum of Understanding Uraniu	um Mass Transport Phenomena in Fractured
Con	nment:								

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				••					
ID	File#	Start Date	End Date	Agreement Type	Legally Binding	Parent ID	Parent Type	Subject	Brief Description
52	302	3/18/1992		Statement of Intent			None	Information and/or Personnel Exchange	Electric Power Technologies
	Title:	U.SRussia 1	ask Force on	Cooperation in Electric	c Power Te	chnologi	es Joint Statement o	of Intent	
Сог	nment:	Exchange info	ormation on d	evelopments in the electr	ric power in	dustries	and encourage more	extensive contacts among experts in this field in both countr	es.
537	481	7/24/1998	7/24/2003	Intergovernmental			None	Arms Control and Nonproliferation	Plutonium Management
	Title:	Agreement be	etween the Go	vernment of the United	States of A	merica a	nd the Government	of the Russian Federation on Scientific and Technical Coo	peration in the Management of Plutonium that
has		been withdraw	vn from Nucle	ear Military Programs					
Сог	nment:		0	• •	nent establi	shes the	U.SRussian Joint St	teering Committee on Plutonium Management	
619 DOE a	514 and	6/30/2000	6/30/2005	Secondary DOE		607	Primary DOE	Civilian Radioactive Waste Management	Protocol extending the agreement between
	Title:		0 0	reement between the De ussian Nuclear Fuel Cyc			0	of America and the Federal Nuclear, and Radiation Safet	Russia y Authority of Russia for Cooperation on
Сог	nment:	Extending the	agreement m	ention above for five yea	ars until Jun	ie 30, 200	05.		
641 Radiat	536 tion	6/26/200	6/30/2005	Secondary DOE		607	Primary DOE	Arms Control and Nonproliferation	Extension bet. DOE federal Nuclear and
Co	Title: nment:			reement between the De counting of Nuclear Ma		f Eneryg	of the United States	of America and the Federal Nuclear and Radiation Safety	Safety Authority of Russia Authority of Russia to Cooperate on National
636 Dubna	531	4/23/2002		Statement of Intent			None	Science and Technology	Joint Statement of Intent between DOE and
		Joint Stateme	ent of Intent b	etween the Department	of Energy of	of the Un	nited States of Americ	ca and the Joint Institute for Nuclear Research at Dubna	
Со	nment:								
658	553	5/8/2002		Primary DOE			None	*Other - Purchases of Pu-238 for Peaceful Purposes	Purchases of Pu-238 for Peaceful Purposes
	Title:	Joint Annour	cement by th	e United States Departn	ient of Ene	rgy and i	the Russian Federati	ion Ministry for Atomic Energy Concerning Continued Put	rchases of Pu-238 for Peaceful Purposes
Сог	nment:								
659	554	7/16/2001	7/16/2006	Secondary DOE		210	Primary DOE	Civilian Radioactive Waste Management	Annex VI
				dum of Agreement betw of the Office of Civiliar				of America and the International Science and Technology	Center in the Russian Federation Concerning
Сог	nment:								

ID	File#	Start Date	End Date	Agreement Type	Legally Binding	Parent ID	Parent Type	Subject	Brief Description
Cou	ntry:	<u>Senegal</u>							
479	433	4/2/1998		Statement of Intent			None	Energy Research and Development	SOI - Energy R&D
	Title:	Memorandum	n of Understa	nding between the Repu	ublic of Sen	egal and	the United States of A	America for Cooperation on Energy Policy, Scier	nce and Technology, and Research and Development
Co	nment:								
516	462	3/19/1999	3/19/2004	Primary DOE			None	Energy Research and Development	Energy Policy, S and T, and R and D
		Agreement be Development	etween the De	partment of Energy and	l the Minist	ry of Ene	rgy, Mines and Indu	stry of the Republic of Senegal on Cooperation is	n Energy Policy, Science and Technology, Research and
Co	nment:	The objective	of this Agree	ment is to facilitate and e	establish coo	operative	activities by the Parti	es.	
	•	<u>South A</u>							
20	368			Intergovernmental			None	Nuclear Energy	Peaceful Uses of Nuclear Energy
		0 1	•		0		1 0	h Africa Concerning Peaceful Uses of Nuclear E	0.
Co	nment:			ent, use and control of pe was signed on 8/25/95 r					ational environment from radioactive, chemical and thermal
230	369	8/25/1995		Primary DOE			None	Energy Research and Development	Sustainable Energy Development Committee
	Title:	Terms of Refe	erence on the	Sustainable Energy De	velopment (Committe	e of the U.S South	Africa Binational Commission	
Co	nment:								
231	371	8/25/1995		Primary DOE			None	Energy Research and Development	Sustainable Development Resource Center
the	Title:	Memorandun	n of Understa	nding between the Worl	ld Wildlife I	Fund-Sou	th Africa, EarthKind	l International, U.S. Department of Energy and	U.S. Agency for International Development on Creating
ine		Sustainable D	evelopment R	esource Center					
Co								and programs on the use of renewable energy and d Intl (Jan Hartke) and USAID (Larry Byrne)	energy efficiency technologies and participation by
232 Techn	372 ologies	8/25/1995		Primary DOE			None	Energy Efficiency and Renewable Energy	Renewable and Energy Efficiency
	Title:	Memorandum	n of Understa	nding					
Co	nment:	Promotion of	renewable end	ergy and energy efficient	t technologi	es as a co	st-effective means of	increasing access to energy of the majority of Sou	th Africa disadvantaged population (w/USAID as a partner).
233	374	8/25/1995		Primary DOE			None	Energy Efficiency and Renewable Energy	Electrification of Rural Clinics (Cape Town)
	Title:	Memorandun	n of Understa	nding between Sandia N	National La	boratorie	s of Albuquerque Ne	w Mexico, USA and the Independent Developme	nt Trust Cape Town, Republic of South Africa
Co		Sandia Nation mutual consen	, 0	natory of this MOU, has	agreed to co	o-fund the	e Independent Develo	pment Trust model clinic electrification program	and to provide other technical assistance as agreed by

ID	File#	Start Date	End Date	Agreement Type	Legally Binding	Parent ID	Parent Type	Subject	Brief Description
234	381	12/5/1995	12/5/2000	Primary DOE	0		None	Energy Research and Development	Energy Policy, S&T and Development
234			Agreement	between the United State	es Departm			ment of Mineral and Energy Affairs of South Africa	
Сог	nment:							ent and commercialization activities in such areas as hnologies; and private power project development	fossil energy, including clean coal; energy planning,
55	423	8/25/1995		Statement of Intent			None	Information and/or Personnel Exchange	Energy Information Exchange
	Title:	Joint Stateme Information E		between the Department	of Energy of	of the Uni	ited States of Americ	an and the Department of Mineral and Energy Affa	iirs of the Republic of South Africa on an Energy
Со	nment:								
56	370	8/25/1995		Statement of Intent			None	Energy Research and Development	Energy Policy, S&T and Development
	Title:			between the Department nd Development	of Energy (of the Uni	ited States of Americ	an and the Department of Mineral and Energy Affa	iirs of the Republic of South Africa on Energy Policy,
Сог	nment:	Facilitate join	t activities rel	ated to energy policy, S&	&T, develop	ment and	commercialization in	n an environmentally and economically sound manne	er.
57	373	8/25/1995		Statement of Intent			None	Energy Efficiency and Renewable Energy	Renewable Energy (Guguletu Township)
	Title:			for Integrated Industrial uletu RDP Forum	/Education	al Develop	oment in Guguletu 1	Fownship between the United States Department of A	Energy, United States Department of Energy National
Сог	nment:	Establishment	of a light inc	lustrial part in Guguletu	Township.				
58	375	8/25/1995		Statement of Intent			None	Energy Efficiency and Renewable Energy	Renewable Energy (The Csir, South Africa)
	Title:			newable Energy Technol Republic of South Africa		en the No	ational Renewable E	Energy Laboratory, U.S.A. and Sandia national Lab	oratories, U.S.A. and the CSIR (Council for Scientific
Сог	nment:			g signatories of this State Witnessed by Secretary C		agreed to	exchange experience	e and views on opportunities for the appropriate utiliz	zation of renewable energy technologies with The Csir,
59	383	12/5/1995		Statement of Intent			None	Fossil Energy	Mitigation of Greenhouse Gases
	Title:	Statement of	Intent concer	ning Cooperation in Su	stainable E	nergy Dev	velopment and the M	litigation of Greenhouse gases between the Republi	c of South Africa and the United States of America
Сог	nment:	sinks in an env	vironmentally	feasibility of the develo sound and socially and on, restoration and enhance	economical	y equitabl	le fashion through de	ditional mitigation of climate change by addressing a ployment of greenhouse gas mitigation technologies	nthropogenic emissions by sources and removal by ; education/training programs; diversification of
60	382	12/5/1995		Statement of Intent			None	Energy Research and Development	South Africa/Provincial Gov'ts Cooperation Agreement - Statement of Intent
	Title:	Cooperative A	lgreement be	tween Provincial Govern	nments of t	he Republ	lic of South Africa o	n Regional Cooperation in Energy	

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

ID	File#	Start Date	End Date	Agreement Type	Legally Binding	Parent ID	Parent Type	Subject	Brief Description
Cou	ntry:	<u>Spain</u>							
100	404	9/15/1997	9/15/2007	Primary DOE			None	Environmental Safety Health	Research on Radiological Evaluations
		Implementing Radiological		nt between the Departmo	ent of Energ	gy of the	United States of Ame	erica and the Ministry of Industry and Energy of th	e Kingdom of Spain on Cooperation in Research on
Со	nment:								
307	404	9/15/1997	9/15/2007	Secondary DOE		100	Primary DOE	Environmental Safety Health	Annex 1
	Title:	Project Anne	x 1 - coopera	tion on research in radi	ological eva	luations			
Сог	nment:	Related to rad	lioactive wast	e management.					
5	171	12/12/198		Primary DOE			None	Science and Technology	Science & Technology
-			etween the Ur	2	of Energy a	nd the U		oint Committee for Scientific and Technological Co	
Сог		Establish resp	onsibilities, g	-			-	research proposals, projects and related activities in	-
596	491	7/15/2000	7/15/2006	Primary DOE			None	Energy Research and Development	MOU for Energy Cooperation
	Title:	Memorandun	n of Understa	unding Between The Mir	nistry of Sci	ence and	Technology of the K	Kingdom of Spain and The Department of Energy of	f the United States of America Concerning Cooperation
in		Energy							
Co	nment:	Litersy							
00									
Cou	ntry:	<u>Sweden</u>							
218	235 Title:	2/11/1988 <i>Subject and U</i>	U mbrella con t	Primary DOE tents are classified			None	*Other - Classified	Subject and Umbrella contents are classified
Сог	nment:	Description n	ot available ir	n History					
580	442	10/23/199	10/23/200	Primary DOE			None	Civilian Radioactive Waste Management	Radioactive Waste Management
500				-	of Energy a	and the S		č	Cooperative Program in the Field of Radioactive waste
		Management		······	- 3			······································	
Co	nment:								

Country: <u>Switzerland</u>

ID	File#	Start Date	End Date	Agreement Type	Legally Binding	Parent ID	Parent Type	Subject	Brief Description
225			12/23/200 tween the De	Primary DOE partment of Energy of th	he United S	States of .	None America and the Nati	Civilian Radioactive Waste Management ional Cooperative for the Disposal of Radioactive Waste in	Radioactive Waste Management Switzerland in the Field of Radioactive Waste
Con		Management Auto extension	n for 5 vr. Per	iods					
Con	iment.	Auto extension	II 101 5 yr. i ei	lous.					
Cou	ntry:	<u>Thailan</u>	<u>d</u>						
227	400	3/20/1997		Primary DOE			None	Arms Control and Nonproliferation	Lab-to-Lab arrangement
		United States			mation and	l for Coo	peration in the Field	of Peaceful Uses of Nuclear Energy between the Office of	Atomic Energy for Peace of Thailand and the
Con	nment:	Open ended.							
538 Report	400	3/6/2000		Secondary DOE		227	Primary DOE	Arms Control and Nonproliferation	Action Sheet 1 - Preliminary Safety Anaysis
	Title:	Action Sheet	l between the	Office of Atomic Energ	y for Peace	e of Thai	iland and the United S	States Department of Energy for Preliminary Safety Analys	sis Report Review
Con	nment:								
Com	n + wx .	Tunkan							
Cou	nury:	<u>Turkey</u>							
624	519	3/20/2002	3/20/2007	Primary DOE			None	Science and Technology	Cooperation in Energy Technology
Energy		Implementing	Arrangemen	nt between the Departme	nt of Energ	gy of the	United States of Ame	erica and the Ministry of Energy and Natural Resources of	the Republic of Turkey for Cooperation in
		Technology							
Con	nment:								
625	520	3/20/2002	3/20/2002	Secondary DOE		624	Primary DOE	Science and Technology	Annex 2 - Cooperation in the Field of Coal and Power Systems
				ng Arrangement betwee Coal and Power System		rtment o	f Energy of the Unite	d States of America and the Ministry of Energy and Natur	al Resources of the Republic of Turkey for
Con	nment:	<i>p</i>	· ···· - · ··· · · ·		-				
Cou	ntry:	<u>Ukraine</u>							
507	454	4/26/1996		Intergovernmental			None	*Other - Radioactive Waste	Chornobly Center
	Title:	Memorandum	ı of Understa	nding on Participation I	n and Sup	port of th	he Activities of the Int	ternational Chornobyl Center on Nuclear Safety, Radioacti	ve Waste and Radioecology
Con	nment:								

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ID	File#	Start Date	End Date	Agreement Type	Legally Binding	Parent ID	Parent Type	Subject	Brief Description
508	455	7/22/1998	7/22/2003	Intergovernmental	0		None	*Other - Radioactive Waste	Int'l Radioecology Lab
200				e	States of A	merica a		of Ukraine Concerning the International Radioecology La	
on	7	Nuclear Safety	Radioactiva	Waste and Radioecolo	av,				
Сог				e Executive Agent	57				
510	457	5/6/1998	5/4/2028	Intergovernmental			None	Nuclear Energy	US-Ukraine PNC
	Title:	Agreement fo	r Cooperation	n between the United St	ates of Ame	rica and	Ukraine Concerning	Peaceful Uses of Nuclear Energy	
Сог	nment:								
54	330	4/8/1994		Statement of Intent			None	Nuclear Energy	Shutdown Chernobyl Nuclear Power Plant
	Title:	Joint Stateme	nt About Pati	hs to the Soonest Possib	le Shutdow	n of the	Chernobyl Nuclear F	Power Plant	
Cor	nment:	Undertake nea	r-term joint a	nalysis of options for ea	rliest possib	le closu	e of the Chernobyl po	ower plant.	
Cou	ntry:	<u>United K</u>	<u>Kingdom</u>						
41	364	7/25/1995		Statement of Intent			None	Environmental Restoration and Waste Management	Nuclear Clean-Up
	Title:	Heads of Agro	eement for Co	poperation Between the	United Stat	tes Depa	rtment of Energy and	the United Kingdom Department of Trade and Industry of	on their Perspective Program for Nuclear Clean-
up		a							
Cor	nment:	Cooperate, thr	ough sharing	of information, on simil	ar issues as	sociated	with nuclear decomm	issioning and clean-up	
42 Manag	390 ement	9/5/1996		Statement of Intent			None	Environmental Restoration and Waste Management	Environmental Restoration and Waste
Wanag		Statement of 1	ntent betwee	n the United States Dep	artment of	Energy a	and the United Kingd	om Department of Trade and Industry	
Сог	nment:	Establish fram	ework for coo	operation in R&D of tech	hnologies fo	or the trea	atment, packaging, di	sposal of aluminum-based spent nuclear fuel.	
598	493	11/6/2000	11/6/2010	Primary DOE			None	Energy Research and Development	MOU on Energy Research and Development
		Memoruandu	m of Underst	anding Between The De	epartment o	f Energy	of the United States	of America and The Department of Trade and Industry o	f the United Kingdom of Great Britain and
North		Ireland on Co	llaboration i	n Energy Research and	Develonme	nt			
Сог					•		e Energy and the was	ste-related management and the environment.	
634	529	11/17/200	1	Secondary DOE	5,	598	Primary DOE	Environmental Management	AEA Technology plc
054				5	ent of Ener		5	erica and AEA Technology plc Under the Memorandum o	
								dustry of the United Kingdom of Great Britain and North	
Сог	nment:								

			0						
ID	File#	Start Date	End Date	Agreement Type	Legally Binding	Parent ID	Parent Type	Subject	Brief Description
611 Trade	506	9/17/2001	9/17/2006	Primary DOE			None	Nuclear Verification Technologies	MOU between DOE and the Department of
Trade	anu								Industry of the United Kingdom
	Title:			nding between the Depo velopment and Impleme				f America and the Department of Trade and Industry o ogies	
Cor	nment:		5		,		5		
637 Creat	532	7/25/2002	7/25/2007	Primary DOE			None	Science and Technology	Implementing Agreement between DOE and
Great									Britain
for	Title:	Implementing	g Arrangemen	nt between the Departmo	ent of Energ	gy of the U	United States of Am	erica and the Secretary of State for Defence of the Un	ited Kingdom of Great Britain and Northern Ireland
J		Cooperation in	n Research ar	nd Development of Che	nical and B	Biological	Weapons Detection	and Protection-Related Technologies	
Cor	nment:								
638 Great	533	7/3/2002	7/3/2007	Primary DOE			None	Science and Technology	Gov't to Gov't agreement between US and
Great									Britain
		Agreement be	etween the Go	wernment of the United	States of A	merica an	nd the Government	of the United Kingdom of Great Britain and Northern	Ireland for Cooperation in Research and
Develo		of Weapons D	etection and	Protection-Related Tech	nologies				
Cor	nment:	• j // •• r •• r ••							
652	547	2/10/2002	2/10/2008				None	Fossil Energy	Comparation in the Field of Ferry
652		3/10/2003		Primary DOE	out of Fuar			FOSSIL Energy erica and the Department of Trade and Industry of the	Cooperation in the Field of Fossil Energy
	Thie.			Field of Fossil Energy			Shitea Shites of Am	erica ana ine Department of Trade and Thausary of the	e Onneu Kinguom of Orear Draam and Hormern
Cor	nment:								
143	278	6/11/1990	6/11/2000	Primary DOE			None	Energy Research and Development	Energy R&D
	Title:	Memorandun research and d	-	nding between the U.S.	Departmen	t of Energ	y and the Departmo	ent of energy of the United Kingdom of Great Britain o	und Northern Ireland on collaboration in energy
Con	nment:	To continue an	nd maximize	cooperation in energy re	search and	developm	ent.		
Cou	ntry:	<u>Uzbekist</u>	tan_						
628 Techno	523 ologies	3/12/2002		Primary DOE			None	Arms Control and Nonproliferation	Proliferation of Nuclear Materials and
	Title:			partment of Energy of t aterials and Technologi		States of A	merica and the Mi	nistry of Foreign Affairs of the Republic of Uzbekistan	Concerning Cooperation in the area of Prevention of
Cor	nment:	0	<i>y</i> 1 mercur 1910	aner mis una reennologi					

Comment:

ID	File#	Start Date	End Date	Agreement Type	Legally Binding	Parent ID	Parent Type	Subject	Brief Description
Cou	ntry	: <u>Venezue</u>	<u>ela</u>						
228	408	10/13/199		Primary DOE			None	Energy Research and Development	Energy Cooperation
		0 1	0.			of Energy	of the United States	of America and the Ministry of Energy and Mi	nes of the Republic of Venezuela
Con	nment:	Supersedes the	e March 6, 19	980 Energy R&D agreen	nent				
443	73	7/10/1980	10/13/200	Secondary DOE		228	Primary DOE	Fossil Energy	Project Annex 1 - Crude Characterization
	Title:	Project Annex	x I between th	he Department of Energ	y of the Uni	ited State	s of America and the	e Ministry of Energy and Mines of Venezuela fo	r the Joint Characterization of Heavy Crude Oils
Con	nment:	Exchange pub	lished technic	cal information and joint	tly modify o	r develop	new techniques for t	he characterization of heavy crude oil and heavy	ends.
444 Therm	82 al	9/29/1980	10/13/200	Secondary DOE		228	Primary DOE	Fossil Energy	Project Annex 4 - Enhanced Oil Recovery
Therm	ui								Processes
Therm		Project Annex	x IV between	the Department of Ener	rgy of the U	nited Sta	tes of America and t	he Ministry of Energy and Mines of the Republi	ic of Venezuela in the Area of Enhanced Oil Recovery
1		Process							
Con	nment:	Cooperate in t processes are c	11	n of additives to steam in	njection for t	the recov	ery of heavy oil there	by further efforts on the understanding of the the	rmal processes and the reservoir and its fluids where these
445 Engine	137 eers	3/14/1984	10/13/200	Secondary DOE		228	Primary DOE	Fossil Energy	Project Annex 10 - Training of Petroleum
	Title:	Project Annex	x X between t	the Department of Energy	gy of the Un	ited Stat	es of America and th	e Ministry of Energy and Mines of the Republic	of Venezuela for On-Site Training of Petroleum Engineers
Con	nment:	Training of Ve	enezuelan pet	roleum engineers at Elk	s Hills Nava	l Petrolei	m Facility.		
446 Relate	264	2/16/1989	10/13/200	Secondary DOE		228	Primary DOE	Fossil Energy	Project Annex 14 - Exchange of Energy-
Relates	u								Personnel
	Title:	Project Annex	x XIV betwee	n the Department of En	ergy of the	United S	tates of America and	the Ministry of Energy and Mines of the Repub	blic of Venezuela for the Exchange of Energy-Related
Con	nment:	DOE and MEI	MV shall coo	perate in using their goo	d offices an	d taking a	Ill reasonable steps to	facilitate the exchange of energy-related person	nel between Venezuela and the U.S. in the areas of fossil
447	333	4/26/1994	10/13/200	Secondary DOE		228	Primary DOE	Fossil Energy	Project Annex 15 - Oil Recovery Information
and									Tech. Transfer
	Title:			XV to the Memorandun Oil Recovery Informatio				ent of Energy of the United States of America an	nd the Ministry of Energy and Mines of the Republic of
				on Accorery injorman	on ana recn	inology I	ransfer"		

ID	File#	Start Date	End Date	Agreement Type	Legally Binding	Parent ID	Parent Type	Subject	Brief Description
499	448	8/15/1995	10/13/200	Secondary DOE		228	Primary DOE	Fossil Energy	Annex 16 - Oil and Petrochemical Ecology and Environmental Research
				XVI to the Memorandur il and Petrochemistry E				nent of Energy of the United States of America and the	e Ministry of Energy and Mines of the Republic of
Con	nment:	Information ex	xchange, biot	echnology update and an	alysis of ind	dustrial a	and environmental tre	nds.	
500	449	9/7/1995	10/13/200	Secondary DOE		228	Primary DOE	Fossil Energy	Annex 17 - Drilling Technology
	Title:		•	XVII to the Memorandu rilling Technology	m of Under	rstandinį	g between the Depart	ment of Energy of the United States of America and th	e Ministry of Energy and Mines of the Republic of
Con	nment:	Exchange info	ormation and	training of personnel on	drilling tech	nologies	for more efficient ar	nd cost-effective methods drilling.	
633 Techno	528 ologies	8/9/2001	8/9/2006	Secondary DOE		228	Primary DOE	Fossil Energy	Project Annex No. XVIII - Natural Gas
				o the Agreement for En he area of Natural Gas T			etween the Departme	nt of Energy of the United States of America and the N	Iinistry of Energy and Mines of the Bolivarian

Comment:

United States Department of Energy Agreement Listing

Listing of Agreements Under the Aegis of: IEA

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

United States Department of Energy Agreement Listing

Listing of Agreements Under the Aegis of: IEA

Exp Date	DOE Office	Agreement #	Title
1/1/2050	EE	000049	International Energy Agency Implementing Agreement for a Program of Research and Development on Energy Conservation in Buildings and Community Systems
1/1/2050	EE	000053	International Energy Agency Implementing Agreement for Pulp and Paper Industry
1/1/2050	EE	000055	International Energy Agency Alcohol and Alcohol Blends as Motor Fuel (Umbrella Agreement) including Annex 1: A Common Study
1/1/2050	EE	000058	International Energy Agency Implementing Agreement for Program on Bioenergy Research and Development
1/1/2050	ER	000107	International Energy Agency Implementing Agreement for a Program of Research and Development on Superconducting Magnets for Fusion Power
7/31/95	ER	000108	International Energy Agency Implementing Agreement on a Cooperative Fusion Program for the Investigation of Toroidal Physics in, and Plasma Technologies of, Tokomaks with Poloidal Divertors
7/31/95	ER	000109	International Energy Agency Implementing Agreement - Annex I: Joint Fusion Work on the Investigation of Toroidal Physics and Plasma Technologies in Asdex- Upgrade
12/31/97	ER	000110	International Energy Agency Implementing Agreement for Fusion Program of R&D on Plasma Wall Interaction in Textor
10/21/94	ER	000115	International Energy Agency Implementing Agreement for Program of R&D on Radiation Damage in Fusion Materials
10/21/95	ER	000116	International Energy Agency Implementing Agreement for Program of R&D on Radiation Damage on Fusion Materials - Annex 2: Experimentation on Radiation Damage in Fusion Materials
1/14/96	ER	000118	International Energy Agency Implementing Agreement on Fusion Cooperation Among the Three Large Tokomak Facilities (JET, JT-60, and TFTR)

United States Department of Energy Agreement Listing

Listing of Agreements Under the Aegis of: IEA

Exp Date	DOE Office	Agreement #	Title
4/2/2000	ER	000119	International Energy Agency Implementing Agreement - Annex 2: Joint Fusion Work on the Investigation of Plasma Confinement Physics and Technology in Reversed Field Pinches (RFP)
4/2/2000	ER	000123	International Energy Agency Implementing Agreement for a Fusion Program of R&D on Reversed Field Pinches (RFP)
4/2/2000	ER	000124	International Energy Agency Annex 1: Coordination of Fusion R&D Work on Research Field Pinches (RFP)
7/6/97	ER	000266	International Energy Agency Implementing Agreement on a Cooperative Program on Environmental Safety and Economic Aspects of Fusion Power
1/1/2050	FE	000154	International Energy Agency Coal Research Service Center Project
1/1/2050	FE	000159	International Energy Agency Implementing Agreement for Performance of Research, Development and Demonstration on Enhanced Recovery of Oil
1/1/2049	FE	000181	International Energy Agency Implementing Agreement for Program of Research on Coal Liquid Mixtures
6/21/90 6/20/95			International Energy Agency Implementing Agreement for Cooperative Programme for Assessing the Impacts of High- Temperature Superconductivity on the Electric Power Sector

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

Term of Agreement	Countries	Type of Agreement	Agreement Subject Area	DOE Record #	
			cascading		
3/16/77 Indefinite	Canada, Germany (unified), Italy, Japan, Norway, Sweden, Switzerland, United Kingdom	Annex	Combustion system modeling and diagnostics	33	
6/28/77 4/00/97	Germany, Netherlands, Norway, Sweden, Switzerland, United Kingdom	Implementing/ project, annex	Energy conservation in heat transfer and heat exchangers	26	
10/6/77 12/31/96	Germany, Israel, Spain, Switzerland	Implementing/ project, annexes	Solar power and chemical energy systems		
10/6/77 12/31/97	Canada, Commission of the Euratom, Japan, Switzerland, Implementing/ Turkey		Fusion energy, plasma wall interaction in Textor	110	
10/6/77 Indefinite	Germany, Japan, Sweden, Switzerland, United Kingdom	Implementing/ project, annex	Man-made geothermal energy systems		
10/6/77 Indefinite	Austria, Canada, Denmark, Germany (unified), Italy, Japan, Netherlands, New Zealand, Norway, Spain, Sweden, United Kingdom	Implementing/ project, annexes	Wind turbine systems	30	
10/6/77 Indefinite	Germany (unified), Japan, Switzerland	Implementing/ project, annex	Superconducting magnets for fusion power	107	
10/6/77 Indefinite	Belgium, Canada, EEC, Germany, Italy, Japan, Netherlands, Sweden, SwitzerlandImplementing/ project, annexesProduction of hydrogen from w		Production of hydrogen from water	18	
4/00/78 Indefinite	Belgium, Canada, Ireland, Sweden	Implementing/ project, annex			
4/13/78 Indefinite	Canada, Ireland, Japan, United Kingdom	Implementing/ project, annex	Wave power R&D		
5/24/78 Indefinite	Belgium, Ireland, Sweden, United Kingdom	gdom Implementing/ project, Biomass conversion technical information service		58	
7/27/78 Indefinite	Germany, New Zealand, Sweden, United Kingdom Implementing/ project, annex Energy conservation in cement manufacture				
7/27/78 Indefinite	Austria, Belgium, Canada, Denmark, Germany (unified), Italy, Japan, Netherlands, Spain, Sweden, Switzerland, United KingdomImplementation project		Advanced heat pump systems	39	
9/22/78 Indefinite	Belgium, EEC, Denmark, Germany, Netherlands, Sweden, Switzerland Energy conservation through energy storage			60	
1/1/79 Indefinite	Canada, Venezuela	Other	Heavy crude and tar sands	160	

Term of Agreement	Countries	Type of Agreement	Agreement Subject Area	DOE Record #	
5/22/79 6/30/97	Germany, Japan, Sweden	Implementing/ project, annexes	High temperature materials for automotive engines		
5/22/79 Indefinite	Australia, Austria, Canada, Denmark, Egypt, France, Germany, Japan, Norway, United Kingdom	Implementing/ project, annex	Enhanced recovery of oil	159	
5/22/79 Indefinite	Italy, Mexico, New Zealand	Implementing/ project, annex	Geothermal equip- ment		
10/21/80 10/21/94	Canada, EEC, Japan, Switzerland	Ongoing Agreement	Radiation Damage in Fusion Materials	115	
11/13/80 Indefinite	Australia, Belgium, Denmark, EEC, Germany, Italy, Norway, Sweden, Switzerland	Implementing/ project, annexes	Energy technology systems analysis	268	
2/18/81 Indefinite	Belgium, Canada, Japan, Netherlands, Norway, Spain, Sweden, United Kingdom	Implementing/ project, annexes	Energy conservation in the pulp and paper industry	53	
1/1/81 1/1/2049	Canada, Japan, Netherlands, Spain, Sweden, United Kingdom Implementing/ Coal/oil liquid mixtures				
12/17/82 Indefinite	Commission of the Euratom Letters of Cooperation: Information Exchange Renewable energy sources		•••	277	
12/31/84 Indefinite	Belgium, Canada, Finland, France, Italy, Japan, Netherlands, New Zealand, Norway, Sweden, United Kingdom	Implementing/ project, annexes	Alternative motor fuels	55	
3/27/85 Indefinite	Australia, Canada, Denmark, Finland, Germany, Italy, Netherlands, Sweden, United KingdomCoal Combustion Sciences			136	
12/15/86 12/15/96	Commission of the Euratom Magnetic fusion power system			103	
1/26/87 Indefinite	Canada, Denmark, Finland, France, Germany, Italy, Japan, Netherlands, Norway, Spain, Sweden, Switzerland, United Kingdom			3	
3/15/87 3/15/93	Canada, Norway, United Kingdom Ongoing Agreement Fossil Fuel Multiphase Flow Sciences		174		
3/18/88 3/18/98	Australia, Belgium, Canada, Denmark, Finland, Italy, Japan, Korea, Netherlands, New Zealand, Norway, Sweden, Switzerland, United KingdomImplementing/ project, annexesInformation Center for the Analysis and Dissemination of Demonstrated Energy Technologies (CADDET)		44		
1/1/89 Indefinite	Austria, Belgium, Canada, Denmark, Finland, Ireland, Italy, Japan, New Zealand, Norway, Sweden, United Kingdom	aly, Japan, New Zealand, Norway, Sweden, United project, annex and development		58	
4/3/90	Commission of the Euratom, Japan	sion of the Euratom, Japan Implementing/ Fusion Energy/			

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

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