

Annex

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Note: Tables A27–A32 are available on the attached CD-ROM.

Table A1. Regular Budget allocation and utilization of resources in 2016 by Programme and Major Programme (in euros)

Major Programme (MP)/Programme	Original budget US \$1/€1	Adjusted budget US \$1/€0.903	Expenditure	Resource utilization	Unobligated balances
	a	b	c	d = c/b	e = b - c
MP1 — Nuclear Power, Fuel Cycle and Nuclear Science					
Overall management, coordination and common activities	3 202 953	3 154 150	3 133 881	99.4%	20 269
Nuclear Power	8 537 033	8 402 334	8 293 146	98.7%	109 188
Nuclear Fuel Cycle and Materials Technologies	6 815 074	6 713 899	6 300 138	93.8%	413 761
Capacity Building and Nuclear Knowledge for Sustainable Energy Development	10 233 234	10 093 501	9 656 162	95.7%	437 339
Nuclear Science	10 121 270	10 015 140	9 639 283	96.2%	375 857
Total Major Programme 1	38 909 564	38 379 024	37 022 610	96.5%	1 356 414
MP2 — Nuclear Techniques for Development and Environmental Protection					
Overall management, coordination and common activities	7 785 318	7 727 917	7 738 552	100.1%	(10 635)
Food and Agriculture	11 433 333	11 310 005	11 291 151	99.8%	18 854
Human Health	8 276 608	8 176 958	8 118 221	99.3%	58 737
Water Resources	3 466 371	3 428 407	3 422 642	99.8%	5 765
Environment	6 275 597	6 200 703	6 232 962	100.5%	(32 259)
Radioisotope Production and Radiation Technology	2 250 108	2 226 852	2 008 045	90.2%	218 807
Total Major Programme 2	39 487 335	39 070 842	38 811 573	99.3%	259 269
MP3 — Nuclear Safety and Security					
Overall management, coordination and common activities	3 988 447	3 927 526	3 691 233	94.0%	236 293
Incident and Emergency Preparedness and Response	4 250 797	4 194 055	4 103 582	97.8%	90 473
Safety of Nuclear Installations	10 261 763	10 084 677	9 957 361	98.7%	127 316
Radiation and Transport Safety	7 168 211	7 048 076	7 078 119	100.4%	(30 043)
Management of Radioactive Waste	3 668 294	3 608 775	3 349 314	92.8%	259 461
Nuclear Security	5 384 357	5 288 729	5 084 949	96.1%	203 780
Total Major Programme 3	34 721 869	34 151 838	33 264 558	97.4%	887 280
MP4 — Nuclear Verification					
Overall management, coordination and common activities	13 919 282	13 757 229	13 298 352	96.7%	458 877
Safeguards Implementation	113 183 014	111 568 504	110 918 802	99.4%	649 702
Other Verification Activities	451 642	442 320	471 278	106.5%	(28 958)
Development	7 473 122	7 325 404	8 275 648	113.0%	(950 244)
Total Major Programme 4	135 027 060	133 093 457	132 964 080	99.9%	129 377
MP5 — Policy, Management and Administration Services					
Policy, Management and Administration Services	78 611 528	77 872 617	74 862 397	96.1%	3 010 220
Total Major Programme 5	78 611 528	77 872 617	74 862 397	96.1%	3 010 220
MP6 — Management of Technical Cooperation for Development					
Management of Technical Cooperation for Development	24 536 684	24 183 701	23 368 093	96.6%	815 608
Total Major Programme 6	24 536 684	24 183 701	23 368 093	96.6%	815 608
Total Operational Regular Budget	351 294 040	346 751 479	340 293 311	98.1%	6 458 168
Major Capital Investment Funding Requirements					
MP1 — Nuclear Power, Fuel Cycle and Nuclear Science	—	—	—	—	—
MP2 — Nuclear Techniques for Development and Environmental Protection	2 489 920	2 489 920	—	—	2 489 920
MP3 — Nuclear Safety and Security	301 200	301 200	156 736	52.0%	144 464
MP4 — Nuclear Verification	1 204 800	1 204 800	1 093 829	90.8%	110 971
MP5 — Policy, Management and Administration Services	4 036 080	4 036 080	2 126 853	52.7%	1 909 227
MP6 — Management of Technical Cooperation for Development	—	—	—	—	—
Total Capital Regular Budget	8 032 000	8 032 000	3 377 418	42.0%	4 654 582
Total Agency Programmes	359 326 040	354 783 479	343 670 729	96.9%	11 112 750
Reimbursable work for others	2 673 748	2 673 748	3 013 013	112.7%	(339 265)
Total Regular Budget	361 999 788	357 457 227	346 683 742	97.0%	10 773 485

Column a: General Conference resolution GC (59)/RES/5 of September 2015 original budget at US \$1/€1.

Column b: Original budget revalued at the United Nations operational average rate of exchange of €0.903 to US \$1 in 2016.

Table A2. Extrabudgetary regular programme fund resource utilization in 2016 by Programme and Major Programme (in euros)

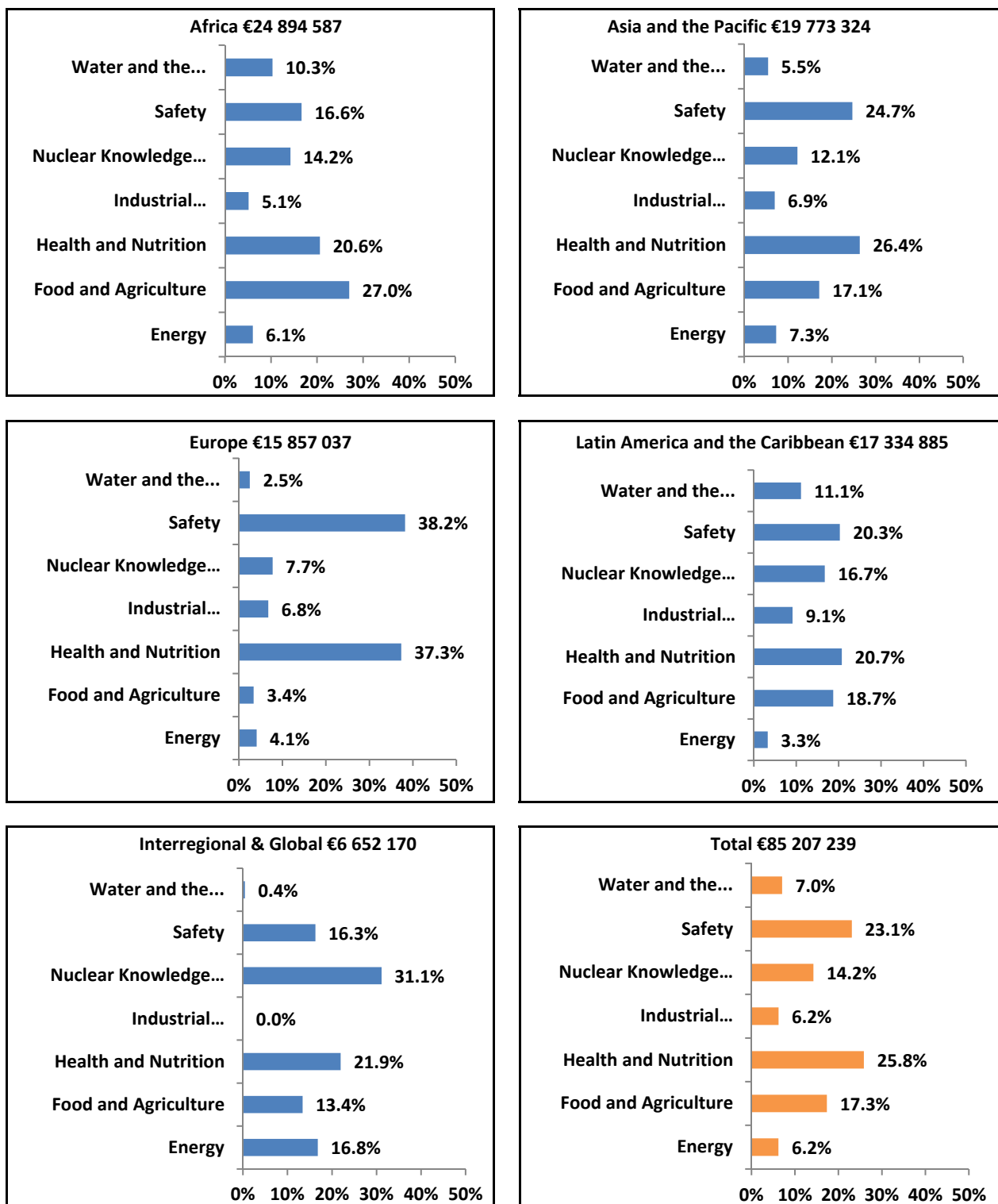
Major Programme (MP)/Programme	2016 expenditure
MP1 — Nuclear Power, Fuel Cycle and Nuclear Science	
Overall management, coordination and common activities	61 207
Nuclear Power	3 199 729
Nuclear Fuel Cycle and Materials Technologies	4 531 352
Capacity Building and Nuclear Knowledge for Sustainable Energy Development	669 595
Nuclear Science	1 397 277
Total Major Programme 1	9 859 160
MP2 — Nuclear Techniques for Development and Environmental Protection	
Overall management, coordination and common activities	4 105 228
Food and Agriculture	3 681 364
Human Health	591 452
Water Resources	9 089
Environment	2 018 585
Radioisotope Production and Radiation Technology	—
Total Major Programme 2	10 405 718
MP3 — Nuclear Safety and Security	
Overall management, coordination and common activities	4 841 387
Incident and Emergency Preparedness and Response	352 039
Safety of Nuclear Installations	5 449 433
Radiation and Transport Safety	2 215 027
Management of Radioactive Waste	1 096 981
Nuclear Security	31 536 668
Total Major Programme 3	45 491 535
MP4 — Nuclear Verification	
Overall management, coordination and common activities	1 284 153
Safeguards Implementation	15 713 020
Other Verification Activities	—
Development	12 417 562
Total Major Programme 4	29 414 735
MP5 — Policy, Management and Administration Services	
Policy, Management and Administration Services	1 112 457
Total Major Programme 5	1 112 457
MP6 — Management of Technical Cooperation for Development	
Management of Technical Cooperation for Development	91 685
Total Major Programme 6	91 685
Total extrabudgetary programme funds	96 375 290

Table A3(a). Disbursements (actuals) of the Technical Cooperation Fund by technical field and region in 2016

Summary of all regions (in euros)							
Technical field	Africa	Asia and the Pacific	Europe	Latin America and the Caribbean	Global/interregional	PACT ^a	Total
Energy	1 508 657	1 438 115	645 324	568 541	1 117 775		5 278 412
Food and Agriculture	6 714 778	3 386 397	536 653	3 246 657	891 005		14 775 490
Health and Nutrition	5 133 015	5 216 606	5 920 488	3 596 599	1 459 023	695 237	22 020 967
Industrial Applications/ Radiation Technology	1 281 454	1 372 692	1 071 689	1 583 368			5 309 203
Nuclear Knowledge Development and Management	3 540 060	2 398 542	1 227 151	2 898 518	2 071 928		12 136 199
Safety	4 143 475	4 883 059	6 058 775	3 513 783	1 082 958		19 682 049
Water and the Environment	2 573 148	1 077 913	396 957	1 927 420	29 482		6 004 920
Total	24 894 587	19 773 324	15 857 037	17 334 885	6 652 170	695 237	85 207 239

^a PACT: Programme of Action for Cancer Therapy.

Table A3(b). Graphical representation of the Technical Cooperation Fund disbursement information in Table A3(a)



Note: See Table A3(a) for the full titles of the technical fields.

Table A4. Amount of nuclear material under Agency safeguards at the end of 2016 by type of agreement

Nuclear material	Comprehensive safeguards agreement ^a	INFCIRC/66-type agreement	Voluntary offer agreement	Quantity in significant quantities (SQs)
Plutonium ^b contained in irradiated fuel and in fuel elements in reactor cores	134 615	2 381	19 218	156 214
Separated plutonium outside reactor cores	1 412	5	10 656	12 073
High enriched uranium (equal to or greater than 20% U-235)	179	2	0	181
Low enriched uranium (less than 20% U-235)	18 998	248	1 609	20 855
Source material ^c (natural and depleted uranium and thorium)	10 619	650	3 463	14 732
U-233	18	0	0	18
Total SQs of nuclear material	165 841	3 286	34 946	204 073

Amount of heavy water under Agency safeguards at the end of 2016 by type of agreement

Non-nuclear material ^d	Comprehensive safeguards agreement	INFCIRC/66-type agreement	Voluntary offer agreement	Quantity in tonnes
Heavy water (tonnes)		432.0		432.7^e

^a Includes nuclear material under Agency safeguards in Taiwan, China; excludes nuclear material in the Democratic People's Republic of Korea.

^b The quantity includes an estimated amount (10 000 SQs) of plutonium in fuel elements loaded into reactor cores and plutonium in other irradiated fuel, which has not yet been reported to the Agency under agreed reporting procedures.

^c This table does not include material within the terms of subparagraphs 34(a) and 34(b) of INFCIRC/153 (Corrected).

^d Non-nuclear material subject to Agency safeguards under INFCIRC/66/Rev.2-type agreements.

^e Includes 0.7 tonnes of heavy water under Agency safeguards in Taiwan, China.

Table A5. Number of facilities and material balance areas outside facilities under Agency safeguards during 2016

Type	Comprehensive safeguards agreement ^a	INFCIRC/66-type agreement	Voluntary offer agreement	Total
Power reactors	236	12	1	249
Research reactors and critical assemblies	148	3	1	152
Conversion plants	18	0	0	18
Fuel fabrication plants	41	2	1	44
Reprocessing plants	9	0	1	10
Enrichment plants	16	0	3	19
Separate storage facilities	130	2	4	136
Other facilities	81	0	0	81
Facility subtotals	679	19	11	709
Material balance areas containing locations outside facilities ^b	580	1	0	581
Total	1259	20	11	1290

^a Includes facilities in Taiwan, China; excludes facilities in the Democratic People's Republic of Korea.

^b Includes 56 material balance areas in States with amended small quantities protocols.

Table A6. Conclusion of safeguards agreements, additional protocols and small quantities protocols (as of 31 December 2016)

State ^a	Small quantities protocols ^b	Safeguards agreements ^c	INFCIRC	Additional protocols
Afghanistan	Amended: 28 Jan. 2016	In force: 20 Feb. 1978	257	In force: 19 July 2005
Albania ¹		In force: 25 March 1988	359	In force: 3 Nov. 2010
Algeria		In force: 7 Jan. 1997	531	Approved: 14 Sept. 2004
Andorra	Amended: 24 April 2013	In force: 18 Oct. 2010	808	In force: 19 Dec. 2011
Angola	In force: 28 April 2010	In force: 28 April 2010	800	In force: 28 April 2010
Antigua and Barbuda ²	Amended: 5 March 2012	In force: 9 Sept. 1996	528	In force: 15 Nov. 2013
Argentina ³		In force: 4 March 1994	435	
Armenia		In force: 5 May 1994	455	In force: 28 June 2004
Australia		In force: 10 July 1974	217	In force: 12 Dec. 1997
Austria ⁴		Accession: 31 July 1996	193	In force: 30 April 2004
Azerbaijan	Rescinded: 15 July 2015	In force: 29 April 1999	580	In force: 29 Nov. 2000
Bahamas ²	Amended: 25 July 2007	In force: 12 Sept. 1997	544	
Bahrain	In force: 10 May 2009	In force: 10 May 2009	767	In force: 20 July 2011
Bangladesh		In force: 11 June 1982	301	In force: 30 March 2001
Barbados ²	X	In force: 14 Aug. 1996	527	
Belarus		In force: 2 Aug. 1995	495	Signed: 15 Nov. 2005
Belgium		In force: 21 Feb. 1977	193	In force: 30 April 2004
Belize ⁵	X	In force: 21 Jan. 1997	532	
<i>Benin</i>	<i>Amended: 15 April 2008</i>	<i>Signed: 7 June 2005</i>		<i>Signed: 7 June 2005</i>
Bhutan	X	In force: 24 Oct. 1989	371	
Bolivia, Plurinational State of ²	X	In force: 6 Feb. 1995	465	
Bosnia and Herzegovina		In force: 4 April 2013	851	In force: 3 July 2013
Botswana		In force: 24 Aug. 2006	694	In force: 24 Aug. 2006
Brazil ⁶		In force: 4 March 1994	435	
Brunei Darussalam	X	In force: 4 Nov. 1987	365	
Bulgaria ⁷		Accession: 1 May 2009	193	Accession: 1 May 2009
Burkina Faso	Amended: 18 Feb. 2008	In force: 17 April 2003	618	In force: 17 April 2003

State ^a	Small quantities protocols ^b	Safeguards agreements ^c	INFCIRC	Additional protocols
Burundi	In force: 27 Sept. 2007	In force: 27 Sept. 2007	719	In force: 27 Sept. 2007
<i>Cabo Verde</i>	<i>Amended: 27 March 2006</i>	<i>Signed: 28 June 2005</i>		<i>Signed: 28 June 2005</i>
Cambodia	Amended: 16 July 2014	In force: 17 Dec. 1999	586	In force: 24 April 2015
Cameroon	X	In force: 17 Dec. 2004	641	In force: 29 Sept. 2016
Canada		In force: 21 Feb. 1972	164	In force: 8 Sept. 2000
Central African Republic	In force: 7 Sept. 2009	In force: 7 Sept. 2009	777	In force: 7 Sept. 2009
Chad	In force: 13 May 2010	In force: 13 May 2010	802	In force: 13 May 2010
Chile ⁸		In force: 5 April 1995	476	In force: 3 Nov. 2003
China		In force: 18 Sept. 1989	369*	In force: 28 March 2002
Colombia ⁸		In force: 22 Dec. 1982	306	In force: 5 March 2009
Comoros	In force: 20 Jan. 2009	In force: 20 Jan. 2009	752	In force: 20 Jan. 2009
Congo	In force: 28 Oct. 2011	In force: 28 Oct. 2011	831	In force: 28 Oct. 2011
Costa Rica ²	Amended: 12 Jan. 2007	In force: 22 Nov. 1979	278	In force: 17 June 2011
Côte d'Ivoire		In force: 8 Sept. 1983	309	In force: 5 May 2016
Croatia	Amended: 26 May 2008	In force: 19 Jan. 1995	463	In force: 6 July 2000
Cuba ²		In force: 3 June 2004	633	In force: 3 June 2004
Cyprus ⁹		Accession: 1 May 2008	193	Accession: 1 May 2008
Czech Republic ¹⁰		Accession: 1 Oct. 2009	193	Accession: 1 Oct. 2009
Democratic Republic of the Congo		In force: 9 Nov. 1972	183	In force: 9 April 2003
Denmark ¹¹		In force: 1 March 1972 In force: 21 Feb. 1977	176 193	In force: 22 March 2013 In force: 30 April 2004
Djibouti	In force: 26 May 2015	In force: 26 May 2015	884	In force: 26 May 2015
Dominica ⁵	X	In force: 3 May 1996	513	
Dominican Republic ²	Amended: 11 Oct. 2006	In force: 11 Oct. 1973	201	In force: 5 May 2010
Democratic People's Republic of Korea		In force: 10 April 1992	403	
Ecuador ²	Amended: 7 April 2006	In force: 10 March 1975	231	In force: 24 Oct. 2001
Egypt		In force: 30 June 1982	302	
El Salvador ²	Amended: 10 June 2011	In force: 22 April 1975	232	In force: 24 May 2004
<i>Equatorial Guinea</i>	<i>Approved: 13 June 1986</i>	<i>Approved: 13 June 1986</i>		

State ^a	Small quantities protocols ^b	Safeguards agreements ^c	INFCIRC	Additional protocols
<i>Eritrea</i>				
Estonia ¹²		Accession: 1 Dec. 2005	193	Accession: 1 Dec. 2005
Ethiopia	X	In force: 2 Dec. 1977	261	
Fiji	X	In force: 22 March 1973	192	In force: 14 July 2006
Finland ¹³		Accession: 1 Oct. 1995	193	In force: 30 April 2004
France	X	In force: 12 Sept. 1981 In force: 26 Oct. 2007 ¹⁴	290* 718	In force: 30 April 2004
Gabon	Amended: 30 Oct. 2013	In force: 25 March 2010	792	In force: 25 March 2010
Gambia	Amended: 17 Oct. 2011	In force: 8 Aug. 1978	277	In force: 18 Oct. 2011
Georgia		In force: 3 June 2003	617	In force: 3 June 2003
Germany ¹⁵		In force: 21 Feb. 1977	193	In force: 30 April 2004
Ghana	Rescinded: 24 Feb. 2012	In force: 17 Feb. 1975	226	In force: 11 June 2004
Greece ¹⁶		Accession: 17 Dec. 1981	193	In force: 30 April 2004
Grenada ²	X	In force: 23 July 1996	525	
Guatemala ²	Amended: 26 April 2011	In force: 1 Feb. 1982	299	In force: 28 May 2008
<i>Guinea</i>	<i>Signed: 13 Dec. 2011</i>	<i>Signed: 13 Dec. 2011</i>		<i>Signed: 13 Dec. 2011</i>
<i>Guinea-Bissau</i>	<i>Signed: 21 June 2013</i>	<i>Signed: 21 June 2013</i>		<i>Signed: 21 June 2013</i>
Guyana ²	X	In force: 23 May 1997	543	
Haiti ²	X	In force: 9 March 2006	681	In force: 9 March 2006
Holy See	Amended: 11 Sept. 2006	In force: 1 Aug. 1972	187	In force: 24 Sept. 1998
Honduras ²	Amended: 20 Sept. 2007	In force: 18 April 1975	235	Signed: 7 July 2005
Hungary ¹⁷		Accession: 1 July 2007	193	Accession: 1 July 2007
Iceland	Amended: 15 March 2010	In force: 16 Oct. 1974	215	In force: 12 Sept. 2003
India¹⁸		In force: 30 Sept. 1971 In force: 17 Nov. 1977 In force: 27 Sept. 1988 In force: 11 Oct. 1989 In force: 1 March 1994 In force: 11 May 2009	211 260 360 374 433 754	In force: 25 July 2014
Indonesia		In force: 14 July 1980	283	In force: 29 Sept. 1999
Iran, Islamic Republic of ¹⁹		In force: 15 May 1974	214	Signed: 18 Dec. 2003
Iraq		In force: 29 Feb. 1972	172	In force: 10 Oct. 2012

State ^a	Small quantities protocols ^b	Safeguards agreements ^c	INFCIRC	Additional protocols
Ireland		In force: 21 Feb. 1977	193	In force: 30 April 2004
Israel		In force: 4 April 1975	249/Add.1	
Italy		In force: 21 Feb. 1977	193	In force: 30 April 2004
Jamaica ²	Rescinded: 15 Dec. 2006	In force: 6 Nov. 1978	265	In force: 19 March 2003
Japan		In force: 2 Dec. 1977	255	In force: 16 Dec. 1999
Jordan	Rescinded: 24 Apr. 2015	In force: 21 Feb. 1978	258	In force: 28 July 1998
Kazakhstan		In force: 11 Aug. 1995	504	In force: 9 May 2007
Kenya	In force: 18 Sept. 2009	In force: 18 Sept. 2009	778	In force: 18 Sept. 2009
Kiribati	X	In force: 19 Dec. 1990	390	Signed: 9 Nov. 2004
Korea, Republic of		In force: 14 Nov. 1975	236	In force: 19 Feb. 2004
Kuwait	Amended: 26 July 2013	In force: 7 March 2002	607	In force: 2 June 2003
Kyrgyzstan	X	In force: 3 Feb. 2004	629	In force: 10 Nov. 2011
Lao People's Democratic Republic	X	In force: 5 April 2001	599	Signed: 5 Nov. 2014
Latvia ²⁰		Accession: 1 Oct. 2008	193	Accession: 1 Oct. 2008
Lebanon	Amended: 5 Sept. 2007	In force: 5 March 1973	191	
Lesotho	Amended: 8 Sept. 2009	In force: 12 June 1973	199	In force: 26 April 2010
<i>Liberia</i>		<i>Approved: 8 June 2016</i>		<i>Approved: 8 June 2016</i>
Libya		In force: 8 July 1980	282	In force: 11 Aug. 2006
Liechtenstein		In force: 4 Oct. 1979	275	In force: 25 Nov. 2015
Lithuania ²¹		Accession: 1 Jan. 2008	193	Accession: 1 Jan. 2008
Luxembourg		In force: 21 Feb. 1977	193	In force: 30 April 2004
Madagascar	Amended: 29 May 2008	In force: 14 June 1973	200	In force: 18 Sept. 2003
Malawi	Amended: 29 Feb. 2008	In force: 3 Aug. 1992	409	In force: 26 July 2007
Malaysia		In force: 29 Feb. 1972	182	Signed: 22 Nov. 2005
Maldives	X	In force: 2 Oct. 1977	253	
Mali	Amended: 18 April 2006	In force: 12 Sept. 2002	615	In force: 12 Sept. 2002
Malta ²²		Accession: 1 July 2007	193	Accession: 1 July 2007
Marshall Islands		In force: 3 May 2005	653	In force: 3 May 2005
Mauritania	Amended: 20 March 2013	In force: 10 Dec. 2009	788	In force: 10 Dec. 2009

State ^a	Small quantities protocols ^b	Safeguards agreements ^c	INFCIRC	Additional protocols
Mauritius	Amended: 26 Sept. 2008	In force: 31 Jan. 1973	190	In force: 17 Dec. 2007
Mexico ²³		In force: 14 Sept. 1973	197	In force: 4 March 2011
<i>Micronesia, Federated States of</i>	<i>Signed: 1 June 2015</i>	<i>Signed: 1 June 2015</i>		
Monaco	Amended: 27 Nov. 2008	In force: 13 June 1996	524	In force: 30 Sept. 1999
Mongolia	X	In force: 5 Sept. 1972	188	In force: 12 May 2003
Montenegro	In force: 4 March 2011	In force: 4 March 2011	814	In force: 4 March 2011
Morocco	Rescinded: 15 Nov. 2007	In force: 18 Feb. 1975	228	In force: 21 April 2011
Mozambique	In force: 1 March 2011	In force: 1 March 2011	813	In force: 1 March 2011
Myanmar	X	In force: 20 April 1995	477	Signed: 17 Sept. 2013
Namibia	X	In force: 15 April 1998	551	In force: 20 Feb. 2012
Nauru	X	In force: 13 April 1984	317	
Nepal	X	In force: 22 June 1972	186	
Netherlands	X	In force: 5 June 1975 ¹⁴ In force: 21 Feb. 1977	229 193	In force: 30 April 2004
New Zealand ²⁴	Amended: 24 Feb. 2014	In force: 29 Feb. 1972	185	In force: 24 Sept. 1998
Nicaragua ²	Amended: 12 June 2009	In force: 29 Dec. 1976	246	In force: 18 Feb. 2005
Niger		In force: 16 Feb. 2005	664	In force: 2 May 2007
Nigeria	Rescinded: 14 Aug. 2012	In force: 29 Feb. 1988	358	In force: 4 April 2007
Norway		In force: 1 March 1972	177	In force: 16 May 2000
Oman	X	In force: 5 Sept. 2006	691	
Pakistan		In force: 5 March 1962 In force: 17 June 1968 In force: 17 Oct. 1969 In force: 18 March 1976 In force: 2 March 1977 In force: 10 Sept. 1991 In force: 24 Feb. 1993 In force: 22 Feb. 2007 In force: 15 April 2011	34 116 135 239 248 393 418 705 816	
Palau	Amended: 15 March 2006	In force: 13 May 2005	650	In force: 13 May 2005
<i>Palestine</i>				
Panama ⁸	Amended: 4 March 2011	In force: 23 March 1984	316	In force: 11 Dec. 2001
Papua New Guinea	X	In force: 13 Oct. 1983	312	
Paraguay ²	X	In force: 20 March 1979	279	In force: 15 Sept. 2004

State ^a	Small quantities protocols ^b	Safeguards agreements ^c	INFCIRC	Additional protocols
Peru ²		In force: 1 Aug. 1979	273	In force: 23 July 2001
Philippines		In force: 16 Oct. 1974	216	In force: 26 Feb. 2010
Poland ²⁵		Accession: 1 March 2007	193	Accession: 1 March 2007
Portugal ²⁶		Accession: 1 July 1986	193	In force: 30 April 2004
Qatar	In force: 21 Jan. 2009	In force: 21 Jan. 2009	747	
Republic of Moldova	Amended: 1 Sept. 2011	In force: 17 May 2006	690	In force: 1 June 2012
Romania ²⁷		Accession: 1 May 2010	193	Accession: 1 May 2010
Russian Federation		In force: 10 June 1985	327*	In force: 16 Oct. 2007
Rwanda	In force: 17 May 2010	In force: 17 May 2010	801	In force: 17 May 2010
Saint Kitts and Nevis ⁵	Amended: 19 Aug. 2016	In force: 7 May 1996	514	In force: 19 May 2014
Saint Lucia ⁵	X	In force: 2 Feb. 1990	379	
St Vincent and the Grenadines ⁵	X	In force: 8 Jan. 1992	400	
Samoa	X	In force: 22 Jan. 1979	268	
San Marino	Amended: 13 May 2011	In force: 21 Sept. 1998	575	
<i>São Tomé and Príncipe</i>				
Saudi Arabia	X	In force: 13 Jan. 2009	746	
Senegal	Amended: 6 Jan. 2010	In force: 14 Jan. 1980	276	Signed: 15 Dec. 2006
Serbia ²⁸		In force: 28 Dec. 1973	204	Signed: 3 July 2009
Seychelles	Amended: 31 Oct. 2006	In force: 19 July 2004	635	In force: 13 Oct. 2004
Sierra Leone	X	In force: 4 Dec. 2009	787	
Singapore	Amended: 31 March 2008	In force: 18 Oct. 1977	259	In force: 31 March 2008
Slovakia ²⁹		Accession: 1 Dec. 2005	193	Accession: 1 Dec. 2005
Slovenia ³⁰		Accession: 1 Sept. 2006	193	Accession: 1 Sept. 2006
Solomon Islands	X	In force: 17 June 1993	420	
<i>Somalia</i>				
South Africa		In force: 16 Sept. 1991	394	In force: 13 Sept. 2002
Spain		Accession: 5 April 1989	193	In force: 30 April 2004
Sri Lanka		In force: 6 Aug. 1984	320	
Sudan	X	In force: 7 Jan. 1977	245	

State ^a	Small quantities protocols ^b	Safeguards agreements ^c	INFCIRC	Additional protocols
Suriname ²	X	In force: 2 Feb. 1979	269	
Swaziland	Amended: 23 July 2010	In force: 28 July 1975	227	In force: 8 Sept. 2010
Sweden ³¹		Accession: 1 June 1995	193	In force: 30 April 2004
Switzerland		In force: 6 Sept. 1978	264	In force: 1 Feb. 2005
Syrian Arab Republic		In force: 18 May 1992	407	
Tajikistan	Rescinded: 6 Nov. 2015	In force: 14 Dec. 2004	639	In force: 14 Dec. 2004
Thailand		In force: 16 May 1974	241	Signed: 22 Sept. 2005
The former Yugoslav Republic of Macedonia	Amended: 9 July 2009	In force: 16 April 2002	610	In force: 11 May 2007
<i>Timor-Leste</i>	<i>Signed: 6 Oct. 2009</i>	<i>Signed: 6 Oct. 2009</i>		<i>Signed: 6 Oct. 2009</i>
Togo	Amended: 8 Oct. 2015	In force: 18 July 2012	840	In force: 18 July 2012
Tonga	X	In force: 18 Nov. 1993	426	
Trinidad and Tobago ²	X	In force: 4 Nov. 1992	414	
Tunisia		In force: 13 March 1990	381	Signed: 24 May 2005
Turkey		In force: 1 Sept. 1981	295	In force: 17 July 2001
Turkmenistan		In force: 3 Jan. 2006	673	In force: 3 Jan. 2006
Tuvalu	X	In force: 15 March 1991	391	
Uganda	Amended: 24 June 2009	In force: 14 Feb. 2006	674	In force: 14 Feb. 2006
Ukraine		In force: 22 Jan. 1998	550	In force: 24 Jan. 2006
United Arab Emirates	X	In force: 9 Oct. 2003	622	In force: 20 Dec. 2010
United Kingdom	X	In force: 14 Dec. 1972 ³² In force: 14 Aug. 1978 Signed: 6 Jan. 1993 ¹⁴	175 263*	In force: 30 April 2004
United Republic of Tanzania	Amended: 10 June 2009	In force: 7 Feb. 2005	643	In force: 7 Feb. 2005
United States of America	X	In force: 9 Dec. 1980 In force: 6 April 1989 ¹⁴	288* 366	In force: 6 Jan. 2009
Uruguay ²		In force: 17 Sept. 1976	157	In force: 30 April 2004
Uzbekistan		In force: 8 Oct. 1994	508	In force: 21 Dec. 1998
Vanuatu	In force: 21 May 2013	In force: 21 May 2013	852	In force: 21 May 2013
Venezuela, Bolivarian Republic of ²		In force: 11 March 1982	300	
Viet Nam		In force: 23 Feb. 1990	376	In force: 17 Sept. 2012

State ^a	Small quantities protocols ^b	Safeguards agreements ^c	INFCIRC	Additional protocols
Yemen	X	In force: 14 Aug. 2002	614	
Zambia	X	In force: 22 Sept. 1994	456	Signed: 13 May 2009
Zimbabwe	Amended: 31 Aug. 2011	In force: 26 June 1995	483	

Key

Bold States not party to the Treaty of the Non-Proliferation of Nuclear Weapons (NPT) whose safeguards agreements are of INFCIRC/66-type.

Italics States Parties to the NPT that have not yet brought into force comprehensive safeguards agreements (CSAs) pursuant to Article III of the NPT.

* Voluntary offer safeguards agreement with NPT nuclear-weapon States.

X 'X' in the 'small quantities protocols' column indicates that the State has an operative small quantities protocol (SQP). 'Amended' indicates that the operative SQP is based on the revised SQP standardized text.

NB: This table does not aim at listing all safeguards agreements that the Agency has concluded. Not included are agreements under which the application of safeguards has been suspended upon the entry into force of a CSA. Unless otherwise indicated, the safeguards agreements referred to are CSAs concluded pursuant to the NPT.

^a An entry in this column does not imply the expression of any opinion whatsoever on the part of the Agency concerning the legal status of any country or territory or of its authorities, or concerning the delimitation of its frontiers.

^b Provided that they meet certain eligibility criteria (including that the quantities of nuclear material do not exceed the limits set out in paragraph 37 of INFCIRC/153(Corrected)), countries have the option to conclude an SQP to their CSAs that holds in abeyance the implementation of most of the detailed provisions set out in Part II of the CSAs as long as eligibility criteria continue to apply. This column contains countries whose CSA with an SQP based on the original standard text has been approved by the Board of Governors and for which, as far as the Secretariat is aware, these eligibility criteria continue to apply. For those States that have accepted the revised standard SQP text (approved by the Board of Governors on 20 September 2005) the current status is reflected.

^c The Agency also applies safeguards for Taiwan, China, under two agreements, which entered into force on 13 October 1969 (INFCIRC/133) and 6 December 1971 (INFCIRC/158), respectively.

¹ *Sui generis* comprehensive safeguards agreement. On 28 November 2002, upon approval by the Board of Governors, an exchange of letters entered into force confirming that the safeguards agreement satisfies the requirement of Article III of the NPT.

² Safeguards agreement is pursuant to both the Treaty of Tlatelolco and the NPT.

³ Date refers to the safeguards agreement concluded between Argentina, Brazil, ABACC and the Agency. On 18 March 1997, upon approval by the Board of Governors, an exchange of letters entered into force between Argentina and the Agency confirming that the safeguards agreement satisfies the requirements of Article 13 of the Treaty of Tlatelolco and Article III of the NPT to conclude a safeguards agreement with the Agency.

⁴ The application of safeguards for Austria under the NPT bilateral safeguards agreement (INFCIRC/156), in force since 23 July 1972, was suspended on 31 July 1996, on which date the agreement of 5 April 1973 between the non-nuclear-weapon States of Euratom, Euratom and the Agency (INFCIRC/193), to which Austria had acceded, entered into force for Austria.

⁵ Date refers to a safeguards agreement pursuant to Article III of the NPT. Upon approval by the Board of Governors, an exchange of letters entered into force (for Saint Lucia on 12 June 1996 and for Belize, Dominica, Saint Kitts and Nevis and Saint Vincent and the Grenadines on 18 March 1997) confirming that the safeguards agreement satisfies the requirement of Article 13 of the Treaty of Tlatelolco.

⁶ Date refers to the safeguards agreement concluded between Argentina, Brazil, ABACC and the Agency. On 10 June 1997, upon approval by the Board of Governors, an exchange of letters entered into force between Brazil and the Agency confirming that the safeguards agreement satisfies the requirement of Article 13 of the Treaty of Tlatelolco. On 20 September 1999, upon approval by the Board of Governors, an exchange of letters entered into force confirming that the safeguards agreement also satisfies the requirement of Article III of the NPT.

⁷ The application of safeguards for Bulgaria under the NPT bilateral safeguards agreement (INFCIRC/178), in force since 29 February 1972, was suspended on 1 May 2009, on which date the agreement of 5 April 1973 between the non-nuclear-weapon States of Euratom, Euratom and the Agency (INFCIRC/193), to which Bulgaria had acceded, entered into force for Bulgaria.

⁸ Date refers to a safeguards agreement pursuant to Article 13 of the Treaty of Tlatelolco. Upon approval by the Board of Governors, an exchange of letters entered into force (for Chile on 9 September 1996; for Colombia on 13 June 2001; for Panama on 20 November 2003) confirming that the safeguards agreement satisfies the requirement of Article III of the NPT.

- ⁹ The application of safeguards for Cyprus under the NPT bilateral safeguards agreement (INFCIRC/189), in force since 26 January 1973, was suspended on 1 May 2008, on which date the agreement of 5 April 1973 between the non-nuclear-weapon States of Euratom, Euratom and the Agency (INFCIRC/193), to which Cyprus had acceded, entered into force for Cyprus.
- ¹⁰ The application of safeguards for the Czech Republic under the NPT bilateral safeguards agreement (INFCIRC/541), in force since 11 September 1997, was suspended on 1 October 2009, on which date the agreement of 5 April 1973 between the non-nuclear-weapon States of Euratom, Euratom and the Agency (INFCIRC/193), to which the Czech Republic had acceded, entered into force for the Czech Republic.
- ¹¹ The application of safeguards for Denmark under the NPT bilateral safeguards agreement (INFCIRC/176), in force since 1 March 1972, was suspended on 21 February 1977, on which date the agreement of 5 April 1973 between the non-nuclear-weapon States of Euratom, Euratom and the Agency (INFCIRC/193) entered into force for Denmark. Since 21 February 1977, INFCIRC/193 also applies to the Faroe Islands. Upon Greenland's secession from Euratom as of 31 January 1985, INFCIRC/176 re-entered into force for Greenland. The Additional Protocol for Greenland entered into force on 22 March 2013 (INFCIRC/176/Add.1).
- ¹² The application of safeguards for Estonia under the NPT bilateral safeguards agreement (INFCIRC/547), in force since 24 November 1997, was suspended on 1 December 2005, on which date the agreement of 5 April 1973 between the non-nuclear-weapon States of Euratom, Euratom and the Agency (INFCIRC/193), to which Estonia had acceded, entered into force for Estonia.
- ¹³ The application of safeguards for Finland under the NPT bilateral safeguards agreement (INFCIRC/155), in force since 9 February 1972, was suspended on 1 October 1995, on which date the agreement of 5 April 1973 between the non-nuclear-weapon States of Euratom, Euratom and the Agency (INFCIRC/193), to which Finland had acceded, entered into force for Finland.
- ¹⁴ The safeguards agreement is pursuant to Additional Protocol I to the Treaty of Tlatelolco.
- ¹⁵ The NPT safeguards agreement of 7 March 1972 concluded with the German Democratic Republic (INFCIRC/181) is no longer in force with effect from 3 October 1990, on which date the German Democratic Republic acceded to the Federal Republic of Germany.
- ¹⁶ The application of safeguards for Greece under the NPT bilateral safeguards agreement (INFCIRC/166), in force since 1 March 1972, was suspended on 17 December 1981, on which date the agreement of 5 April 1973 between the non-nuclear-weapon States of Euratom, Euratom and the Agency (INFCIRC/193), to which Greece had acceded, entered into force for Greece.
- ¹⁷ The application of safeguards for Hungary under the NPT bilateral safeguards agreement (INFCIRC/174), in force since 30 March 1972, was suspended on 1 July 2007, on which date the agreement of 5 April 1973 between the non-nuclear-weapon States of Euratom, Euratom and the Agency (INFCIRC/193), to which Hungary had acceded, entered into force for Hungary.
- ¹⁸ The application of safeguards for India under the safeguards agreement between the Agency, Canada and India (INFCIRC/211), in force since 30 September 1971, was suspended as of 20 March 2015. The application of safeguards for India under the following safeguards agreements between the Agency and India was suspended as of 30 June 2016: INFCIRC/260, in force since 17 November 1977; INFCIRC/360, in force since 27 September 1988; INFCIRC/374, in force since 11 October 1989; and INFCIRC/433, in force since 1 March 1994. Items subject to safeguards under the aforementioned safeguards agreements are subject to safeguards under the safeguards agreement between India and the Agency (INFCIRC/754), which entered into force on 11 May 2009.
- ¹⁹ Pending entry into force, the additional protocol is being applied provisionally for the Islamic Republic of Iran as of 16 January 2016.
- ²⁰ The application of safeguards for Latvia under the NPT bilateral safeguards agreement (INFCIRC/434), in force since 21 December 1993, was suspended on 1 October 2008, on which date the agreement of 5 April 1973 between the non-nuclear-weapon States of Euratom, Euratom and the Agency (INFCIRC/193), to which Latvia had acceded, entered into force for Latvia.
- ²¹ The application of safeguards for Lithuania under the NPT bilateral safeguards agreement (INFCIRC/413), in force since 15 October 1992, was suspended on 1 January 2008, on which date the agreement of 5 April 1973 between the non-nuclear-weapon States of Euratom, Euratom and the Agency (INFCIRC/193), to which Lithuania had acceded, entered into force for Lithuania.
- ²² The application of safeguards for Malta under the NPT bilateral safeguards agreement (INFCIRC/387), in force since 13 November 1990, was suspended on 1 July 2007, on which date the agreement of 5 April 1973 between the non-nuclear-weapon States of Euratom, Euratom and the Agency (INFCIRC/193), to which Malta had acceded, entered into force for Malta.
- ²³ The safeguards agreement was concluded pursuant to both the Treaty of Tlatelolco and the NPT. The application of safeguards under an earlier safeguards agreement pursuant to the Treaty of Tlatelolco, which entered into force on 6 September 1968 (INFCIRC/118), was suspended as of 14 September 1973.
- ²⁴ Whereas the NPT safeguards agreement and SQP with New Zealand (INFCIRC/185) also apply to Cook Islands and Niue, the additional protocol thereto (INFCIRC/185/Add.1) does not apply to those territories. Amendments to the SQP entered into force only for New Zealand on 24 February 2014 (INFCIRC/185/Mod.1).
- ²⁵ The application of safeguards for Poland under the NPT bilateral safeguards agreement (INFCIRC/179), in force since 11 October 1972, was suspended on 1 March 2007, on which date the agreement of 5 April 1973 between the non-nuclear-weapon States of Euratom, Euratom and the Agency (INFCIRC/193), to which Poland had acceded, entered into force for Poland.
- ²⁶ The application of safeguards for Portugal under the NPT bilateral safeguards agreement (INFCIRC/272), in force since 14 June 1979, was suspended on 1 July 1986, on which date the agreement of 5 April 1973 between the non-nuclear-weapon States of Euratom, Euratom and the Agency (INFCIRC/193), to which Portugal had acceded, entered into force for Portugal.
- ²⁷ The application of safeguards for Romania under the NPT bilateral safeguards agreement (INFCIRC/180), in force since 27 October 1972, was suspended on 1 May 2010, on which date the agreement of 5 April 1973 between the non-nuclear-weapon States of Euratom, Euratom and the Agency (INFCIRC/193), to which Romania had acceded, entered into force for Romania.

- ²⁸ The NPT safeguards agreement concluded with the Socialist Federal Republic of Yugoslavia (INFCIRC/204), which entered into force on 28 December 1973, continues to be applied for Serbia to the extent relevant to the territory of Serbia.
- ²⁹ The application of safeguards for Slovakia under the NPT bilateral safeguards agreement with the Czechoslovak Socialist Republic (INFCIRC/173), in force since 3 March 1972, was suspended on 1 December 2005, on which date the agreement of 5 April 1973 between the non-nuclear-weapon States of Euratom, Euratom and the Agency (INFCIRC/193), to which Slovakia had acceded, entered into force for Slovakia.
- ³⁰ The application of safeguards for Slovenia under the NPT bilateral safeguards agreement (INFCIRC/538), in force since 1 August 1997, was suspended on 1 September 2006, on which date the agreement of 5 April 1973 between the non-nuclear-weapon States of Euratom, Euratom and the Agency (INFCIRC/193), to which Slovenia had acceded, entered into force for Slovenia.
- ³¹ The application of safeguards for Sweden under the NPT bilateral safeguards agreement (INFCIRC/234), in force since 14 April 1975, was suspended on 1 June 1995, on which date the agreement of 5 April 1973 between the non-nuclear-weapon States of Euratom, Euratom and the Agency (INFCIRC/193), to which Sweden had acceded, entered into force for Sweden.
- ³² Date refers to the INFCIRC/66-type safeguards agreement, concluded between the United Kingdom and the Agency, which remains in force.

Table A7. Participation in multilateral treaties for which the Director General is the depositary, conclusion of Revised Supplementary Agreements and acceptance of amendments to Articles VI and XIV.A of the Agency's Statute (status as of 31 December 2016)

State/Organization	P&I	VC	CPPNM	CPPNM-AM	ENC	AC	JP	NS	RADW	PAVC	CSC	RSA	VI	XIV.A
* Afghanistan			P		Sr	Sr						P	X	
* Albania	P		P	P	P	P		P	P			P	X	X
* Algeria			Pr	P	Pr	Pr		S				P	X	X
Andorra			Pr											
* Angola					P							P		
* Antigua and Barbuda			P	P								P		
* Argentina	P	P	Pr	P	Pr	Pr	S	P	P	P	P	P	X	X
* Armenia		P	P	Pr	P	P		P	P			P		
* Australia	P		P	P	Pr	Pr		P	P		S			X
* Austria			Pr	P	P	Pr		Pr	P				X	X
* Azerbaijan			Pr	Pr								P		
* Bahamas			Pr											
* Bahrain			Pr	P	Pr			P				P		
* Bangladesh			P		P	P		P				P		
* Barbados														
* Belarus	Pr	P	Pr		Pr	Pr		P	P	P		P	X	X
* Belgium	Pr		Pr	Pr	P	P	S	P	P					
* Belize												P		
* Benin	P											P		
Bhutan														
* Bolivia, Plurinational State of	P	P	P		Pr	Pr						P		
* Bosnia and Herzegovina	Pr	P	P	P	P	P		P	P	P		P	X	X
* Botswana			P	P	P	P			P			P		
* Brazil	P	P	P		P	P		P	P			P	X	X
* Brunei Darussalam														
* Bulgaria	P	P	P	P	P	P	P	P	P			P	X	X

State/Organization	P&I	VC	CPPNM	CPPNM-AM	ENC	AC	JP	NS	RADW	PAVC	CSC	RSA	VI	XIVA
* Burkina Faso			P	P	P	P						P		
* Burundi												P		
Cabo Verde			P											
* Cambodia			P		P			P				P		
* Cameroon	P	P	P	P	P	P	P					P		
* Canada	Pr		P	Pr	Pr	Pr		P	P		S		X	X
* Central African Republic			P									P		
* Chad												P		
* Chile	Pr	Pr	P	P	P	P	P	P	P			P		
* China	Pr		Pr	P	Pr	Pr		P	Pr			P		
* Colombia	P	S	P	P	P	Pr						P	X	X
Comoros			P											
* Congo														
* Costa Rica			P		P	P						P		
* Côte d'Ivoire			P	P	S	S						P		
* Croatia	P	P	P	P	P	P	P	P	P			P	X	X
* Cuba	Pr	P	Pr	P	Pr	Pr		S				P		
* Cyprus	P		Pr	P	P	P		P	P			P	X	X
* Czech Republic	P	P	P	P	P	P	P	P	P	S	S	P	X	X
Dem. People's Rep. of Korea					Sr	Sr								
* Dem. Rep. of the Congo	P		P		S	S						P		
* Denmark	Pr		Pr	Pr	P	Pr	Pr	Pr	Pr				X	X
* Djibouti			P	P								P		
* Dominica			P									P		
* Dominican Republic			P	P	P							P		
* Ecuador	P		P									P		X
* Egypt	P	P			Pr	Pr	P	S				P		
* El Salvador			Pr	P	Pr	Pr						P	X	

State/Organization	P&I	VC	CPPNM	CPPNM-AM	ENC	AC	JP	NS	RADW	PAVC	CSC	RSA	VI	XIVA
Equatorial Guinea			P											
* Eritrea														
* Estonia	P	P	P	P	P	P	P	P	P			P	X	X
* Ethiopia												P	X	
* Fiji			P	P								P		
* Finland	P		Pr	P	P	Pr	P	P	P				X	X
* France			Pr	P	Pr	Pr	Pr	P	P				X	X
* Gabon			P	P	P	P			P			P		
Gambia														
* Georgia			P	P	P				P			P		
* Germany	Pr		Pr	P	Pr	Pr	P	P	P				X	X
* Ghana	P		P	P	P	P		P	P		P	P		
* Greece	P		Pr	P	Pr	Pr	P	P	P			P	X	X
Grenada			P											
* Guatemala			Pr		P	P						P		
Guinea			P											
Guinea-Bissau			P											
* Guyana			P											
* Haiti			S									P		
* Holy See	P				S	S							X	X
* Honduras			P									P		
* Hungary	Pr	P	P	P	P	P	P	P	P	S		P	X	X
* Iceland	P		P	P	P	P		P	P			P	X	X
* India	P		Pr	P	Pr	Pr		P			Pr			
* Indonesia	Pr		Pr	P	Pr	Pr		P	P	S	S	P		
* Iran, Islamic Republic of	P				Pr	Pr						P		X
* Iraq	P		P		Pr	Pr						P		
* Ireland	P		Pr	P	P	Pr		P	P			P	X	X

State/Organization	P&I	VC	CPPNM	CPPNM-AM	ENC	AC	JP	NS	RADW	PAVC	CSC	RSA	VI	XIVA
* Israel		Sr	Pr	Pr	Pr	Pr		S				P	X	
* Italy	Pr		Pr	P	Pr	Pr	P	P	P	S	S		X	X
* Jamaica	P		P	P								P		
* Japan	P		P	P	P	Pr		P	Pr		Pr		X	X
* Jordan	Pr	P	Pr	P	P	P		P	P	Pr		P		
* Kazakhstan	P	P	P	P	P	P		P	P	P		P		
* Kenya			P	P								P		X
Kiribati														
* Korea, Republic of	Pr		Pr	P	P	Pr		P	P			P	X	X
* Kuwait	P		Pr	P	P	P		P				P		
* Kyrgyzstan			P	P					P			P		
* Lao People's Dem. Rep.			Pr		P	P						P		
* Latvia	P	P	P	P	P	P	P	P	P	P		P	X	X
* Lebanon		P	P		P	P		P	S	S	S	P		
* Lesotho			P	P	P	P			P			P		
* Liberia														
* Libya			P	P	P	P		P				P	X	
* Liechtenstein			P	P	P	P							X	X
* Lithuania	P	P	P	P	P	P	P	P	P	S	S	P	X	X
* Luxembourg	Pr		Pr	P	P	P		P	P				X	X
* Madagascar			P									P		
* Malawi			P									P		
* Malaysia					Pr	Pr						P		
Maldives														
* Mali			P	P	P	P		P				P		
* Malta			P	P				P	P			P	X	X
* Marshall Islands			P	P								P		
* Mauritania			P	P	P	P			P			P		

State/Organization	P&I	VC	CPPNM	CPPNM-AM	ENC	AC	JP	NS	RADW	PAVC	CSC	RSA	VI	XIVA
* Mauritius	P	P			Pr	Pr			P		S	P		
* Mexico	Pr	P	P	P	P	P		P				P	X	X
Micronesia, Federated States of														
* Monaco			P		Pr	Pr		S					X	X
* Mongolia	P		P		P	P						P		
* Montenegro	P	P	P	P	P	P		P	P	P	P	P		
* Morocco	Pr	S	P	P	P	P	S	S	P	P	P	P	X	
* Mozambique	P		Pr		P	P						P		
* Myanmar					Pr							P	X	X
* Namibia			P									P		
Nauru														
			P	P										
* Nepal												P		
* Netherlands	Pr		Pr	Pr	Pr	Pr	Pr	Pr	Pr				X	X
* New Zealand	P		Pr	Pr	P	Pr								
* Nicaragua	P		P	P	Pr	Pr		S				P		
* Niger	P	P	P	P	S	S				P		P		
* Nigeria	P	P	P	P	P	P		P	P			P		
Niue														
			P											
* Norway	P		Pr	P	P	Pr	P	P	P				X	X
* Oman	Pr		Pr		Pr	Pr		P	P			P		
* Pakistan	Pr		Pr	Pr	Pr	Pr		P				P	X	X
* Palau	P		P									P		
* Panama			P		P	P						P	X	
Papua New Guinea														
* Paraguay			P	P	P	P		P				P		
* Peru		P	Pr	P	Pr	Pr		P	P	S	S	P	X	X
* Philippines	P	P	P		P	P	S	S	S	S	S	P		
* Poland	P	P	P	P	P	P	P	P	P	P		P	X	X

State/Organization	P&I	VC	CPPNM	CPPNM-AM	ENC	AC	JP	NS	RADW	PAVC	CSC	RSA	VI	XIVA
* Portugal	Pr		Pr	P	P	P	S	P	P			P	X	X
* Qatar			Pr	P	P	P						P		
* Republic of Moldova	Pr	P	P	P	P	P		P	Pr			P	X	X
* Romania	Pr	P	P	P	Pr	Pr	P	P	P	P	P	P	X	X
* Russian Federation	Pr	P	P	P	Pr	Pr		P	P					
* Rwanda			P									P		
Saint Kitts and Nevis			P											
Saint Lucia			Pr	P										
St Vincent and the Grenadines		P			P	P	P							
Samoa														
* San Marino			P	P										
São Tomé and Príncipe														
* Saudi Arabia		P	Pr	P	Pr	Pr		P	P	Pr		P		
* Senegal	P	P	P		P	P		P	P		S	P		
* Serbia	P	P	P	P	P	P						P		
* Seychelles			P	P								P		X
* Sierra Leone					S	S						P		
* Singapore	Pr		Pr	Pr	P	P		P				P		
* Slovakia	P	P	P	P	P	P	P	P	P			P	X	X
* Slovenia	P		P	P	P	P	P	P	P			P	X	X
Solomon Islands														
Somalia														
* South Africa	Pr		P		Pr	Pr		P	P			P	X	X
* Spain	P	S	Pr	P	Pr	Pr	S	P	P			P	X	X
* Sri Lanka					Pr	Pr		P				P		
* Sudan			P		S	S		S				P		
Suriname														
* Swaziland			P	P										

	State/Organization	P&I	VC	CPPNM	CPPNM-AM	ENC	AC	JP	NS	RADW	PAVC	CSC	RSA	VI	XIV-A
*	Sweden	P		Pr	P	P	Pr	P	P	P				X	X
*	Switzerland	Pr		Pr	P	P	P	S	P	P				X	X
*	Syrian Arab Republic	P				S	S		S				P		X
*	Tajikistan	P		P	P	P	P			P			P		
*	Thailand	Pr				Pr	Pr						P		
*	The former Yugoslav Republic of Macedonia		P	P	P	P	P		P	P			P		
	Timor Leste														
*	Togo			P									P		
	Tonga			P											
*	Trinidad and Tobago		P	P											
*	Tunisia	P		P	P	P	P		P				P	X	X
*	Turkey	Pr		Pr	Pr	Pr	Pr	P	P				P	X	X
*	Turkmenistan			P	P										
	Tuvalu														
*	Uganda			P									P		
*	Ukraine	Pr	P	P	P	Pr	Pr	P	Pr	P	S	S	P	X	X
*	United Arab Emirates			P	P	Pr	Pr	P	P	P	Pr	Pr	P		
*	United Kingdom	P	S	Pr	Pr	Pr	Pr	S	Pr	P				X	X
*	United Republic of Tanzania			P		P	P						P		
*	United States of America			P	Pr	Pr	Pr		P	P		Pr			
*	Uruguay		P	P	P	P	P	P	P	P			P	X	
*	Uzbekistan			P	P					P			P		
*	Vanuatu												P		
*	Venezuela, Bolivarian Republic of					Pr							P		
*	Viet Nam	P		Pr	P	Pr	Pr		P	P			P		
*	Yemen			P											
*	Zambia			P									P		
*	Zimbabwe					S	S						P		

State/Organization	P&I	VC	CPPNM	CPPNM-AM	ENC	AC	JP	NS	RADW	PAVC	CSC	RSA	VI	XIV.A
Euratom			Pr	Pr	Pr	Pr		Pr	Pr					
FAO					Pr	Pr								
WHO					Pr	Pr								
WMO					Pr	Pr								

P&I	Agreement on the Privileges and Immunities of the IAEA
VC	Vienna Convention on Civil Liability for Nuclear Damage
CPPNM	Convention on the Physical Protection of Nuclear Material
CPPNM-AM	Amendment to the Convention on the Physical Protection of Nuclear Material
ENC	Convention on Early Notification of a Nuclear Accident
AC	Convention on Assistance in the Case of a Nuclear Accident or Radiological Emergency
JP	Joint Protocol Relating to the Application of the Vienna Convention and the Paris Convention
NS	Convention on Nuclear Safety
RADW	Joint Convention on the Safety of Spent Fuel Management and on the Safety of Radioactive Waste Management
PAVC	Protocol to Amend the Vienna Convention on Civil Liability for Nuclear Damage
CSC	Convention on Supplementary Compensation for Nuclear Damage
RSA	Revised Supplementary Agreement Concerning the Provision of Technical Assistance by the IAEA
VI	Acceptance of Amendment to Article VI of the IAEA Statute, as informed by the depositary Government
XIV.A	Acceptance of Amendment to Article XIV.A of the IAEA Statute, as informed by the depositary Government
*	Agency Member State
P	Party
S	Signatory
r	Existing reservation/declaration
X	Accepting State

Table A8. Conventions negotiated and adopted under the auspices of the Agency and/or for which the Director General is the depositary (status and relevant developments)

Agreement on the Privileges and Immunities of the IAEA (reproduced in INFCIRC/9/Rev.2). In 2016, the status of the Agreement remained unchanged with 84 Parties.

Convention on Early Notification of a Nuclear Accident (reproduced in INFCIRC/335). Entered into force on 27 October 1986. In 2016, 1 State became a Party to the Convention. By the end of the year, there were 120 Parties.

Convention on Assistance in the Case of a Nuclear Accident or Radiological Emergency (reproduced in INFCIRC/336). Entered into force on 26 February 1987. In 2016, 1 State became a Party to the Convention. By the end of the year there were 113 Parties

Convention on Nuclear Safety (reproduced in INFCIRC/449). Entered into force on 24 October 1996. In 2016, the status of the Convention remained unchanged. By the end of the year, there were 78 Parties.

Joint Convention on the Safety of Spent Fuel Management and on the Safety of Radioactive Waste Management (reproduced in INFCIRC/546). Entered into force on 18 June 2001. In 2016, 3 States became Parties to the Convention. By the end of the year, there were 73 Parties.

Convention on the Physical Protection of Nuclear Material (reproduced in INFCIRC/274/Rev.1). Entered into force on 8 February 1987. In 2016, 1 State became a Party to the Convention. By the end of the year, there were 154 Parties.

Amendment to the Convention on the Physical Protection of Nuclear Material. Entered into force on 8 May 2016. In 2016, 15 States adhered to the Amendment. By the end of the year, there were 106 Parties.

Vienna Convention on Civil Liability for Nuclear Damage (reproduced in INFCIRC/500). Entered into force on 12 November 1977. In 2016, the status of the Convention remained unchanged with 40 Parties.

Optional Protocol Concerning the Compulsory Settlement of Disputes (reproduced in INFCIRC/500/Add.3). Entered into force on 13 May 1999. In 2016, the status of the Protocol remained unchanged with 2 Parties.

Joint Protocol Relating to the Application of the Vienna Convention and the Paris Convention (reproduced in INFCIRC/402). Entered into force on 27 April 1992. In 2016, the status of the Protocol remained unchanged with 28 Parties.

Protocol to Amend the Vienna Convention on Civil Liability for Nuclear Damage (reproduced in INFCIRC/566). Entered into force on 4 October 2003. In 2016, 1 State became a Party to the Protocol. By the end of the year, there were 13 Parties.

Convention on Supplementary Compensation for Nuclear Damage (reproduced in INFCIRC/567). Entered into force on 17 April 2015. In 2016, 2 States became Parties to the Convention. By the end of the year, there were 9 Parties.

Revised Supplementary Agreement Concerning the Provision of Technical Assistance by the IAEA (RSA). In 2016, 7 States concluded an RSA. By the end of the year, there were 132 States party to an RSA Agreement.

Fifth Agreement to Extend the 1987 Regional Co-operative Agreement for Research, Development and Training Related to Nuclear Science and Technology (RCA) (reproduced in INFCIRC/167/Add.23). Entered into force on 31 August 2011 with effect from 12 June 2012. In 2016, the status remained unchanged with 17 Parties.

African Regional Co-operative Agreement for Research, Development and Training Related to Nuclear Science and Technology (AFRA) (Fifth Extension) (reproduced in INFCIRC/377/Add.20). Entered into force on 4 April 2015. In 2016, 11 States became Parties to the Agreement. By the end of the year, there were 27 Parties.

Agreement to Extend the Co-operation Agreement for the Promotion of Nuclear Science and Technology in Latin America and the Caribbean (ARCAL) (reproduced in INFCIRC/582/Add.4). Entered into force on 5 September 2015. In 2016, 2 States became Parties to the Agreement. By the end of the year, there were 19 Parties.

Co-operative Agreement for Arab States in Asia for Research, Development and Training Related to Nuclear Science and Technology (ARASIA) (Second Extension) (reproduced in INFCIRC/613/Add.3). Entered into force on 29 July 2014. In 2016, 1 State became a Party to the Agreement. By the end of the year, there were 9 Parties.

Agreement on the Establishment of the ITER International Fusion Energy Organization for the Joint Implementation of the ITER Project (reproduced in INFCIRC/702). Entered into force on 24 October 2007. In 2016, the status of the Agreement remained unchanged with 7 Parties.

Agreement on the Privileges and Immunities of the ITER International Fusion Energy Organization for the Joint Implementation of the ITER Project (reproduced in INFCIRC/703). Entered into force on 24 October 2007. In 2016, the status of the Agreement remained unchanged with 6 Parties.

Table A9. Nuclear power reactors in operation and under construction in the world (as of 31 December 2016)^a

Country	Reactors in operation		Reactors under construction		Nuclear electricity supplied in 2016		Total operating experience through 2016	
	No. of units	Total MW(e)	No. of units	Total MW(e)	TW-h	% of total	Years	Months
Argentina	3	1 632	1	25	7.7	5.6	79	2
Armenia	1	375			2.2	31.4	42	8
Belarus			2	2 218				
Belgium	7	5 913			41.4	51.7	282	7
Brazil	2	1 884	1	1 245	15.0	2.9	51	3
Bulgaria	2	1 926			15.1	35.0	161	3
Canada	19	13 554			95.7	15.6	712	6
China	36	31 384	21	21 622	197.8	3.6	243	2
Czech Republic	6	3 930			22.7	29.4	152	10
Finland	4	2 764	1	1 600	22.3	33.7	151	4
France	58	63 130	1	1 630	386.5	72.3	2 106	4
Germany	8	10 799			80.1	13.1	824	7
Hungary	4	1 889			15.2	51.3	126	2
India	22	6 240	5	2 990	35.0	3.4	460	11
Iran, Islamic Republic of	1	915			5.9	2.1	5	4
Japan	42	39 752	2	2 653	17.5	2.2	1 781	5
Korea, Republic of	25	23 077	3	4 020	154.3	30.3	498	11
Mexico	2	1 552			10.3	6.2	49	11
Netherlands	1	482			3.7	3.4	72	0
Pakistan	4	1 005	3	2 343	5.4	4.4	67	11
Romania	2	1 300			10.4	17.1	29	11
Russian Federation	35	26 111	7	5 520	184.1	17.1	1 226	9
Slovakia	4	1 814	2	880	13.7	54.1	160	7
Slovenia	1	688			5.4	35.2	35	3
South Africa	2	1 860			15.2	6.6	64	3
Spain	7	7 121			56.1	21.4	322	1
Sweden	10	9 740			60.6	40.0	442	6
Switzerland	5	3 333			20.3	34.4	209	11
Ukraine	15	13 107	2	2 070	76.1	52.3	473	6
United Arab Emirates			4	5 380				
United Kingdom	15	8 918			65.1	20.4	1 574	7
United States of America	99	99 869	4	4 468	804.9	19.7	4 210	9
Total^{b, c}	448	391 116	61	61 264	2 476.2		16 982	5

^a Data are from the Agency's Power Reactor Information System (PRIS) (<http://www.iaea.org/pris>).

^b The total figures include the following data from Taiwan, China: 6 units, 5052 MW(e) in operation; 2 units, 2600 MW(e) under construction; 30.5 TW-h of nuclear electricity generation, representing 13.7% of the total electricity generated.

^c The total operating experience also includes shutdown plants in Italy (80 years, 8 months), Kazakhstan (25 years, 10 months), Lithuania (43 years, 6 months) and Taiwan, China (212 years, 1 month).

Table A10. Member State participation in selected Agency activities

Member State	No. of research contracts and agreements	No. of Collaborating Centres	Services provided to Member States					
			ALMERA ^a	Dosimetry audits for radiotherapy	Plant irradiation services	QUANUM ^b	QUAADRIL ^c	QUATRO ^d
Afghanistan								
Albania	1			4				
Algeria	7							
Angola	1							
Antigua and Barbuda								
Argentina	46		1					
Armenia	3			2				
Australia	44	1	3					
Austria	22		2		2			
Azerbaijan	2							
Bahamas								
Bahrain				3				
Bangladesh	24			1				
Barbados								
Belarus	5		1	20				
Belgium	24		2					
Belize								
Benin	1							
Bolivia, Plurinational State of								
Bosnia and Herzegovina	1		3	12				
Botswana				2				
Brazil	49	2	4					
Brunei Darussalam								
Bulgaria	10		2		1			
Burkina Faso	6	1			2			
Burundi					1			
Cambodia	1			1	2			

Member State	No. of research contracts and agreements	No. of Collaborating Centres	Services provided to Member States					
			ALMERA ^a	Dosimetry audits for radiotherapy	Plant irradiation services	QUANUM ^b	QUADRIL ^c	QUATRO ^d
Cameroon	7			2	1			
Canada	38		3					
Central African Republic								
Chad								
Chile	19		1	8				
China	87		3	22				
Colombia	7			3				
Congo								
Costa Rica	6	1	1	7	1			
Côte d'Ivoire	2				1			
Croatia	12		2	5				
Cuba	16		3	11		1		
Cyprus			1					
Czech Republic	13		1		2			
Dem. Rep. of the Congo	1				1			
Denmark	4		1					
Djibouti	1							
Dominica								
Dominican Republic								
Ecuador	2		1	10				
Egypt	21		1	5				
El Salvador				5	1			
Eritrea					1			
Estonia	7		1	12				
Ethiopia	6		1	2				
Fiji								
Finland	10		1					
France	50	2	5					

Member State	No. of research contracts and agreements	No. of Collaborating Centres	Services provided to Member States					
			ALMERA ^a	Dosimetry audits for radiotherapy	Plant irradiation services	QUANUM ^b	QUADRIL ^c	QUATRO ^d
Gabon								
Georgia	4			6				
Germany	56		3		8			
Ghana	16			2				
Greece	18		5					
Guatemala	6			4	1			
Guyana								
Haiti								
Holy See								
Honduras					1			
Hungary	16	2	2	24	1			
Iceland			1					
India	75	1	3	20	1			
Indonesia	22	1	1	13		1		
Iran, Islamic Republic of	12		1					
Iraq	1		1	7	1			
Ireland			1					
Israel	4		1			3		
Italy	54	2	8		1			
Jamaica	4		1					
Japan	55	2	1					
Jordan	9		1					
Kazakhstan	4		1	26				
Kenya	17		1	11				
Korea, Republic of	43	2	2					
Kuwait	5		1					
Kyrgyzstan								
Lao People's Dem. Rep.	1							

Member State	No. of research contracts and agreements	No. of Collaborating Centres	Services provided to Member States					
			ALMERA ^a	Dosimetry audits for radiotherapy	Plant irradiation services	QUANUM ^b	QUADRIL ^c	QUATRO ^d
Latvia	1		1	5				
Lebanon	2		1	17				
Lesotho								
Liberia								
Libya					1			
Liechtenstein								
Lithuania	5		3	10				
Luxembourg			1					
Madagascar	5		1					
Malawi								
Malaysia	24	1	1	19		1		
Mali	1							
Malta				2				
Marshall Islands								
Mauritania					1			
Mauritius	4							
Mexico	22	1	3	33		1		
Monaco								
Mongolia	3		1	1	1			
Montenegro	2		1					
Morocco	19	1	1	17				1
Mozambique	1				1			
Myanmar	2		1	5		1		
Namibia	1			1	1			
Nepal	1			8	1			
Netherlands	15	1	3		1			
New Zealand	7		1					
Nicaragua				2				

Member State	No. of research contracts and agreements	No. of Collaborating Centres	Services provided to Member States					
			ALMERA ^a	Dosimetry audits for radiotherapy	Plant irradiation services	QUANUM ^b	QUADRIL ^c	QUATRO ^d
Niger					1			
Nigeria	5			2	1			
Norway	6		2					
Oman				3	1			
Pakistan	42		1					
Palau								
Panama	1		1	7				
Papua New Guinea				1				
Paraguay				2				
Peru	11		1	13				
Philippines	16	1	1	9		2		
Poland	33	1	3					
Portugal	9		1	3				
Qatar			1					
Republic of Moldova				3				
Romania	10		3	20	1			
Russian Federation	52		3	51				
Rwanda								
San Marino								
Saudi Arabia	4	1	1	9				
Senegal	8							
Serbia	8		3	16				
Seychelles								
Sierra Leone					1			
Singapore	9		1					
Slovakia	5		3					
Slovenia	10		1					
South Africa	35		3	34				

Member State	No. of research contracts and agreements	No. of Collaborating Centres	Services provided to Member States					
			ALMERA ^a	Dosimetry audits for radiotherapy	Plant irradiation services	QUANUM ^b	QAADRIL ^c	QUATRO ^d
Spain	35	1	2		2			
Sri Lanka	9		1	15	3			
Sudan	2				1			
Swaziland								
Sweden	12		2					
Switzerland	8	1	3					
Syrian Arab Republic	6		1	6				
Tajikistan	1		1					
Thailand	24		2	26		1		
The former Yugoslav Republic of Macedonia	5		1	3				
Togo								
Trinidad and Tobago				5				
Tunisia	10		1	6				
Turkey	12		2	33				
Turkmenistan								
Uganda	7							
Ukraine	25		1	37				
United Arab Emirates	1		2	2				
United Kingdom	55		4		1			
United Republic of Tanzania	4			2	3			
United States of America	132	1	6					
Uruguay	13		1	9				
Uzbekistan	2				1			
Vanuatu								
Venezuela, Bolivarian Republic of	2		2	30				
Viet Nam	20			6				
Yemen								

Member State	No. of research contracts and agreements	No. of Collaborating Centres	Services provided to Member States					
			ALMERA ^a	Dosimetry audits for radiotherapy	Plant irradiation services	QUANUM ^b	QUAADRIL ^c	QUATRO ^d
Zambia	4		1					
Zimbabwe	2			2				

^a ALMERA: Analytical Laboratories for the Measurement of Environmental Radioactivity.

^b QUANUM: Quality Assurance in Nuclear Medicine.

^c QUAADRIL: Quality Assurance Audit for Diagnostic Radiology Improvement and Learning.

^d QUATRO: Quality Assurance Team for Radiation Oncology.

Table A11. Integrated Nuclear Infrastructure Review (INIR) missions in 2016

Type	Country
INIR follow-up	Bangladesh
INIR	Kazakhstan
INIR	Malaysia
INIR follow-up	Poland

Table A12. Knowledge Management Assist Visit (KMAV) missions in 2016

Type	Organization/nuclear power plant	Country
KMAV	Nuclear Power Production and Development Company (NPPD)	Islamic Republic of Iran
KMAV	Leningrad nuclear power plant	Russian Federation
KMAV	Shanghai Nuclear Engineering Research and Design Institute (SNERDI)	China

Table A13. Education and Training Appraisal (EduTA) missions in 2016

Type	Country
EduTA	Cuba
EduTA	Georgia
EduTA	Peru
EduTA preparatory	United Arab Emirates

Table A14. Emergency Preparedness Review (EPREV) missions in 2016

Type	Country
EPREV	Hungary
EPREV	Indonesia
EPREV preparatory mission	Indonesia

Table A15. Integrated missions of the Agency's Programme of Action for Cancer Therapy (imPACT) in 2016

Type	Country
imPACT	Belize
imPACT	Honduras
imPACT	Kazakhstan
imPACT	Paraguay
imPACT	Sierra Leone

Table A16. International Physical Protection Advisory Service (IPPAS) missions in 2016

Type	Country
IPPAS	Albania
IPPAS	Malaysia
IPPAS	Poland
IPPAS	Sweden
IPPAS	United Arab Emirates
IPPAS	United Kingdom

Table A17. Integrated Safety Assessment of Research Reactors (INSARR) missions in 2016

Type	Country
INSARR	Jordan
INSARR	Netherlands
INSARR	Portugal
INSARR follow-up	Malaysia

Table A18. Safety expert missions for research reactors based on the INSARR methodology in 2016

Type	Country
Safety mission	Indonesia, Jamaica, Malaysia, Peru and Poland

Table A19. Integrated Regulatory Review Service (IRRS) missions in 2016

Type	Country
IRRS	Belarus
IRRS	Estonia
IRRS	Italy
IRRS	Japan
IRRS	Kenya
IRRS	Lithuania
IRRS	South Africa
IRRS follow-up	Bulgaria
IRRS follow-up	China
IRRS follow-up	Sweden

Table A20. Operational Safety Review Team (OSART) missions in 2016

Type	Country
OSART	Canada
OSART	France
OSART	Romania
OSART follow-up	France
OSART follow-up	France
OSART follow-up	Hungary
OSART follow-up	Netherlands
OSART follow-up	Russian Federation

Table A21. Safety Aspects of Long Term Operation (SALTO) missions in 2016

Type	Country
SALTO	Argentina
SALTO	Armenia
SALTO	Bulgaria
SALTO	Sweden
SALTO follow-up	Belgium
SALTO follow-up	Czech Republic
SALTO follow-up	Sweden

Table A22. Site and External Events Design (SEED) missions in 2016

Type	Country
SEED	Japan
SEED	Jordan
SEED	Pakistan
SEED	Poland
SEED	Tunisia
SEED preparatory	Belarus
SEED preparatory	France
SEED preparatory	Iran, Islamic Republic of

Table A23. Technical Safety Reviews (TSRs) in 2016

Type	Location/Design	Country
Generic reactor safety	CAP1400	China
Generic reactor safety	ACP100	China
Probabilistic safety assessment	Dukovany	Czech Republic

Table A24. Advisory missions in 2016

Type	Country
Regulatory infrastructure for the control of radioactive sources	Antigua and Barbuda, Cambodia, Ecuador, El Salvador, Liberia, Madagascar, Morocco, Qatar and Sri Lanka
Operational Safety Performance Experience Review (PROSPER)	Russian Federation
Expert mission to provide recommendations for safe conversion of a research reactor to use low enriched uranium fuel	Ghana

Table A25. Occupational Radiation Protection Appraisal Service (ORPAS) missions in 2016

Type	Country
ORPAS	Costa Rica
ORPAS	Ghana
ORPAS follow-up	Uruguay
Pre-ORPAS	Malaysia
Pre-ORPAS	Morocco
Pre-ORPAS	Paraguay

Table A26. IAEA-designated International Centres based on Research Reactor

Country	Number
France	2
Russian Federation	1