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Note: Tables A33–A38 are available on the attached CD-ROM.

Table A1. Regular Budget allocation and utilization of resources in 2018 by Programme and Major Programme (in euros)

Major Programme (MP)/Programme	Original budget US \$1/€1	Adjusted budget US \$1/€0.847	Expenditure	Resource utilization	Balances
	a*	b**	c	d = c/b	e = b - c
MP1 — Nuclear Power, Fuel Cycle and Nuclear Science					
Overall management, coordination and common activities	3 134 965	3 057 889	3 036 037	99.3%	21 852
Nuclear Power	8 698 141	8 482 035	8 200 272	96.7%	281 763
Nuclear Fuel Cycle and Materials Technologies	7 352 806	7 179 032	6 935 879	96.6%	243 153
Capacity Building and Nuclear Knowledge for Sustainable Energy Development	10 326 191	10 105 671	9 174 724	90.8%	930 947
Nuclear Science	10 331 978	10 165 141	9 886 591	97.3%	278 549
Total Major Programme 1	39 844 081	38 989 768	37 233 503	95.5%	1 756 265
MP2 — Nuclear Techniques for Development and Environmental Protection					
Overall management, coordination and common activities	7 842 153	7 749 123	7 837 894	101.1%	(88 771)
Food and Agriculture	11 653 361	11 463 665	11 484 082	100.2%	(20 417)
Human Health	8 560 287	8 395 413	8 354 430	99.5%	40 983
Water Resources	3 599 384	3 541 674	3 565 688	100.7%	(24 014)
Environment	6 431 279	6 316 669	6 281 919	99.4%	34 750
Radioisotope Production and Radiation Technology	2 393 070	2 353 538	2 247 633	95.5%	105 905
Total Major Programme 2	40 479 534	39 820 082	39 771 646	99.9%	48 436
MP3 — Nuclear Safety and Security					
Overall management, coordination and common activities	3 914 342	3 815 892	3 803 451	99.7%	12 441
Incident and Emergency Preparedness and Response	4 331 663	4 237 606	4 213 183	99.4%	24 423
Safety of Nuclear Installations	10 369 996	10 088 230	10 027 739	99.4%	60 491
Radiation and Transport Safety	7 408 980	7 219 346	7 313 537	101.3%	(94 191)
Radioactive Waste Management and Environmental Safety	3 744 708	3 655 548	3 567 237	97.6%	88 311
Nuclear Security	5 842 977	5 673 081	5 229 455	92.2%	443 626
Total Major Programme 3	35 612 666	34 689 703	34 154 602	98.5%	535 101
MP4 — Nuclear Verification					
Overall management, coordination and common activities	14 301 527	14 067 595	13 306 670	94.6%	760 925
Safeguards Implementation	121 082 207	118 256 917	119 097 574	100.7%	(840 657)
Other Verification Activities	1 739 630	1 677 411	1 649 363	98.3%	28 048
Development	4 837 563	4 699 156	4 587 708	97.6%	111 448
Total Major Programme 4	141 960 927	138 701 079	138 641 315	100.0%	59 764
MP5 — Policy, Management and Administration Services					
Policy, Management and Administration Services	79 048 022	77 893 066	76 964 397	98.8%	928 669
Total Major Programme 5	79 048 022	77 893 066	76 964 397	98.8%	928 669
MP6 — Management of Technical Cooperation for Development					
Management of Technical Cooperation for Development	25 534 194	24 975 289	24 679 939	98.8%	295 350
Total Major Programme 6	25 534 194	24 975 289	24 679 939	98.8%	295 350
Total Operational Regular Budget	362 479 424	355 068 987	351 445 402	99.0%	3 623 585
Major Capital Investment Funding Requirements***					
MP1 — Nuclear Power, Fuel Cycle and Nuclear Science	—	—	—	—	—
MP2 — Nuclear Techniques for Development and Environmental Protection	2 011 381	2 011 381	1 401 197	69.7%	610 184
MP3 — Nuclear Safety and Security	270 144	270 144	92 820	34.4%	177 324
MP4 — Nuclear Verification	2 016 000	2 016 000	1 008 000	50.0%	1 008 000
MP5 — Policy, Management and Administration Services	3 761 856	3 761 856	2 207 117	58.7%	1 554 739
MP6 — Management of Technical Cooperation for Development	—	—	—	—	—
Total Capital Regular Budget	8 059 381	8 059 381	4 709 134	58.4%	3 350 247
Total Agency Programmes	370 538 805	363 128 368	356 154 536	98.1%	6 973 832
Reimbursable Work for Others	2 782 851	2 782 851	3 107 795	111.7%	(324 944)
Total Regular Budget	373 321 656	365 911 219	359 262 331	98.2%	6 648 888

* General Conference resolution GC(61)/RES/4 of September 2017 original budget at US \$1/€1.

** Original budget revalued at the United Nations operational average rate of exchange of €0.847 to US \$1 in 2018.

*** Additional information about the Major Capital Investment Fund can be found in note 39d of *The Agency's Financial Statements for 2018*.

Table A2. Extrabudgetary regular programme fund resource utilization in 2018 by Programme and Major Programme (in euros)

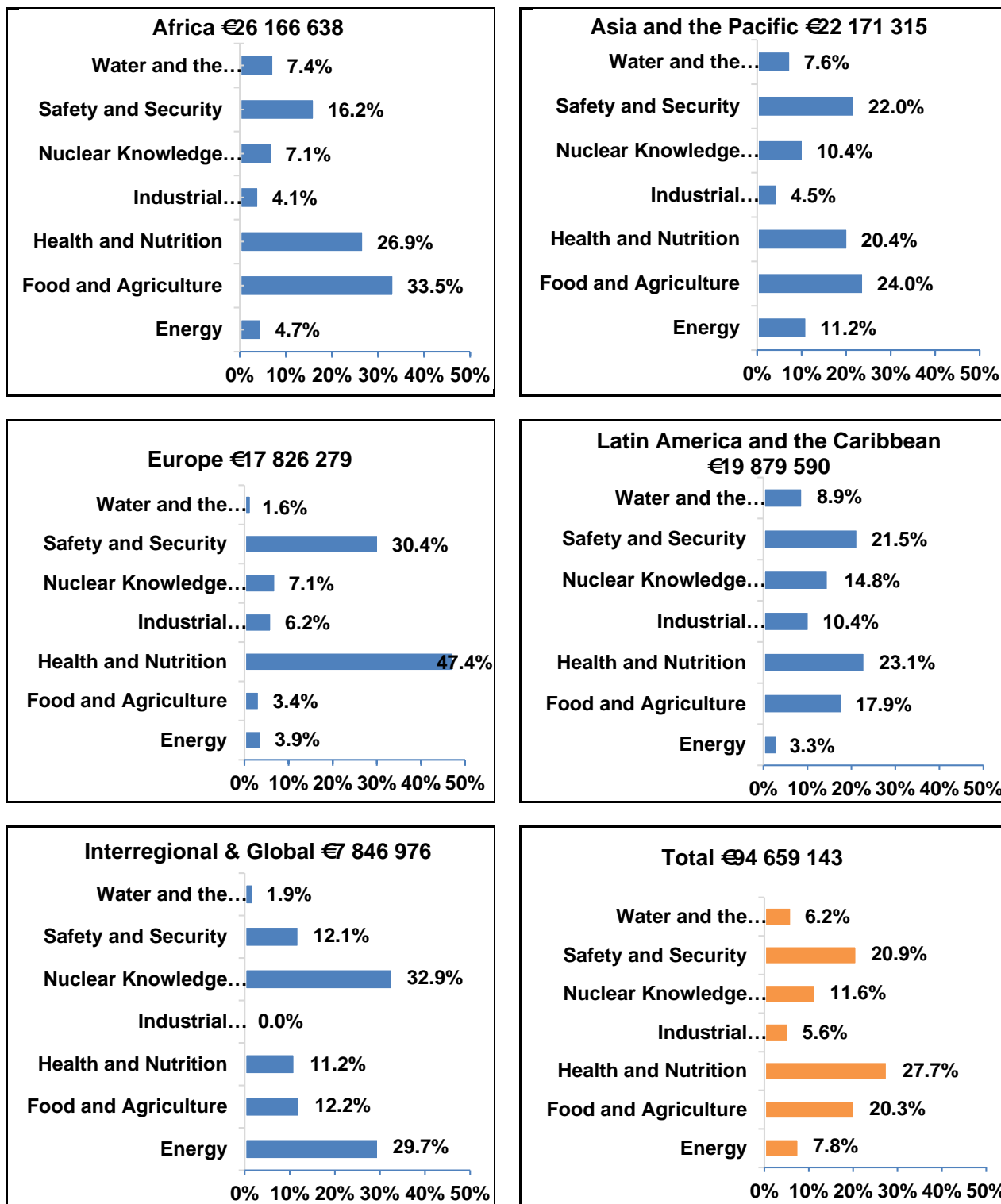
Major Programme (MP)/Programme	2018 net expenditure
MP1 — Nuclear Power, Fuel Cycle and Nuclear Science	
Overall management, coordination and common activities	95 844
Nuclear Power	3 321 130
Nuclear Fuel Cycle and Materials Technologies	3 525 439
Capacity Building and Nuclear Knowledge for Sustainable Energy Development	704 847
Nuclear Science	5 008 511
Total Major Programme 1	12 655 771
MP2 — Nuclear Techniques for Development and Environmental Protection	
Overall management, coordination and common activities	11 633 229
Food and Agriculture	3 020 594
Human Health	547 187
Water Resources	572 483
Environment	1 282 746
Radioisotope Production and Radiation Technology	106 169
Total Major Programme 2	17 162 408
MP3 — Nuclear Safety and Security	
Overall management, coordination and common activities	4 057 275
Incident and Emergency Preparedness and Response	1 154 769
Safety of Nuclear Installations	4 507 092
Radiation and Transport Safety	2 923 713
Radioactive Waste Management and Environmental Safety	1 585 281
Nuclear Security	19 453 035
Total Major Programme 3	33 681 165
MP4 — Nuclear Verification	
Overall management, coordination and common activities	635 015
Safeguards Implementation	11 157 665
Other Verification Activities	5 790 660
Development	1 274 993
Total Major Programme 4	18 858 333
MP5 — Policy, Management and Administration Services	
Policy, Management and Administration Services	2 060 636
Total Major Programme 5	2 060 636
MP6 — Management of Technical Cooperation for Development	
Management of Technical Cooperation for Development	495 203
Total Major Programme 6	495 203
Total extrabudgetary programme funds	84 913 516

Table A3(a). Disbursements (actuals) of the Technical Cooperation Fund by technical field and region in 2018

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	1 235 980	2 481 752	689 567	653 021	2 332 444		7 392 765
Food and Agriculture	8 758 360	5 310 839	607 454	3 565 479	960 503		19 202 634
Health and Nutrition	7 039 917	4 525 008	8 450 797	4 593 611	876 845	768 345	26 254 523
Industrial Applications/ Radiation Technology	1 083 371	1 003 501	1 103 627	2 076 028			5 266 527
Nuclear Knowledge Development and Management	1 864 877	2 302 468	1 268 335	2 938 638	2 579 829		10 954 148
Safety and Security	4 244 757	4 870 094	5 422 422	4 274 091	946 744		19 758 108
Water and the Environment	1 939 375	1 677 653	284 077	1 778 722	150 611		5 830 438
Total	26 166 638	22 171 315	17 826 279	19 879 590	7 846 976	768 345	94 659 143

^a PACT: Programme of Action for Cancer Therapy.

Table A3(b). Graphical representation of the 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 2018 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	140 888	2 726	20 139	163 753
Separated plutonium outside reactor cores	1 157	5	10 917	12 079
High enriched uranium (equal to or greater than 20% U-235)	159	1	0	160
Low enriched uranium (less than 20% U-235)	19 401	333	1 402	21 136
Source material ^c (natural and depleted uranium and thorium)	11 815	1 172	2 681	15 668
U-233	18	0	0	18
Total SQs of nuclear material	173 438	4 237	35 139	212 814

Amount of heavy water under Agency safeguards at the end of 2018 by type of agreement

Non-nuclear material ^d	Comprehensive safeguards agreement	INFCIRC/66-type agreement	Voluntary offer agreement	Quantity in tonnes
Heavy water (tonnes)		422.9		423.6^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 (9 000 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 2018

Type	Comprehensive safeguards agreement ^a	INFCIRC/66-type agreement ^b	Voluntary offer agreement	Total
Power reactors	240	16	1	257
Research reactors and critical assemblies	147	3	1	151
Conversion plants	18	0	0	18
Fuel fabrication plants	40	2	1	43
Reprocessing plants	10	0	1	11
Enrichment plants	16	0	3	19
Separate storage facilities	136	2	4	142
Other facilities	80	0	0	80
Facility subtotals	687	23	11	721
Material balance areas containing locations outside facilities ^c	592	1	0	593
Total	1279	24	11	1314

^a Covering safeguards agreements pursuant to the Treaty on the Non-Proliferation of Nuclear Weapons and/or the Treaty of Tlatelolco and other comprehensive safeguards agreements; includes facilities in Taiwan, China.

^b Covering facilities in India, Israel and Pakistan.

^c Includes 59 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 2018)

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 Jul. 2005
Albania ¹		In force: 25 Mar. 1988	359	In force: 3 Nov. 2010
Algeria		In force: 7 Jan. 1997	531	Signed: 16 Feb. 2018
Andorra	Amended: 24 Apr. 2013	In force: 18 Oct. 2010	808	In force: 19 Dec. 2011
Angola	In force: 28 Apr. 2010	In force: 28 Apr. 2010	800	In force: 28 Apr. 2010
Antigua and Barbuda ²	Amended: 5 Mar. 2012	In force: 9 Sep. 1996	528	In force: 15 Nov. 2013
Argentina ³		In force: 4 Mar. 1994	435	
Armenia		In force: 5 May 1994	455	In force: 28 Jun. 2004
Australia		In force: 10 Jul. 1974	217	In force: 12 Dec. 1997
Austria ⁴		Accession: 31 Jul. 1996	193	In force: 30 Apr. 2004
Azerbaijan		In force: 29 Apr. 1999	580	In force: 29 Nov. 2000
Bahamas ²	Amended: 25 Jul. 2007	In force: 12 Sep. 1997	544	
Bahrain	In force: 10 May 2009	In force: 10 May 2009	767	In force: 20 Jul. 2011
Bangladesh		In force: 11 Jun. 1982	301	In force: 30 Mar. 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 Apr. 2004
Belize ⁵	X	In force: 21 Jan. 1997	532	
<i>Benin</i>	<i>Amended: 15 Apr. 2008</i>	<i>Signed: 7 Jun. 2005</i>		<i>Signed: 7 Jun. 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 Apr. 2013	851	In force: 3 Jul. 2013
Botswana		In force: 24 Aug. 2006	694	In force: 24 Aug. 2006
Brazil ⁶		In force: 4 Mar. 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 Apr. 2003	618	In force: 17 Apr. 2003

State ^a	Small quantities protocols ^b	Safeguards agreements ^c	INFIRC	Additional protocols
Burundi	In force: 27 Sep. 2007	In force: 27 Sep. 2007	719	In force: 27 Sep. 2007
<i>Cabo Verde</i>	<i>Amended: 27 Mar. 2006</i>	<i>Signed: 28 Jun. 2005</i>		<i>Signed: 28 Jun. 2005</i>
Cambodia	Amended: 16 Jul. 2014	In force: 17 Dec. 1999	586	In force: 24 Apr. 2015
Cameroon	X	In force: 17 Dec. 2004	641	In force: 29 Sep. 2016
Canada		In force: 21 Feb. 1972	164	In force: 8 Sep. 2000
Central African Republic	In force: 7 Sep. 2009	In force: 7 Sep. 2009	777	In force: 7 Sep. 2009
Chad	In force: 13 May 2010	In force: 13 May 2010	802	In force: 13 May 2010
Chile ⁸		In force: 5 Apr. 1995	476	In force: 3 Nov. 2003
China		In force: 18 Sep. 1989	369*	In force: 28 Mar. 2002
Colombia ⁸		In force: 22 Dec. 1982	306	In force: 5 Mar. 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 Jun. 2011
Côte d'Ivoire		In force: 8 Sep. 1983	309	In force: 5 May 2016
Croatia ⁹		Accession: 1 Apr. 2017	193	Accession: 1 Apr. 2017
Cuba ²		In force: 3 Jun. 2004	633	In force: 3 Jun. 2004
Cyprus ¹⁰		Accession: 1 May 2008	193	Accession: 1 May 2008
Czech Republic ¹¹		Accession: 1 Oct. 2009	193	Accession: 1 Oct. 2009
Democratic Republic of the Congo		In force: 9 Nov. 1972	183	In force: 9 Apr. 2003
Denmark ¹²		In force: 1 Mar. 1972 In force: 21 Feb. 1977	176 193	In force: 22 Mar. 2013 In force: 30 Apr. 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 Apr. 1992	403	
Ecuador ²	Amended: 7 Apr. 2006	In force: 10 Mar. 1975	231	In force: 24 Oct. 2001
Egypt		In force: 30 Jun. 1982	302	
El Salvador ²	Amended: 10 Jun. 2011	In force: 22 Apr. 1975	232	In force: 24 May 2004

State ^a	Small quantities protocols ^b	Safeguards agreements ^c	INFCIRC	Additional protocols
<i>Equatorial Guinea</i>	<i>Approved: 13 Jun. 1986</i>	<i>Approved: 13 Jun. 1986</i>		
<i>Eritrea</i>				
Estonia ¹³		Accession: 1 Dec. 2005	193	Accession: 1 Dec. 2005
Eswatini ^d	Amended: 23 Jul. 2010	In force: 28 Jul. 1975	227	In force: 8 Sep. 2010
Ethiopia	X	In force: 2 Dec. 1977	261	
Fiji	X	In force: 22 Mar. 1973	192	In force: 14 Jul. 2006
Finland ¹⁴		Accession: 1 Oct. 1995	193	In force: 30 Apr. 2004
France	X	In force: 12 Sep. 1981 In force: 26 Oct. 2007 ¹⁵	290* 718	In force: 30 Apr. 2004
Gabon	Amended: 30 Oct. 2013	In force: 25 Mar. 2010	792	In force: 25 Mar. 2010
Gambia	Amended: 17 Oct. 2011	In force: 8 Aug. 1978	277	In force: 18 Oct. 2011
Georgia		In force: 3 Jun. 2003	617	In force: 3 Jun. 2003
Germany ¹⁶		In force: 21 Feb. 1977	193	In force: 30 Apr. 2004
Ghana		In force: 17 Feb. 1975	226	In force: 11 Jun. 2004
Greece ¹⁷		Accession: 17 Dec. 1981	193	In force: 30 Apr. 2004
Grenada ²	X	In force: 23 Jul. 1996	525	
Guatemala ²	Amended: 26 Apr. 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 Jun. 2013</i>	<i>Signed: 21 Jun. 2013</i>		<i>Signed: 21 Jun. 2013</i>
Guyana ²	X	In force: 23 May 1997	543	
Haiti ²	X	In force: 9 Mar. 2006	681	In force: 9 Mar. 2006
Holy See	Amended: 11 Sep. 2006	In force: 1 Aug. 1972	187	In force: 24 Sep. 1998
Honduras ²	Amended: 20 Sep. 2007	In force: 18 Apr. 1975	235	In force: 17 Nov. 2017
Hungary ¹⁸		Accession: 1 Jul. 2007	193	Accession: 1 Jul. 2007
Iceland	Amended: 15 Mar. 2010	In force: 16 Oct. 1974	215	In force: 12 Sep. 2003
India¹⁹		In force: 30 Sep. 1971 In force: 17 Nov. 1977 In force: 27 Sep. 1988 In force: 11 Oct. 1989 In force: 1 Mar. 1994 In force: 11 May 2009	211 260 360 374 433 754	In force: 25 Jul. 2014
Indonesia		In force: 14 Jul. 1980	283	In force: 29 Sep. 1999

State ^a	Small quantities protocols ^b	Safeguards agreements ^c	INFCIRC	Additional protocols
Iran, Islamic Republic of ²⁰		In force: 15 May 1974	214	Signed: 18 Dec. 2003
Iraq		In force: 29 Feb. 1972	172	In force: 10 Oct. 2012
Ireland		In force: 21 Feb. 1977	193	In force: 30 Apr. 2004
Israel		In force: 4 Apr. 1975	249/Add.1	
Italy		In force: 21 Feb. 1977	193	In force: 30 Apr. 2004
Jamaica ²		In force: 6 Nov. 1978	265	In force: 19 Mar. 2003
Japan		In force: 2 Dec. 1977	255	In force: 16 Dec. 1999
Jordan		In force: 21 Feb. 1978	258	In force: 28 Jul. 1998
Kazakhstan		In force: 11 Aug. 1995	504	In force: 9 May 2007
Kenya	In force: 18 Sep. 2009	In force: 18 Sep. 2009	778	In force: 18 Sep. 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 Jul. 2013	In force: 7 Mar. 2002	607	In force: 2 Jun. 2003
Kyrgyzstan	X	In force: 3 Feb. 2004	629	In force: 10 Nov. 2011
Lao People's Democratic Republic	X	In force: 5 Apr. 2001	599	Signed: 5 Nov. 2014
Latvia ²¹		Accession: 1 Oct. 2008	193	Accession: 1 Oct. 2008
Lebanon	Amended: 5 Sep. 2007	In force: 5 Mar. 1973	191	
Lesotho	Amended: 8 Sep. 2009	In force: 12 Jun. 1973	199	In force: 26 Apr. 2010
Liberia	In force: 10 Dec. 2018	In force: 10 Dec. 2018	927	In force: 10 Dec. 2018
Libya		In force: 8 Jul. 1980	282	In force: 11 Aug. 2006
Liechtenstein		In force: 4 Oct. 1979	275	In force: 25 Nov. 2015
Lithuania ²²		Accession: 1 Jan. 2008	193	Accession: 1 Jan. 2008
Luxembourg		In force: 21 Feb. 1977	193	In force: 30 Apr. 2004
Madagascar	Amended: 29 May 2008	In force: 14 Jun. 1973	200	In force: 18 Sep. 2003
Malawi	Amended: 29 Feb. 2008	In force: 3 Aug. 1992	409	In force: 26 Jul. 2007
Malaysia		In force: 29 Feb. 1972	182	Signed: 22 Nov. 2005
Maldives	X	In force: 2 Oct. 1977	253	
Mali	Amended: 18 Apr. 2006	In force: 12 Sep. 2002	615	In force: 12 Sep. 2002

State ^a	Small quantities protocols ^b	Safeguards agreements ^c	INFCIRC	Additional protocols
Malta ²³		Accession: 1 Jul. 2007	193	Accession: 1 Jul. 2007
Marshall Islands		In force: 3 May 2005	653	In force: 3 May 2005
Mauritania	Amended: 20 Mar. 2013	In force: 10 Dec. 2009	788	In force: 10 Dec. 2009
Mauritius	Amended: 26 Sep. 2008	In force: 31 Jan. 1973	190	In force: 17 Dec. 2007
Mexico ²⁴		In force: 14 Sep. 1973	197	In force: 4 Mar. 2011
<i>Micronesia, Federated States of</i>	<i>Signed: 1 Jun. 2015</i>	<i>Signed: 1 Jun. 2015</i>		
Monaco	Amended: 27 Nov. 2008	In force: 13 Jun. 1996	524	In force: 30 Sep. 1999
Mongolia	X	In force: 5 Sep. 1972	188	In force: 12 May 2003
Montenegro	In force: 4 Mar. 2011	In force: 4 Mar. 2011	814	In force: 4 Mar. 2011
Morocco		In force: 18 Feb. 1975	228	In force: 21 Apr. 2011
Mozambique	In force: 1 Mar. 2011	In force: 1 Mar. 2011	813	In force: 1 Mar. 2011
Myanmar	X	In force: 20 Apr. 1995	477	Signed: 17 Sep. 2013
Namibia	X	In force: 15 Apr. 1998	551	In force: 20 Feb. 2012
Nauru	X	In force: 13 Apr. 1984	317	
Nepal	X	In force: 22 Jun. 1972	186	
Netherlands	X	In force: 5 Jun. 1975 ¹⁵ In force: 21 Feb. 1977	229 193	In force: 30 Apr. 2004
New Zealand ²⁵	Amended: 24 Feb. 2014	In force: 29 Feb. 1972	185	In force: 24 Sep. 1998
Nicaragua ²	Amended: 12 Jun. 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		In force: 29 Feb. 1988	358	In force: 4 Apr. 2007
North Macedonia ^e	Amended: 9 Jul. 2009	In force: 16 Apr. 2002	610	In force: 11 May 2007
Norway		In force: 1 Mar. 1972	177	In force: 16 May 2000
Oman	X	In force: 5 Sep. 2006	691	
Pakistan		In force: 5 Mar. 1962 In force: 17 Jun. 1968 In force: 17 Oct. 1969 In force: 18 Mar. 1976 In force: 2 Mar. 1977 In force: 10 Sep. 1991 In force: 24 Feb. 1993 In force: 22 Feb. 2007 In force: 15 Apr. 2011 In force: 3 May 2017	34 116 135 239 248 393 418 705 816 920	

State ^a	Small quantities protocols ^b	Safeguards agreements ^c	INFCIRC	Additional protocols
Palau	Amended: 15 Mar. 2006	In force: 13 May 2005	650	In force: 13 May 2005
Panama ⁸	Amended: 4 Mar. 2011	In force: 23 Mar. 1984	316	In force: 11 Dec. 2001
Papua New Guinea	X	In force: 13 Oct. 1983	312	
Paraguay ²	Amended: 17 Jul. 2018	In force: 20 Mar. 1979	279	In force: 15 Sep. 2004
Peru ²		In force: 1 Aug. 1979	273	In force: 23 Jul. 2001
Philippines		In force: 16 Oct. 1974	216	In force: 26 Feb. 2010
Poland ²⁶		Accession: 1 Mar. 2007	193	Accession: 1 Mar. 2007
Portugal ²⁷		Accession: 1 Jul. 1986	193	In force: 30 Apr. 2004
Qatar	In force: 21 Jan. 2009	In force: 21 Jan. 2009	747	
Republic of Moldova	Amended: 1 Sep. 2011	In force: 17 May 2006	690	In force: 1 Jun. 2012
Romania ²⁸		Accession: 1 May 2010	193	Accession: 1 May 2010
Russian Federation		In force: 10 Jun. 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	
Saint 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 Sep. 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	In force: 24 Jul. 2017
Serbia ²⁹		In force: 28 Dec. 1973	204	In force: 17 Sep. 2018
Seychelles	Amended: 31 Oct. 2006	In force: 19 Jul. 2004	635	In force: 13 Oct. 2004
Sierra Leone	X	In force: 4 Dec. 2009	787	
Singapore	Amended: 31 Mar. 2008	In force: 18 Oct. 1977	259	In force: 31 Mar. 2008
Slovakia ³⁰		Accession: 1 Dec. 2005	193	Accession: 1 Dec. 2005
Slovenia ³¹		Accession: 1 Sep. 2006	193	Accession: 1 Sep. 2006
Solomon Islands	X	In force: 17 Jun. 1993	420	

State ^a	Small quantities protocols ^b	Safeguards agreements ^c	INFCIRC	Additional protocols
<i>Somalia</i>				
South Africa		In force: 16 Sep. 1991	394	In force: 13 Sep. 2002
Spain		Accession: 5 Apr. 1989	193	In force: 30 Apr. 2004
Sri Lanka		In force: 6 Aug. 1984	320	Approved: 12 Sep. 2018
<i>State of Palestine³²</i>	<i>Approved: 7 Mar. 2018</i>	<i>Approved: 7 Mar. 2018</i>		
Sudan	X	In force: 7 Jan. 1977	245	
Suriname ²	X	In force: 2 Feb. 1979	269	
Sweden ³³		Accession: 1 Jun. 1995	193	In force: 30 Apr. 2004
Switzerland		In force: 6 Sep. 1978	264	In force: 1 Feb. 2005
Syrian Arab Republic		In force: 18 May 1992	407	
Tajikistan		In force: 14 Dec. 2004	639	In force: 14 Dec. 2004
Thailand		In force: 16 May 1974	241	In force: 17 Nov. 2017
<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	Amended: 3 Apr. 2018	In force: 18 Nov. 1993	426	
Trinidad and Tobago ²	X	In force: 4 Nov. 1992	414	
Tunisia		In force: 13 Mar. 1990	381	Signed: 24 May 2005
Turkey		In force: 1 Sep. 1981	295	In force: 17 Jul. 2001
Turkmenistan		In force: 3 Jan. 2006	673	In force: 3 Jan. 2006
Tuvalu	X	In force: 15 Mar. 1991	391	
Uganda	Amended: 24 Jun. 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		In force: 9 Oct. 2003	622	In force: 20 Dec. 2010
United Kingdom	Signed: 6 Jan. 1993	In force: 14 Dec. 1972 ³⁴ In force: 14 Aug. 1978 Signed: 6 Jan. 1993 ¹⁵ Signed: 7 Jun. 2018*	175 263*	In force: 30 Apr. 2004 Signed: 7 Jun. 2018
United Republic of Tanzania	Amended: 10 Jun. 2009	In force: 7 Feb. 2005	643	In force: 7 Feb. 2005
United States of America	Amended: 3 Jul. 2018	In force: 9 Dec. 1980 In force: 6 Apr. 1989 ¹⁵	288* 366	In force: 6 Jan. 2009
Uruguay ²		In force: 17 Sep. 1976	157	In force: 30 Apr. 2004

State ^a	Small quantities protocols ^b	Safeguards agreements ^c	INFCIRC	Additional protocols
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 Mar. 1982	300	
Viet Nam		In force: 23 Feb. 1990	376	In force: 17 Sep. 2012
Yemen	X	In force: 14 Aug. 2002	614	
Zambia	X	In force: 22 Sep. 1994	456	Signed: 13 May 2009
Zimbabwe	Amended: 31 Aug. 2011	In force: 26 Jun. 1995	483	

Key

Bold States not party to the Treaty on 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.

^d The name 'Eswatini' replaces the former name 'Swaziland' as of 29 June 2018.

^e The name 'North Macedonia' replaces the former name 'The former Yugoslav Republic of Macedonia' as of 15 February 2019.

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 Croatia under the NPT bilateral safeguards agreement (INFCIRC/463), in force since 19 January 1995, was suspended on 1 April 2017, 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 Croatia had acceded, entered into force for Croatia.
- ¹⁰ 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.
- ¹¹ 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.
- ¹² 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).
- ¹³ 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.
- ¹⁴ 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.
- ¹⁵ The safeguards agreement is in connection with Additional Protocol I to the Treaty of Tlatelolco.
- ¹⁶ 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.
- ¹⁷ 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.
- ¹⁸ 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.
- ¹⁹ 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.
- ²⁰ Pending entry into force, the Additional Protocol is being applied provisionally for the Islamic Republic of Iran as of 16 January 2016.
- ²¹ 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.
- ²² 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.
- ²³ 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.
- ²⁴ 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.
- ²⁵ 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).

- ²⁶ 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.
- ²⁷ 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.
- ²⁸ 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.
- ²⁹ 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.
- ³⁰ 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.
- ³¹ 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.
- ³² The designation employed does not imply the expression of any opinion whatsoever concerning the legal status of any country or territory or of its authorities, or concerning the delimitation of its frontiers.
- ³³ 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.
- ³⁴ 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 (status as of 31 December 2018)

	State/Organization ^a	P&I	ENC	AC	CNS	JC	CPPNM	A/CPNPM	VC	A-VC	CSC	JP
*	Afghanistan						X					
*	Albania	X	X	X	X	X	X	X				
*	Algeria		X	X			X	X				
	Andorra						X					
*	Angola		X									
*	Antigua and Barbuda						X	X				
*	Argentina	X	X	X	X	X	X	X	X	X	X	
*	Armenia		X	X	X	X	X	X	X			
*	Australia	X	X	X	X	X	X	X				
*	Austria		X	X	X	X	X	X				
*	Azerbaijan						X	X				
*	Bahamas						X					
*	Bahrain		X		X		X	X				
*	Bangladesh		X	X	X		X	X				
*	Barbados											
*	Belarus	X	X	X	X	X	X		X	X		
*	Belgium	X	X	X	X	X	X	X				
*	Belize											
*	Benin	X										
	Bhutan											
*	Bolivia, Plurinational State of	X	X	X			X	X	X			
*	Bosnia and Herzegovina	X	X	X	X	X	X	X	X	X		
*	Botswana		X	X		X	X	X				
*	Brazil	X	X	X	X	X	X		X			
*	Brunei Darussalam	X										
*	Bulgaria	X	X	X	X	X	X	X	X			X

	State/Organization ^a	P&I	ENC	AC	CNS	JC	CPPNM	A/CPNM	VC	A-VC	CSC	JP
*	Burkina Faso		X	X			X	X				
*	Burundi											
	Cabo Verde						X					
*	Cambodia		X		X		X					
*	Cameroon	X	X	X			X	X	X			X
*	Canada	X	X	X	X	X	X	X			X	
*	Central African Republic						X					
*	Chad											
*	Chile	X	X	X	X	X	X	X	X			X
*	China	X	X	X	X	X	X	X				
*	Colombia	X	X	X			X	X				
	Comoros						X					
*	Congo	X										
*	Costa Rica		X	X			X	X				
*	Côte d'Ivoire						X	X				
*	Croatia	X	X	X	X	X	X	X	X			X
*	Cuba	X	X	X	X	X	X	X	X			
*	Cyprus	X	X	X	X	X	X	X				
*	Czech Republic	X	X	X	X	X	X	X	X			X
	Dem. People's Rep. of Korea											
*	Dem. Rep. of the Congo	X					X					
*	Denmark	X	X	X	X	X	X	X				X
*	Djibouti						X	X				
*	Dominica						X					
*	Dominican Republic		X				X	X				
*	Ecuador	X					X	X				
*	Egypt	X	X	X					X			X
*	El Salvador		X	X			X	X				

	State/Organization ^a	P&I	ENC	AC	CNS	JC	CPPNM	A/CPPNM	VC	A-VC	CSC	JP
	Equatorial Guinea						X					
*	Eritrea											
*	Estonia	X	X	X	X	X	X	X	X			X
*	Eswatini ^b						X	X				
*	Ethiopia											
*	Fiji						X	X				
*	Finland	X	X	X	X	X	X	X				X
*	France		X	X	X	X	X	X				X
*	Gabon		X	X		X	X	X				
	Gambia											
*	Georgia		X	X		X	X	X				
*	Germany	X	X	X	X	X	X	X				X
*	Ghana	X	X	X	X	X	X	X			X	
*	Greece	X	X	X	X	X	X	X				X
*	Grenada						X					
*	Guatemala		X	X			X					
	Guinea						X					
	Guinea-Bissau						X					
*	Guyana						X					
*	Haiti											
*	Holy See	X										
*	Honduras						X					
*	Hungary	X	X	X	X	X	X	X	X			X
*	Iceland	X	X	X	X	X	X	X				
*	India	X	X	X	X		X	X			X	
*	Indonesia	X	X	X	X	X	X	X				
*	Iran, Islamic Republic of	X	X	X								
*	Iraq	X	X	X			X					

	State/Organization ^a	P&I	ENC	AC	CNS	JC	CPPNM	A/CPNM	VC	A-VC	CSC	JP
*	Ireland	X	X	X	X	X	X	X				
*	Israel		X	X			X	X				
*	Italy	X	X	X	X	X	X	X				X
*	Jamaica	X					X	X				
*	Japan	X	X	X	X	X	X	X			X	
*	Jordan	X	X	X	X	X	X	X	X	X		
*	Kazakhstan	X	X	X	X	X	X	X	X	X		
*	Kenya						X	X				
	Kiribati											
*	Korea, Republic of	X	X	X	X	X	X	X				
*	Kuwait	X	X	X	X		X	X				
*	Kyrgyzstan					X	X	X				
*	Lao People's Dem. Rep.		X	X			X					
*	Latvia	X	X	X	X	X	X	X	X	X		X
*	Lebanon		X	X	X		X		X			
*	Lesotho		X	X		X	X	X				
*	Liberia											
*	Libya		X	X	X		X	X				
*	Liechtenstein		X	X			X	X				
*	Lithuania	X	X	X	X	X	X	X	X			X
*	Luxembourg	X	X	X	X	X	X	X				
*	Madagascar		X	X	X	X	X	X				
*	Malawi						X					
*	Malaysia		X	X								
	Maldives											
*	Mali		X	X	X		X	X				
*	Malta				X	X	X	X				
*	Marshall Islands						X	X				

	State/Organization ^a	P&I	ENC	AC	CNS	JC	CPPNM	A/CPNM	VC	A-VC	CSC	JP
*	Mauritania		X	X		X	X	X				
*	Mauritius	X	X	X		X			X			
*	Mexico	X	X	X	X	X	X	X	X			
	Micronesia, Federated States of											
*	Monaco		X	X			X	X				
*	Mongolia	X	X	X			X					
*	Montenegro	X	X	X	X	X	X	X	X	X	X	
*	Morocco	X	X	X		X	X	X		X	X	
*	Mozambique	X	X	X			X					
*	Myanmar		X		X		X	X				
*	Namibia						X	X				
	Nauru						X	X				
*	Nepal											
*	Netherlands	X	X	X	X	X	X	X				X
*	New Zealand	X	X	X			X	X				
*	Nicaragua	X	X	X			X	X				
*	Niger	X		X	X	X	X	X	X	X		
*	Nigeria	X	X	X	X	X	X	X	X			
	Niue						X					
*	North Macedonia ^c		X	X	X	X	X	X	X			
*	Norway	X	X	X	X	X	X	X				X
*	Oman	X	X	X	X	X	X					
*	Pakistan	X	X	X	X		X	X				
*	Palau	X					X					
	Palestine						X ^d	X ^d				
*	Panama		X	X			X	X				
*	Papua New Guinea											
*	Paraguay		X	X	X	X	X	X				

	State/Organization ^a	P&I	ENC	AC	CNS	JC	CPPNM	A/CPNM	VC	A-VC	CSC	JP
*	Peru		X	X	X	X	X	X	X			
*	Philippines	X	X	X			X		X			
*	Poland	X	X	X	X	X	X	X	X	X		X
*	Portugal	X	X	X	X	X	X	X				
*	Qatar		X	X			X	X				
*	Republic of Moldova	X	X	X	X	X	X	X	X			
*	Romania	X	X	X	X	X	X	X	X	X	X	X
*	Russian Federation	X	X	X	X	X	X	X	X			
*	Rwanda						X					
	Saint Kitts and Nevis						X					
	Saint Lucia						X	X				
*	Saint Vincent and the Grenadines		X	X					X			X
	Samoa											
*	San Marino						X	X				
	São Tomé and Príncipe											
*	Saudi Arabia		X	X	X	X	X	X	X	X		
*	Senegal	X	X	X	X	X	X	X	X			
*	Serbia	X	X	X	X	X	X	X	X			
*	Seychelles						X	X				
*	Sierra Leone											
*	Singapore	X	X	X	X		X	X				
*	Slovakia	X	X	X	X	X	X	X	X			X
*	Slovenia	X	X	X	X	X	X	X				X
	Solomon Islands											
	Somalia											
*	South Africa	X	X	X	X	X	X					
	South Sudan											
*	Spain	X	X	X	X	X	X	X				

	State/Organization ^a	P&I	ENC	AC	CNS	JC	CPPNM	A/CPNM	VC	A-VC	CSC	JP
*	Sri Lanka		X	X	X							
*	Sudan						X					
	Suriname											
*	Sweden	X	X	X	X	X	X	X				X
*	Switzerland	X	X	X	X	X	X	X				
*	Syrian Arab Republic	X	X	X	X							
*	Tajikistan	X	X	X		X	X	X				
*	Thailand	X	X	X	X	X	X	X				
	Timor Leste											
*	Togo						X					
	Tonga						X					
*	Trinidad and Tobago						X		X			
*	Tunisia	X	X	X	X		X	X				
*	Turkey	X	X	X	X		X	X				X
*	Turkmenistan						X	X				
	Tuvalu											
*	Uganda						X					
*	Ukraine	X	X	X	X	X	X	X	X			X
*	United Arab Emirates		X	X	X	X	X	X		X	X	X
*	United Kingdom	X	X	X	X	X	X	X				
*	United Republic of Tanzania		X	X			X					
*	United States of America		X	X	X	X	X	X			X	
*	Uruguay		X	X	X	X	X	X	X			X
*	Uzbekistan					X	X	X				
*	Vanuatu											
*	Venezuela, Bolivarian Republic of		X									
*	Viet Nam	X	X	X	X	X	X	X				
*	Yemen						X					

	State/Organization ^a	P&I	ENC	AC	CNS	JC	CPPNM	A/CPPNM	VC	A-VC	CSC	JP
*	Zambia						X					
*	Zimbabwe											
	Euratom		X	X	X	X	X	X				
	FAO		X	X								
	WHO		X	X								
	WMO		X	X								

P&I	Agreement on the Privileges and Immunities of the IAEA
ENC	Convention on Early Notification of a Nuclear Accident
AC	Convention on Assistance in the Case of a Nuclear Accident or Radiological Emergency
CNS	Convention on Nuclear Safety
JC	Joint Convention on the Safety of Spent Fuel Management and on the Safety of Radioactive Waste Management
CPPNM	Convention on the Physical Protection of Nuclear Material
A/CPPNM	Amendment to the Convention on the Physical Protection of Nuclear Material
VC	Vienna Convention on Civil Liability for Nuclear Damage
A-VC	Protocol to Amend the Vienna Convention on Civil Liability for Nuclear Damage
CSC	Convention on Supplementary Compensation for Nuclear Damage
JP	Joint Protocol Relating to the Application of the Vienna Convention and the Paris Convention
*	Agency Member State
X	Party

^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 The name 'Eswatini' replaces the former name 'Swaziland' as of 29 June 2018.

^c The name 'North Macedonia' replaces the former name 'The former Yugoslav Republic of Macedonia' as of 15 February 2019.

^d Acceded as State of Palestine.

**Table A8. Member States that have concluded a Revised Supplementary Agreement
(status as of 31 December 2018)**

Afghanistan	Georgia	North Macedonia ^b
Albania	Ghana	Oman
Algeria	Greece	Pakistan
Angola	Guatemala	Palau
Antigua and Barbuda	Haiti	Panama
Argentina	Honduras	Paraguay
Armenia	Hungary	Peru
Azerbaijan	Iceland	Philippines
Bahrain	Indonesia	Poland
Bangladesh	Iran, Islamic Republic of	Portugal
Belarus	Iraq	Qatar
Belize	Ireland	Republic of Moldova
Benin	Israel	Romania
Bolivia, Plurinational State of	Jamaica	Rwanda
Bosnia and Herzegovina	Jordan	Saudi Arabia
Botswana	Kazakhstan	Senegal
Brazil	Kenya	Serbia
Bulgaria	Korea, Republic of	Seychelles
Burkina Faso	Kuwait	Sierra Leone
Burundi	Kyrgyzstan	Singapore
Cambodia	Lao People's Democratic Republic	Slovakia
Cameroon	Latvia	Slovenia
Central African Republic	Lebanon	South Africa
Chad	Lesotho	Spain
Chile	Liberia	Sri Lanka
China	Libya	Sudan
Colombia	Lithuania	Syrian Arab Republic
Congo	Madagascar	Tajikistan
Costa Rica	Malawi	Thailand
Côte d'Ivoire	Malaysia	Togo
Croatia	Mali	Tunisia
Cuba	Malta	Turkey
Cyprus	Marshall Islands	Turkmenistan
Czech Republic	Mauritania	Uganda
Democratic Republic of the Congo	Mauritius	Ukraine
Djibouti	Mexico	United Arab Emirates
Dominica	Mongolia	United Republic of Tanzania
Dominican Republic	Montenegro	Uruguay
Ecuador	Morocco	Uzbekistan
Egypt	Mozambique	Vanuatu
El Salvador	Myanmar	Venezuela, Bolivarian Republic of
Estonia	Namibia	Viet Nam
Eswatini ^a	Nepal	Zambia
Ethiopia	Nicaragua	Zimbabwe
Fiji	Niger	
Gabon	Nigeria	

^a The name 'Eswatini' replaces the former name 'Swaziland' as of 29 June 2018.

^b The name 'North Macedonia' replaces the former name 'The former Yugoslav Republic of Macedonia' as of 15 February 2019.

**Table A9. Acceptance of Amendment to Article VI of the Agency's Statute
(status as of 31 December 2018)**

Afghanistan	Greece	Pakistan
Albania	Holy See	Panama
Algeria	Hungary	Peru
Argentina	Iceland	Poland
Austria	Ireland	Portugal
Belarus	Israel	Republic of Moldova
Bosnia and Herzegovina	Italy	Romania
Brazil	Japan	San Marino
Bulgaria	Korea, Republic of	Slovakia
Canada	Latvia	Slovenia
Colombia	Libya	South Africa
Croatia	Liechtenstein	Spain
Cyprus	Lithuania	Sweden
Czech Republic	Luxembourg	Switzerland
Denmark	Malta	Tunisia
El Salvador	Mexico	Turkey
Estonia	Monaco	Ukraine
Ethiopia	Morocco	United Kingdom
Finland	Myanmar	Uruguay
France	Netherlands	
Germany	Norway	

**Table A10. Acceptance of Amendment to Article XIV.A of the Agency's Statute
(status as of 31 December 2018)**

Albania	Greece	Pakistan
Algeria	Holy See	Peru
Argentina	Hungary	Poland
Australia	Iceland	Portugal
Austria	Iran, Islamic Republic of	Republic of Moldova
Belarus	Ireland	Romania
Bosnia and Herzegovina	Italy	San Marino
Brazil	Japan	Seychelles
Bulgaria	Kenya	Slovakia
Canada	Korea, Republic of	Slovenia
Colombia	Latvia	South Africa
Croatia	Liechtenstein	Spain
Cyprus	Lithuania	Sweden
Czech Republic	Luxembourg	Switzerland
Denmark	Malta	Syrian Arab Republic
Ecuador	Mexico	Tunisia
Estonia	Monaco	Turkey
Finland	Myanmar	Ukraine
France	Netherlands	United Kingdom
Germany	Norway	

Table A11. 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 2018, there were 2 new Parties to the Agreement. By the end of the year, there were 86 Parties.

Convention on Early Notification of a Nuclear Accident (reproduced in INFCIRC/335). Entered into force on 27 October 1986. In 2018, there was 1 new Party to the Convention. By the end of the year, there were 122 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 2018, there were 2 new Parties to the Convention. By the end of the year, there were 117 Parties.

Convention on Nuclear Safety (reproduced in INFCIRC/449). Entered into force on 24 October 1996. In 2018, there were 2 new Parties to the Convention. By the end of the year, there were 85 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 2018, there were 4 new Parties to the Convention. By the end of the year, there were 80 Parties.

Convention on the Physical Protection of Nuclear Material (reproduced in INFCIRC/274/Rev.1). Entered into force on 8 February 1987. In 2018, there were 2 new Parties to the Convention. By the end of the year, there were 157 Parties.

Amendment to the Convention on the Physical Protection of Nuclear Material. Entered into force on 8 May 2016. In 2018, there were 3 new Parties to the Amendment. By the end of the year, there were 118 Parties.

Vienna Convention on Civil Liability for Nuclear Damage (reproduced in INFCIRC/500). Entered into force on 12 November 1977. In 2018, 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 2018, the status of the Protocol remained unchanged with 2 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 2018, the status of the Protocol remained unchanged with 13 Parties.

Convention on Supplementary Compensation for Nuclear Damage (reproduced in INFCIRC/567). Entered into force on 15 April 2015. In 2018, the status of the Convention remained unchanged with 10 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 2018, the status of the Protocol remained unchanged with 28 Parties.

Revised Supplementary Agreements Concerning the Provision of Technical Assistance by the IAEA (RSA). In 2018, 2 RSAs were concluded. By the end of the year, there were 136 States party to an RSA.

Regional Co-operative Agreement for Research, Development and Training Related to Nuclear Science and Technology, 2017 (2017 RCA) (reproduced in INFCIRC/919). Entered into force on 11 June 2017. In 2018, there were 2 new Parties to the Agreement. By the end of the year, there were 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 2018, there were 4 new Parties to the Agreement. By the end of the year, there were 41 Parties.

Co-operation Agreement for the Promotion of Nuclear Science and Technology in Latin America and the Caribbean (ARCAL) (First Extension) (reproduced in INFCIRC/582/Add.4). Entered into force on 5 September 2015. In 2018, the status of the Agreement remained unchanged with 21 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 2018, the status of the Agreement remained unchanged with 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 2018, 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 2018, the status of the Agreement remained unchanged with 6 Parties.

**Table A12. Nuclear power reactors in operation and under construction in the world
(as of 31 December 2018)^a**

Country	Reactors in operation		Reactors under construction		Nuclear electricity supplied in 2018		Total operating experience through 2018	
	No. of units	Total MW(e)	No. of units	Total MW(e)	TW-h	% of total	Years	Months
Argentina	3	1 633	1	25	6.5	4.7	85	2
Armenia	1	375			1.9	25.6	44	8
Bangladesh			2	2 160				
Belarus			2	2 220				
Belgium	7	5 918			27.3	39.0	296	7
Brazil	2	1 884	1	1 340	14.8	2.7	55	3
Bulgaria	2	1 966			15.4	34.7	165	3
Canada	19	13 554			94.4	14.9	750	6
China	46	42 858	11	10 982	277.1	4.2	322	11
Czech Republic	6	3 932			28.3	34.5	164	10
Finland	4	2 784	1	1 600	21.9	32.4	159	4
France	58	63 130	1	1 630	395.9	71.7	2 222	4
Germany	7	9 515			71.9	11.7	839	7
Hungary	4	1 902			14.9	50.6	134	2
India	22	6 255	7	4 824	35.4	3.1	504	11
Iran, Islamic Republic of	1	915			6.3	2.1	7	4
Japan	38	36 476	2	2 653	49.3	6.2	1 863	2
Korea, Republic of	24	22 444	5	6 700	127.1	23.7	547	5
Mexico	2	1 552			13.2	5.3	53	11
Netherlands	1	482			3.3	3.1	74	0
Pakistan	5	1 318	2	2 028	9.3	6.8	77	5
Romania	2	1 300			10.5	17.2	33	11
Russian Federation	36	27 252	6	4 573	191.3	17.9	1 298	6
Slovakia	4	1 814	2	880	13.8	55.0	168	7
Slovenia	1	688			5.5	35.9	37	3

Country	Reactors in operation		Reactors under construction		Nuclear electricity supplied in 2018		Total operating experience through 2018	
	No. of units	Total MW(e)	No. of units	Total MW(e)	TW-h	% of total	Years	Months
South Africa	2	1 860			10.6	4.7	68	3
Spain	7	7 121			53.4	20.4	336	1
Sweden	8	8 613			65.9	40.3	459	0
Switzerland	5	3 333			24.5	37.7	219	11
Turkey			1	1 114				
Ukraine	15	13 107	2	2 070	79.5	53.0	503	6
United Arab Emirates			4	5 380				
United Kingdom	15	8 923	1	1 630	59.1	17.7	1 604	7
United States of America	98	99 061	2	2 234	808.0	19.3	4 408	6
Total^{b, c}	450	396 413	55	56 643	2 563.0		17 880	11

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

^b The total figures include the following data from Taiwan, China: 5 units, 4448 MW(e) in operation; 2 units, 2600 MW(e) under construction; 26.7 TW-h of nuclear electricity generation, representing 11.4% 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) and Lithuania (43 years, 6 months), and shutdown and operational plants in Taiwan, China (224 years, 1 month).

Table A13. 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			7				
Algeria	4			5				
Angola	1			3				
Antigua and Barbuda								
Argentina	42	1	1			1		
Armenia	2			0				
Australia	35	1	3					
Austria	22		2		3			
Azerbaijan	1			2				
Bahamas								
Bahrain				6				
Bangladesh	23			11				
Barbados								
Belarus	4		1	19				
Belgium	21		2					
Belize								
Benin	1							
Bolivia, Plurinational State of								
				2				
Bosnia and Herzegovina	1		3	10				
Botswana	1							
Brazil	49	3	4					
Brunei Darussalam								
Bulgaria	7		2	2	1			
Burkina Faso	7	1			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	QUAADRIL ^c	QUATRO ^d
Burundi					1			
Cambodia	1			3				
Cameroon	6				1			
Canada	32		3					
Central African Republic								
Chad								
Chile	19		1					
China	86		3	14				
Colombia	6			34		1		
Congo								
Costa Rica	2	1	1					
Côte d'Ivoire	1				1			
Croatia	13		2	10				
Cuba	13		3	8				
Cyprus			1	0				1
Czech Republic	8		1					
Dem. Rep. of the Congo	1							
Denmark	4		1					
Djibouti	1							
Dominica								
Dominican Republic								
Ecuador	2		1	1				
Egypt	24		1	11				
El Salvador				4				
Eritrea								
Estonia	7		1	2		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	QUAADRIL ^c	QUATRO ^d
Eswatini ^e								
Ethiopia	7		1					
Fiji								
Finland	10		1					
France	50	2	5					
Gabon								
Georgia	2							
Germany	46		3		6			
Ghana	13			2	1			
Greece	14		5					
Grenada								
Guatemala	8							
Guyana								
Haiti								
Holy See								
Honduras								
Hungary	19	2	2	13	1			
Iceland			1					
India	69	1	3	76				
Indonesia	24	2	1	2				
Iran, Islamic Republic of	16		1					
Iraq	1		1	3	3			
Ireland			1					
Israel	8		2	25			1	
Italy	50	1	8					
Jamaica	6		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	QUAADRIL ^c	QUATRO ^d
Japan	47	2	1					
Jordan	6		1	4				
Kazakhstan	1		1	28				
Kenya	14		1	10				
Korea, Republic of	37	2	2			1		
Kuwait	5		1					
Kyrgyzstan								
Lao People's Dem. Rep.	1			4				
Latvia			1	5				
Lebanon	3		1	13				1
Lesotho					1			
Liberia								
Libya								
Liechtenstein								
Lithuania	5		3	10				
Luxembourg			1					
Madagascar	4		1					
Malawi					1			
Malaysia	24	2	1	27				
Mali	2				1			
Malta				6				1
Marshall Islands								
Mauritania								
Mauritius	3							
Mexico	24	2	3	1				
Monaco								
Mongolia	3		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	QUAADRIL ^c	QUATRO ^d
Montenegro	2		1					
Morocco	23	1	1	15		1		1
Mozambique								
Myanmar	3		1	2				
Namibia				1	1			
Nepal	1			2				
Netherlands	10	1	4		4			
New Zealand	4		1					
Nicaragua	1							
Niger								
Nigeria	6							
North Macedonia ^f	5		1	3				
Norway	6		2					
Oman					1			
Pakistan	41		1					
Palau								
Panama	1		1	2				
Papua New Guinea	1							
Paraguay								
Peru	10		1	15				
Philippines	14	1	1					
Poland	23	1	5		1			
Portugal	9		1					
Qatar			1		2			
Republic of Moldova	1			3				
Romania	12		3	47	2			
Russian Federation	44		3	59				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	QUAADRIL ^c	QUATRO ^d
Rwanda								
Saint Vincent and the Grenadines								
San Marino								
Saudi Arabia	4	1	1	18				
Senegal	7			3	1			
Serbia	7		5	14				
Seychelles								
Sierra Leone					1			
Singapore	13		1					
Slovakia	5		3					
Slovenia	8		1	4				
South Africa	34		3	50				1
Spain	37	1	2					
Sri Lanka	12		1	13				
Sudan	6				2			
Sweden	8		2					
Switzerland	5	1	3					
Syrian Arab Republic	7		1					
Tajikistan	1		1	1				
Thailand	23		2	15		1	1	1
Togo								
Trinidad and Tobago				6				
Tunisia	7		1	25				
Turkey	14		2	40				
Turkmenistan								
Uganda	7			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	QUAADRIL ^c	QUATRO ^d
Ukraine	22		1	46				
United Arab Emirates	1	1	2	5				1
United Kingdom	51		4		3			
United Republic of Tanzania	2			5	1			
United States of America	110	1	7					
Uruguay	14		1					
Uzbekistan	2				2			
Vanuatu								
Venezuela, Bolivarian Republic of	2		2	26				
Viet Nam	22	1						
Yemen								
Zambia	6		1					
Zimbabwe	1			3	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.

^e The name 'Eswatini' replaces the former name 'Swaziland' as of 29 June 2018.

^f The name 'North Macedonia' replaces the former name 'The former Yugoslav Republic of Macedonia' as of 15 February 2019.

Table A14. Advisory Missions on Regulatory Infrastructure for Radiation Safety (AMRAS) in 2018

Type	Country
AMRAS	Angola
AMRAS	Benin
AMRAS	Plurinational State of Bolivia
AMRAS	Burkina Faso
AMRAS	El Salvador
AMRAS	Eswatini ^a
AMRAS	Kuwait
AMRAS	Liberia
AMRAS	Mozambique
AMRAS	Rwanda
AMRAS follow-up	Paraguay
AMRAS follow-up	Uganda
AMRAS follow-up	Uruguay

^a The name 'Eswatini' replaces the former name 'Swaziland' as of 29 June 2018.

Table A15. Integrated Review Service for Radioactive Waste and Spent Fuel Management, Decommissioning and Remediation (ARTEMIS) missions in 2018

Type	Country
ARTEMIS	Brazil
ARTEMIS	Bulgaria
ARTEMIS	France
ARTEMIS	Italy
ARTEMIS	Luxembourg
ARTEMIS	Spain

Table A16. Education and Training Appraisal (EduTA) missions in 2018

Type	Country
EduTA	Tajikistan

Table A17. Emergency Preparedness Review (EPREV) missions in 2018

Type	Country
EPREV	Belarus
EPREV	Cuba

Table A18. Integrated missions of the Agency's Programme of Action for Cancer Therapy (imPACT) in 2018

Type	Country
imPACT	Afghanistan
imPACT	Guyana
imPACT	Indonesia
imPACT	Mauritius
imPACT	Mexico
imPACT	North Macedonia ^a
imPACT	Ukraine

^a The name 'North Macedonia' replaces the former name 'The former Yugoslav Republic of Macedonia' as of 15 February 2019.

Table A19. Integrated Nuclear Infrastructure Review (INIR) missions in 2018

Type	Country
INIR Phase 1	Niger
INIR Phase 1	Philippines
INIR Phase 1	Sudan
INIR Phase 2	Saudi Arabia
INIR Phase 3	United Arab Emirates

Table A20. Integrated Nuclear Infrastructure Review for Research Reactors (INIR-RR) missions in 2018

Type	Country
INIR-RR	Nigeria
INIR-RR	Viet Nam

Table A21. Integrated Safety Assessment of Research Reactors (INSARR) missions in 2018

Type	Country
INSARR	Democratic Republic of the Congo
INSARR	Ghana
INSARR follow-up	Jordan

Table A22. International Physical Protection Advisory Service (IPPAS) missions in 2018

Type	Country
IPPAS	Ecuador
IPPAS	Switzerland
IPPAS follow-up	France
IPPAS follow-up	Japan

Table A23. Integrated Regulatory Review Service (IRRS) missions in 2018

Type	Country
IRRS	Australia
IRRS	Austria
IRRS	Chile
IRRS	Georgia
IRRS	Luxembourg
IRRS	Republic of Moldova
IRRS	Spain
IRRS follow-up	Hungary
IRRS follow-up	Netherlands

Table A24. Independent Safety Culture Assessment (ISCA) missions in 2018

Type	Country
ISCA	Norway
ISCA	South Africa

Table A25. Knowledge Management Assist Visit (KMAV) missions in 2018

Type	Organization/nuclear power plant	Country
KMAV	National Nuclear Energy Agency	Indonesia
KMAV	Nuclear Energy Commission	Mongolia
KMAV	National University of Mongolia	Mongolia
KMAV	Emirates Nuclear Energy Corporation	United Arab Emirates

Table A26. Occupational Radiation Protection Appraisal Service (ORPAS) missions in 2018

Type	Country
ORPAS	Bosnia and Herzegovina
ORPAS	Dominican Republic
ORPAS	Indonesia
ORPAS	Panama
ORPAS follow-up	United Republic of Tanzania

Table A27. Operation and Maintenance Assessment for Research Reactors (OMARR) missions in 2018

Type	Country
OMARR	Bangladesh
OMARR	Uzbekistan

Table A28. Operational Safety Review Team (OSART) missions in 2018

Type	Country
OSART	Finland
OSART	Islamic Republic of Iran
OSART	Russian Federation
OSART	Spain
OSART	United Kingdom
OSART pre-operational	Finland
OSART follow-up	Canada
OSART follow-up	Slovenia

Table A29. Peer Review of Operational Safety Performance Experience (PROSPER) missions in 2018

Type	Country
PROSPER	Ukraine

Table A30. Safety Aspects of Long Term Operation (SALTO) missions in 2018

Type	Country
SALTO	Armenia
SALTO	Sweden
Pre-SALTO	Argentina
Pre-SALTO	Brazil
Pre-SALTO	Bulgaria
Pre-SALTO	Ukraine

Table A31. Site and External Events Design (SEED) missions in 2018

Type	Country
SEED	Islamic Republic of Iran
SEED	Kenya

Table A32. Technical Safety Reviews (TSRs) in 2018

Type	Country
Design Safety Review	Bangladesh
Periodic Safety Review	Czech Republic
Safety Requirements Review	Saudi Arabia