



	2001 budget	2001 adjusted	2001 tota	al expenditure	Unused (over-
Programme	GC(44)/6 (at AS 12.70)	budget (at AS 15.3642)	Amount	% of adjusted budget	expended) budget
	(1)	(2)	(3)	(3) / (2) (4)	(2) – (3) (5)
Nuclear Power	4 636 000	4 031 000	4 124 557	102.32%	(93 557)
Nuclear Fuel Cycle and Waste Management Technology Comparative Assessment	5 835 000	5 086 000	5 018 868	98.68%	67 132
for Sustainable Energy Development	2 727 000	2 366 000	2 336 980	98.77%	29 020
Subtotal	13 198 000	11 483 000	11 480 405	99.98%	2 595
Food and Agriculture	11 004 000	9 736 000	9 675 594	99.38%	60 406
Human Health Marine Environment and Water	6 218 000	5 516 000	5 510 295	99.90%	5 705
Resources Applications of Physical and	6 020 000	5 205 000	5 244 874	100.77%	(39 874)
Chemical Sciences	9 834 000	8 826 000	8 822 587	99.96%	3 413
Subtotal	33 076 000	29 283 000	29 253 350	99.90%	29 650
Nuclear Safety	6 224 000	5 339 000	5 428 683	101.68%	(89 683)
Radiation Safety	3 805 000	3 287 000	3 675 857	111.83%	(388 857)
Radioactive Waste Safety	2 267 000	1 951 000	1 705 990	87.44%	245 010
Co-ordination of Safety Activities	3 054 000	2 655 529 ^a	2 421 905	91.20%	233 624
Subtotal	15 350 000	13 232 529	13 232 435	100.00%	94
Safeguards	81 890 000	69 937 000	69 970 800	100.05%	(33 800)
Security of Material	1 093 000	938 000	869 058	92.65%	68 942
Subtotal	82 983 000	70 875 000	70 839 858	99.95%	35 142
Management of Technical Co-operation for Development	13 641 000	11 557 471 ^a	11 528 187	99.75%	29 284
Subtotal	13 641 000 13 641 000	11 557 471	11 528 187	99.75%	29 284
Policy-making, Management and					
Executive Management	3 064 000	2 612 000	2 705 839	103.59%	(93 839)
Services for Policy-making Organs	6 237 000	5 342 000	5 257 947	98.43%	84 053
Legal Activities, External Relations and Public Information	7 095 000	6 113 000	5 573 120	91.17%	539 880
Administration	12 234 000	10 414 000	9 796 459	91.17% 94.07%	617 541
General Services	23 080 000	19 281 000	19 084 596	98.98%	196 404
Information Management		10 101 000	20 00 0000	0.000/0	200 104
and Support Services	15 135 000	12 867 000	14 207 791	110.42%	(1 340 791)
Subtotal	66 845 000	56 629 000	56 625 752	99.99%	3 248
Subtotal	00 845 000				
TOTAL – Agency's Programmes	225 093 000	193 060 000	192 959 987	99.95%	100 013
				99.95% 92.10%	100 013 329 871

TABLE A1. ALLOCATION AND UTILIZATION OF REGULAR BUDGET RESOURCES IN 2001

^a Based on Board of Governor's Resolution GOV/1999/15, an amount of \$34 529 was transferred from the subprogramme "Planning, Co-ordination and Evaluation" to the subprogramme "Safety Conventions" (in the Co-ordination of Safety Activities programme) to cover the cost of emergency assistance provided to Greece, Panama and Poland.

Agency's Programmes	27 731 000	51 661 194	26 832 277	24 828 917
Subtotal	805 000	1 484 154	612 497	871 657
Support Services	0	15 552	15 052	500
Information Management and	0	5 1 61	0.001	550
Administration	005 000	1 403 982 9 767	8 837	930
Legal Activities, External Relations and Public Information	805 000	1 453 982	583 755	870 227
Services for Policy-making Organs	0	4 853	4 853	0
Policy-making, Management and Sup				
Subtotal	210 000	419 200	340 822	132 433
Subtotal	310 000	479 255	346 822	132 433
Management of Technical Co-operation for Development	310 000	479 255	346 822	132 433
Subtotal	18 571 000	34 688 442	18 433 640	16 254 802
UNSC Resolutions	10 650 000	2 519 033	2 503 745	15 288
Verification in Iraq pursuant to		0 = 1 =		
Security of Material	1 046 000	1 780 404	757 861	1 022 543
Safeguards	6 875 000	30 389 005	15 172 034	15 216 971
	2 554 000	7 147 007	2 969 496	4 177 511
Co-ordination of Safety Activities	126 000	296 890	142 178	154 712
Radioactive Waste Safety	250 000	406 053	292 248	113 805
Radiation Safety	100 000	735 483	299 508	435 975
Nuclear Safety	2 078 000	5 708 581	2 235 562	3 473 019
Subtotal	4 200 000	5 105 707	3 167 679	1 938 028
Applications of Physical and Chemical Sciences	13 000	43 304	20 412	22 892
and Water Resources	956 000	1 475 835	867 814	608 021
Marine Environment				
Human Health	0	257 096	64 839	192 257
Food and Agriculture	1 031 008 ^b	0	0	0
Food and Agriculture	2 199 992	3 329 472	2 214 614	1 114 858
Subtotal	1 291 000	2 756 629	1 302 143	1 454 486
Waste Management Technology Comparative Assessment for Sustainable Energy Development	605 000 0	1 412 638 134 551	609 508 103 460	803 130 31 091
Nuclear Power Nuclear Fuel Cycle and	686 000	1 209 440	589 175	620 265
	(1)	(2)	(3)	(4)
Programme	budget figures GC(44)/6	available in 2001 ^a	during 2001	as at 31 Dec 2001 (2)–(3)
	Extrabudgetary	Resources	Expenditure	Unused balance

TABLE A2. EXTRABUDGETARY FUNDS IN 2001 — RESOURCES AND EXPENDITURES

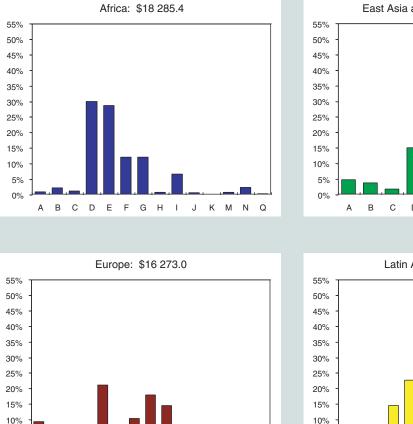
^a The column "Resources Available in 2001" includes cash contributions received as well as the unused balances as at 1 January 2001 and cash due from FAO, UNEP and UNOPS for approved activities.

^b The FAO budget includes \$1 031 008 estimated costs for FAO professional staff working in the Joint FAO/IAEA Division of Nuclear Techniques in Food and Agriculture. The salaries of these staff members are paid by FAO and, therefore, are not included in columns 2 and 3.

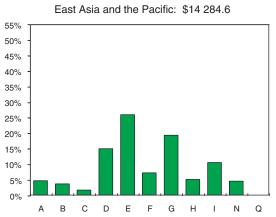
	Programme	Africa	East Asia and the Pacific	Europe	Latin America	West Asia	Global/inte regional	er- Total
Α	Nuclear Power	195.1	693.5	1538.0	655.2	611.0	164.2	3857.0
в	Nuclear Fuel Cycle and Waste							
	Management Technology	413.9	552.4	1032.4	496.3	242.3	516.3	3253.7
С	Comparative Assessment							
	for Sustainable Energy	047 5	075.0	470.0	07.4	20.0	0.0	000 7
_	Development	247.5	275.6	179.6	87.1	36.0	2.9	828.7
D	Food and Agriculture	5496.4	2177.0	692.1	1881.3	1164.8	745.9	12 157.6
Е	Human Health	5261.3	3716.0	3446.7	2939.6	1115.8	427.1	16 906.5
F	Marine Environment							
	and Water Resources	2229.2	1060.9	302.2	974.5	196.5	33.2	4796.4
G	Applications of Physical and							
	Chemical Sciences	2224.9	2786.0	1693.5	2197.1	1529.4	141.5	10 572.3
н	Nuclear Safety	156.2	765.2	2927.1	575.7	299.5	95.9	4819.6
Т	Radiation Safety	1236.3	1542.4	2366.6	1909.1	1246.0	59.3	8359.7
J	Radioactive Waste Safety	142.3	10.0	629.0	161.3	108.7	65.3	1116.6
κ	Co-ordination of							
	Safety Activities	22.6	1.7	16.4	164.8	179.4	0.0	384.9
Μ	Security of Material	144.9	0.0	873.7	51.0	0.0	0.0	1069.5
Ν	Management of							
	Technical Co-operation							
	for Development	435.3	674.8	472.4	711.2	107.6	2596.6	4997.9
Q	Legal Activities, External							
	Relations and Public Information	n 71.6	22.8	80.3	32.1	0.0	87.5	294.3
Т	Information Management							
	and Support Services	8.0	6.0	23.1	70.3	4.1	0.0	111.5
	TOTAL 1	8 285.4	14 284.6	16 273.0	12 906.4	6841.1	4935.7	73 526.2

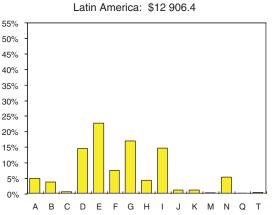
TABLE A3. TECHNICAL CO-OPERATION DISBURSEMENTS BY AGENCY PROGRAMME AND REGION IN 2001

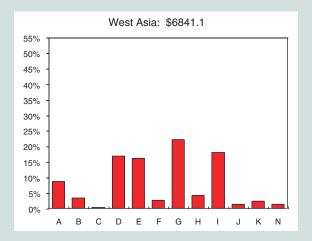
I. Summary of all regions (in thousands of dollars)



II. Distribution by region

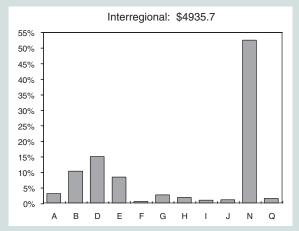






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IJKMNQT



Note: Letters denote Agency programmes; they are explained in part I on the previous page.

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TABLE A4. ESTIMATED COSTS OF ALTERNATIVE MITIGATION TECHNOLOGIES IN THE POWER GENERATION SECTOR COMPARED WITH BASELINE COAL FIRED STATIONS AND POTENTIAL REDUCTIONS IN CARBON EMISSIONS TO 2010 AND 2020 FOR ANNEX I COUNTRIES (source: Third Assessment Report of the IPCC, 2001)

Technology	pf+FGD, NO _x , etc.	IGCC and super- critical	CCGT	pf+FGD +CO ₂ capture	CCGT + CO ₂ capture	Nuclear	PV and thermal solar	Hydro	Wind turbines	BIGCC
Energy source	Coal	Coal	Gas	Coal	Gas	Uranium	Solar radiation	Water	Wind	Biofuel
Generating costs (cents/kW·h)	4.90	3.6–6.0	4.9–6.9	7.9	6.4–8.4	3.9–8.0	8.7–40.0	4.2–7.8	3.0–8	2.8–7.6
Emissions (g C/kW·h)	229	190–198	103–122	40	17	0	0	0	0	0
Cost of carbon reduction (\$/t C)	Baseline	-10–40	0–156	159	71–165	-38–135	175–1400	-31–127	-82–135	-92–117
Reduction potential to 2010, (Mt C/a)	Baseline	13	18	2–10	—	30	2	6	51	9
Reduction potential to 2020, (Mt C/a)	Baseline	55	103	5–50	_	191	20	37	128	77

Abbreviations: BIGCC: biomass integrated gasification combined cycle; CCGT: combined cycle gas turbine; FGD: flue gas desulphurization; IGCC: integrated gasification combined cycle; pf: pulverized fuel; PV: photovoltaic.

TABLE A5. ESTIMATED COSTS OF ALTERNATIVE MITIGATION TECHNOLOGIES IN THE POWER GENERATION SECTOR COMPARED WITH BASELINE COAL FIRED STATIONS AND POTENTIAL REDUCTIONS IN CARBON EMISSIONS TO 2010 AND 2020 FOR NON-ANNEX I COUNTRIES (source: Third Assessment Report of the IPCC, 2001)

Technology	pf+FGD, NO _x , etc.	IGCC and super- critical	CCGT	pf+FGD +CO ₂ capture	CCGT + CO ₂ capture	Nuclear	PV and thermal solar	Hydro	Wind turbines	BIGCC
Energy source	Coal	Coal	Gas	Coal	Gas	Uranium	Solar radiation	Water	Wind	Biofuel
Generating costs (cents/kW·h)	4.45	3.6–6.0	4.45–6.9	7.45	5.95–8.4	3.9–8.0	8.7–40.0	4.2–7.8	3.0–8	2.8–7.6
Emissions (g C/kW·h)	260	190–198	103–122	40	17	0	0	0	0	0
Cost of carbon reduction (\$/t C)	Baseline	-10–200	0–17	136	62–163	-20–77	164–1370	-10–129	-56–137	-63–121
Reduction potential to 2010 (Mt C/a)	Baseline	36	20	0	_	36	0.5	20	12	5
Reduction potential to 2020 (Mt C/a)	Baseline	58	137	5–50	_	220	8	55	45	13

TABLE A6. ESTIMATED COSTS OF ALTERNATIVE MITIGATION TECHNOLOGIES IN THE POWER GENERATION SECTOR COMPARED WITH GAS FIRED CCGT POWER STATIONS AND POTENTIAL REDUCTIONS IN CARBON EMISSIONS TO 2010 AND 2020 FOR ANNEX I COUNTRIES (source: Third Assessment Report of the IPCC, 2001)

Technology	CCGT	pf+FGD + CO ₂ capture	CCGT + CO ₂ capture	Nuclear	PV and thermal solar	Hydro	Wind turbines	BIGCC
Energy source	Gas	Coal	Gas	Uranium	Solar radiation	Water	Wind	Biofuel
Generating costs (cents/kW·h)	3.45	7.6–10.6	4.95	3.9–8.0	8.7–40.0	4.2–7.8	3.0–8	2.8–7.6
Emissions (g C/kW·h) 108	40	17	0	0	0	0	0
Cost of carbon reduction (\$/t C)	Baseline	610–1050	165	46–421	500–3800	66–400	-43–92	-60–224
Reduction potential to 2010 (Mt C/a)	Baseline	—	2–10	62	0.8	3	23	4
Reduction potential to 2020 (Mt C/a)	Baseline	—	5–50	181	9	18	61	36

TABLE A7. ESTIMATED COSTS OF ALTERNATIVE MITIGATION TECHNOLOGIES IN THE POWER GENERATION SECTOR COMPARED WITH GAS FIRED CCGT POWER STATIONS AND POTENTIAL REDUCTIONS IN CARBON EMISSIONS TO 2010 AND 2020 FOR NON-ANNEX I COUNTRIES (source: Third Assessment Report of the IPCC, 2001)

Technology	CCGT	pf+FGD + CO ₂ capture	CCGT + CO ₂ capture	Nuclear	PV and thermal solar	Hydro	Wind turbines	BIGCC
Energy source	Gas	Coal	Gas	Uranium	Solar radiation	Water	Wind	Biofuel
Generating costs (cents/kW·h)	3.45	6.9–8.7	4.95	3.9–8.0	8.7–40.0	4.2–7.8	3.0–8	2.8–7.6
Emissions (g C/kW·h)) 108	40	17	0	0	0	0	0
Cost of carbon reduction (\$/t C)	Baseline	507–772	165	46–421	500–3800	66–400	-43–92	-60–224
Reduction potential to 2010 (Mt C/a)	Baseline	—	0	10	0.2	9	5	1
Reduction potential to 2020 (Mt C/a)	Baseline	_	5–50	70	4	26	21	6

Nuclear power plant	Country
Ignalina	Lithuania
KANUPP	Pakistan
Cernavoda	Romania
Novovoronezh, unit 5	Russian Federation
Mochovce	Slovakia
Zaporozhe	Ukraine
	Ignalina KANUPP Cernavoda Novovoronezh, unit 5 Mochovce

TABLE A8. INTERNATIONAL PROBABILISTIC SAFETY ASSESSMENT REVIEW TEAM (IPSART) MISSIONS IN 2001

TABLE A9. REVIEW OF ACCIDENT MANAGEMENT PROGRAMMES (RAMP) IN 2001

Туре	Location	Country
Pilot RAMP	Krško	Slovenia

TABLE A10. OPERATIONAL SAFETY REVIEW TEAM (OSART) MISSIONS IN 2001

Туре	Nuclear power plant type	Country
Preparatory meeting	Angra 2 PWR	Brazil
OSART follow-up	Kozloduy WWER	Bulgaria
Preparatory meeting	Pickering PHWR	Canada
Pre-OSART	Lingao PWR	China
Full OSART	Dukovany WWER	Czech Republic
Full OSART	Temelin WWER	Czech Republic
Full OSART	Paks WWER	Hungary

TABLE A11. PEER REVIEW OF OPERATIONAL SAFETY PERFORMANCE EXPERIENCE (PROSPER) MISSIONS IN 2001

Туре	Plant/location	Country
Introductory mission	Metsamor	Armenia
Assistance mission	Karachi	Pakistan
Preparatory meeting	Cernavoda	Romania
Workshop	Bilibino	Russian Federation
Seminar	VNIIAES	Russian Federation

Туре	Location/nuclear power plant	Country					
SCEP workshop	INB, Rio de Janeiro and Resende	Brazil Brazil					
Workshop for managers on the management of safety and safety culture	Eletronuclear, Rio de Janeiro and Angra dos Reis	Brazii					
Self-assessment training workshop	INB, Rio de Janeiro and Angra dos Reis	Brazil					
Regional workshop on safety culture for non-power nuclear installations	Santiago de Chile	Chile					
Regional workshop on management of safety and safety culture	Daya Bay	China					
Safety culture seminar	INSTN, Saclay	France					
Self-assessment training workshop	Laguna Verde	Mexico					
Workshop	Volgodonsk	Russian Federation					
Safety culture seminar	Slovak Technical University, Bratislava	Slovakia					
Regional workshop on management of safety and safety culture	Piestany	Slovakia					
Presentation on management of safety and safety culture	SGS, Stockholm	Sweden					
Seminar on management of safety and safety culture	Stockholm	Sweden					

TABLE A12. SAFETY CULTURE ENHANCEMENT PROGRAMME (SCEP) ACTIVITIES IN 2001

TABLE A13. ENGINEERING SAFETY REVIEW SERVICE (ESRS) MISSIONS IN 2001

Service	Site/plant	Country
Ageing safety review	Medzamor	Armenia
Seismic safety review follow-up	Medzamor	Armenia
Site safety review (preliminary)	Rooppur	Bangladesh
Periodic safety review	Qinshan	China
Design safety review	Tianwan	China
Review of Agency safety issues	Temelin	Czech Rep.
PSAR review assistance	Bushehr	Islamic. Rep. of Iran
Design safety review	Korean Next Generation Reactor	Republic of Korea
Documentation review on		
severe accident safety features	Tianwan	China
PSAR review, chapters 9 and 10	Bushehr	Islamic Rep. of Iran
Periodic safety review	Krško	Slovenia
Seismic safety review	Istanbul	Turkey

Туре	Research reactor	Country
Pre-INSARR	3MW TRIGA	Bangladesh
Pre-INSARR	La Reina RR	Chile
Pre-INSARR	SPR, NHR, HTR-10	China
Pre-INSARR	GRR-1	Greece
INSARR	GRR-1	Greece
Pre-INSARR	TRR-1	Islamic Rep. of Iran
Pre-INSARR	14 MW TRIGA II	Romania
Pre-INSARR	MNSR RR	Syrian Arab Republic

TABLE A14. INTEGRATED SAFETY OF RESEARCH REACTORS (INSARR) MISSIONS IN 2001

TABLE A15. SAFETY REVIEW MISSIONS IN 2001 TO RESEARCH REACTORS UNDER PROJECT AND SUPPLY AGREEMENTS

Туре	Country
Australian Replacement Research Reactor—Review of the	
Preliminary Safety Analysis Report	Australia
Activities to prepare facilities for INSARR	China
Assistance for the safety review of a newly designed research reactor: MIPR	China
ETRR-2 fact finding mission	Egypt
Follow-up of a safety project for the research reactors	Libyan Arab Jamahiriya
Assistance on the commissioning programme and completion of SAR for	
the reactor under construction	Morocco
Fact finding mission	Uzbekistan

TABLE A16. INTERNATIONAL REGULATORY REVIEW TEAM (IRRT) MISSIONS IN 2001

Туре	Country
Full scope	Czech Republic
Full scope	Lithuania
Full scope	Mexico
Pre-IRRT	Thailand
Full scope follow-up	Ukraine

TABLE A17.	NUMBER	OF STATES	HAVING	SIGNIFICANT	NUCLEAR	ACTIVITIES A	T THE END	OF 1999,
	2000 AND	2001						

	Ν	umber of Sta	tes
	1999	2000	2001
States with safeguards applied under NPT or NPT/Tlatelolco agreements	60	60	61
States with safeguards applied under Tlatelolco agreements	1	1	0
States with safeguards applied pursuant to other comprehensive			
safeguards agreements	0	0	0
States with safeguards applied under INFCIRC/66/Rev.2-type agreements ^a	4	4	4
Nuclear weapon States with safeguards applied under voluntary			
offer agreements	5	5	5
States without any safeguards agreement in force	1	1	1
Total number of States with significant nuclear activities ^b	71	71	71

^a Some States with INFCIRC/66/Rev.2-type agreements under which the application of safeguards has not yet been suspended, although NPT or other comprehensive safeguards agreements have entered into force, are listed under NPT agreements only. Nuclear weapon States with INFCIRC/66/Rev.2-type agreements in force are not included. Safeguards are also applied to nuclear installations in Taiwan, China.

 $^{\rm b}\,$ According to information available to the Agency for the year in question.

TABLE A18. APPROXIMATE QUANTITIES OF MATERIAL SUBJECT TO AGENCY SAFEGUARDS AT THE END OF 2001

	Quantity of material (t)					
Type of material	Comprehensive safeguards	INFCIRC/66b	Nuclear weapon	Quantity		
	agreements ^a		States	in SQs		
Nuclear material						
Plutonium ^c contained in irradiated fuel						
(including recycled plutonium in						
fuel elements in reactor cores)	577.5	30	82.9	86 303		
Separated plutonium outside reactor cores	13.6	0.1	63.8	9673		
HEU (equal to or greater than 20% ²³⁵ U)	10.8	0.1	10	580		
LEU (less than 20% ²³⁵ U)	42 993	2922	4164	13 288		
Source material ^d (natural or depleted						
uranium and thorium)	81 252	1728	11 960	7294		
Non-nuclear material ^e						
Heavy water	0	479	0	24		
Total significant quantities	92 623	4518	20 021	117 162		

^a Covering safeguards agreements pursuant to NPT and/or Treaty of Tlatelolco and other comprehensive safeguards agreements.

^b Excluding installations in nuclear weapon States; including installations in Taiwan, China.

^c The quantity includes an estimated 88.6 t (11 081 SQ) of plutonium in irradiated fuel, which is not yet reported to the Agency under the reporting procedures agreed to (the non-reported plutonium is contained in irradiated fuel assemblies to which item accountancy and C/S measures are applied).

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

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

	Number	of facilities (numb	per of install	ations)
	Comprehensive		Nuclear	
Facility type	safeguards	INFCIRC/66 ^b	weapon	Total
	agreements ^a		States	
Power reactors	186 (223)	11 (14)	1 (1)	198 (238)
Research reactors and critical assemblies	141 (152)	7 (7)	1(1)	149 (160)
Conversion plants	13 (13)	1(1)	— (—)	14 (14)
Fuel fabrication plants	38 (39)	3 (3)	— (—)	41 (41)
Reprocessing plants	5 (5)	1(1)	— (—)	6 (6)
Enrichment plants	8 (8)	— (—)	2 (4)	10 (12)
Separate storage facilities	67 (68)	3 (3)	7 (8)	77 (79)
Other facilities	82 (92)	1 (1)	1 (1)	84 (94)
Subtotals	540 (600)	27 (30)	12 (15)	579 (645)
Other locations	325 (423)	3 (30)	— (—)	328 (453)
Non-nuclear installations	— (—)	1(1)	— (—)	1 (1)
Totals	865 (1023)	31 (61)	12 (15)	908 (1099)

TABLE A19. NUMBER OF FACILITIES UNDER SAFEGUARDS OR CONTAINING SAFEGUARDED MATERIAL ON 31 DECEMBER 2001

^a Covering safeguards agreements pursuant to NPT and/or Treaty of Tlatelolco and other comprehensive safeguards agreements.

^b Excluding installations in nuclear weapon States; including installations in Taiwan, China.

Table A20. ADDITIONAL SAFEGUARDS SUPPORT PROVIDED BY STATES AND ORGANIZATIONS

States and organizations representing groups of States having formal support programmes	States having R&D contracts and test programmes
Argentina Australia Belgium Canada European Union Finland France Germany Hungary Japan Republic of Korea Netherlands Russian Federation Sweden United Kingdom United States of America	Austria Israel Latvia Pakistan Russian Federation

	oopd		INICOLDO	A 1 1111 1
State ^c	SQP ^d	Status of safeguards agreement(s)	INFCIRC	Additional Protocol status
		agreement(s)		FIDIOCOLSIAIUS
Afghanistan	Х	In force: 20 February 1978	257	
Albania		In force: 25 March 1988 ¹	359	
Algeria		In force: 7 January 1997	531	
Andorra		Signed: 9 January 2001		Signed: 9 January 2001
Angola				
Antigua and Barbuda	Х	In force: 9 September 1996 ²	528	
Argentina		In force: 4 March 1994 ³	435	
Armenia		In force: 5 May 1994	455	Signed: 29 September 1997
Australia		In force: 10 July 1974	217	In force: 12 December 1997
Austria		Accession: 31 July 1996 4	193	Signed: 22 September 1998 ⁵
Azerbaijan	Х	In force: 29 April 1999	580	In force: 29 November 2000
Bahamas	Х	In force: 12 September 1997 ²	544	
Bahrain		·		
Bangladesh		In force: 11 June 1982	301	In force: 30 March 2001
Barbados	Х	In force: 14 August 1996 ²	527	
Belarus		In force: 2 August 1995	495	
Belgium		In force: 21 February 1977	193	Signed: 22 September 1998
Belize	Х	In force: 21 January 1997 ²	532	<u> </u>
Benin		2		
Bhutan	Х	In force: 24 October 1989	371	
Bolivia	Х	In force: 6 February 1995 ²	465	
Bosnia and Herzegovina		In force: 28 December 1973 ⁶	204	
Botswana				
Brazil		In force: 4 March 1994 ⁷	435	
Brunei Darussalam	Х	In force: 4 November 1987	365	
Bulgaria		In force: 29 February 1972	178	In force: 10 October 2000
Burkina Faso		,		
Burundi				
Cambodia	Х	In force: 17 December 1999	586	
Cameroon		Signed: 21 May 1992		
Canada		In force: 21 February 1972	164	In force: 8 September 2000

TABLE A21. STATUS WITH REGARD TO THE CONCLUSION OF SAFEGUARDS AGREEMENTS AND ADDITIONAL PROTOCOLS^{a, b} (as of 31 December 2001)

^a This annex does not aim at listing all safeguards agreements that the Agency has concluded. Not included are agreements whose application has been suspended in the light of the application of safeguards pursuant to a comprehensive safeguards agreement.

^b The Agency also applies safeguards in Taiwan, China under two agreements, INFCIRC/133 and INFCIRC/158, which came into force on 13 October 1969 and 6 December 1971, respectively.

^c States in bold type are those which are not party to the NPT and whose safeguards agreements are of INFCIRC/66-type. States in italics are those which are party to the NPT but have not concluded a safeguards agreement pursuant to that Treaty; the safeguards agreements referred to are comprehensive safeguards agreements concluded pursuant to the NPT, unless otherwise indicated. Safeguards agreements marked with an asterisk denote voluntary offer safeguards agreements.

^d Operational small quantity protocol (SQP): States with a legal obligation to conclude a comprehensive safeguards agreement which have nuclear material in quantities not exceeding the limits of paragraph 37 of INFCIRC/153 and no nuclear material in any facility, have the option to conclude an SQP, thus holding in abeyance the implementation of most of the detailed provisions set out in Part II of a comprehensive safeguards agreement as long as these conditions continue to apply. Six States meet the conditions for an SQP but do not have one i.e. Albania, Bosnia and Herzegovina, Côte d'Ivoire, Liechtenstein, Sri Lanka and Tunisia.

TABLE A21. (cont.)

State ^c	SQP ^d	Status of safeguards	INFCIRC	Additional
		agreement(s)		Protocol status
Cape Verde				
Central African Republic				
Chad				
Chile		In force: 5 April 1995 ⁸	476	
China		In force: 18 September 1989	369 ^(*)	Signed: 31 December 1998
Colombia		In force: 22 December 1982 8	306	
Comoros				
Congo	V	In former 20 Neuropher 4070^{2}	070	Circular 40 December 2004
Costa Rica Côte d'Ivoire	Х	In force: 22 November 1979 ²	278 309	Signed: 12 December 2001
Croatia	Х	In force: 8 September 1983 In force: 19 January 1995	463	In force: 6 July 2000
Cuba	^	In force: 5 May 1980	403 281	Signed: 15 October 1999
Guba		In force: 7 October 1983	311	Signed. 13 October 1999
Cyprus	Х	In force: 26 January 1973	189	Signed: 29 July 1999
Czech Republic	~	In force: 11 September 1997 ⁹	541	Signed: 28 September 1999
			041	
Democratic People's				
Republic of Korea		In force: 10 April 1992	403	
Democratic Republic of				
the Congo		In force: 9 November 1972	183	
Denmark		In force: 21 February 1977 10	193	Signed: 22 September 1998
Djibouti				
Dominica	Х	In force: 3 May 1996 ¹¹	513	
Dominican Republic	Х	In force: 11 October 1973 ²	201	
Ecuador	Х	In force: 10 March 1975 ²	231	In force: 24 October 2001
Egypt		In force: 30 June 1982	302	
El Salvador	Х	In force: 22 April 1975 ²	232	
Equatorial Guinea		Approved: 13 June 1986		
<i>Eritrea</i> Estonia		In force: 24 November 1997	547	Signed: 13 April 2000
Ethiopia	Х	In force: 2 December 1997	261	Signed. 15 April 2000
Fiji	X	In force: 22 March 1973	192	
Finland	~	Accession: 1 October 1995 ¹²	193	Signed: 22 September 1998 ⁵
France		In force: 12 September 1981	290 (*)	Signed: 22 September 1998
		Signed: 26 September 2000 ¹³	200	0.0.001 TT 000400000 T000
Gabon		Signed: 3 December 1979		
Gambia	Х	In force: 8 August 1978	277	
Georgia		Signed: 29 September 1997		Signed: 29 September 1997
Germany		In force: 21 February 1977 14	193	Signed: 22 September 1998 ⁵
Ghana		In force: 17 February 1975	226	Signed: 12 June 1998 ¹⁵
Greece		Accession: 17 December 1981 16	193	Signed: 22 September 1998 ⁵
Grenada	Х	In force: 23 July 1996 ²	525	
Guatemala	Х	In force: 1 February 1982 ²	299	Signed: 14 December 2001
Guinea				
Guinea-Bissau		2		
Guyana	Х	In force: 23 May 1997 ²	543	
Haiti		Signed: 6 January 1975 ²		
Holy See	Х	In force: 1 August 1972	187	In force: 24 September 1998
Honduras	Х	In force: 18 April 1975 ²	235	
Hungary		In force: 30 March 1972	174	In force: 4 April 2000

TABLE A21. (cont.)

	oopd		INICOLDO	A 1 1111 1
State ^c	SQP ^d	Status of safeguards agreement(s)	INFCIRC	Additional Protocol status
				1100001312103
Iceland	Х	In force: 16 October 1974	215	
India		In force: 30 September 1971	211	
		In force: 17 November 1977	260	
		In force: 27 September 1988	360	
		In force: 11 October 1989	374	
		In force: 1 March 1994	433	
Indonesia		In force: 14 July 1980	283	In force: 29 September 1999
Iran, Islamic Republic of		In force: 15 May 1974	214	
Iraq		In force: 29 February 1972	172	
Ireland		In force: 21 February 1977	193	Signed: 22 September 1998
Israel		In force: 4 April 1975	249/Add.1	
Italy		In force: 21 February 1977	193	Signed: 22 September 1998
Jamaica		In force: 6 November 1978 ²	265	
Japan		In force: 2 December 1977	255	In force: 16 December 1999
Jordan	Х	In force: 21 February 1978	258	In force: 28 July 1998
		,		
Kazakhstan		In force: 11 August 1995	504	
Kenya				
Kiribati	Х	In force: 19 December 1990	390	
Korea, Republic of		In force: 14 November 1975	236	Signed: 21 June 1999
Kuwait		Signed: 10 May 1999		
Kyrgyzstan		Signed: 18 March 1998		
Lao People's				
Democratic Republic	Х	In force: 5 April 2001	599	
Latvia	X	In force: 21 December 1993	434	In force: 12 July 2001
Lebanon	Х	In force: 5 March 1973	191	
Lesotho	X	In force: 12 June 1973	199	
Liberia			200	
Libyan Arab Jamahiriya		In force: 8 July 1980	282	
Liechtenstein		In force: 4 October 1979	275	
Lithuania		In force: 15 October 1992	413	In force: 5 July 2000
Luxembourg		In force: 21 February 1977	193	Signed: 22 September 1998
U		,		
Madagascar	Х	In force: 14 June 1973	200	
Malawi	Х	In force: 3 August 1992	409	
Malaysia		In force: 29 February 1972	182	
Maldives	Х	In force: 2 October 1977	253	
Mali				
Malta	Х	In force: 13 November 1990	387	
Marshall Islands				
Mauritania				
Mauritius	Х	In force: 31 January 1973	190	
Mexico		In force: 14 September 1973 17	197	
Micronesia, Federated Stat	es of			
Monaco	Х	In force: 13 June 1996	524	In force: 30 September 1999
Mongolia	Х	In force: 5 September 1972	188	Signed: 5 December 2001
Morocco	Х	In force: 18 February 1975	228	
Mozambique				
Myanmar	Х	In force: 20 April 1995	477	
Namibia	Х	In force: 15 April 1998	551	Signed: 22 March 2000
	Λ			

TABLE A21. (cont.)

State	sond	Status of safaguarda	INFOIDO	Additional
State ^c	SQP ^d	Status of safeguards agreement(s)	INFCIRC	Additional Protocol status
Nauru	Х	In force: 13 April 1984	317	
Nepal	Х	In force: 22 June 1972	186	
Netherlands		In force: 5 June 1975 13	229	
		In force: 21 February 1977	193	Signed: 22 September 1998 ⁵
New Zealand	Х	In force: 29 February 1972	185	In force: 24 September 1998
Nicaragua	Х	In force: 29 December 1976 ²	246	
Niger		Approved: 20 March 2001		
Nigeria	Х	In force: 29 February 1988	358	Signed: 20 September 2001
Norway		In force: 1 March 1972	177	In force: 16 May 2000
Oman		Signed:28 June 2001		
Pakistan		In force: 5 March 1962	34	
		In force: 17 June 1968	116	
		In force: 17 October 1969	135	
		In force: 18 March 1976	239	
		In force: 2 March 1977	248	
		In force: 10 September 1991	393	
		In force: 24 February 1993	418	
Palau, Republic of				
Panama	Х	In force: 23 March 1984 ¹⁸	316	In force: 11 December 2001
Papua New Guinea	Х	In force: 13 October 1983	312	
Paraguay	Х	In force: 20 March 1979 ²	279	
Peru		In force: 1 August 1979 ²	273	In force: 23 July 2001
Philippines		In force: 16 October 1974	216	Signed: 30 September 1997
Poland		In force: 11 October 1972	179	In force: 5 May 2000
Portugal		Accession: 1 July 1986 19	193	Signed: 22 September 1998 ⁵
Qatar				
Moldova, Republic of		Signed: 14 June 1996		
Romania		In force: 27 October 1972	180	In force: 7 July 2000
Russian Federation		In force: 10 June 1985	327*	Signed: 22 March 2000
Rwanda		in loice. 10 Julie 1985	521	Signed. 22 March 2000
St. Kitts and Nevis	х	In force: 7 May 1996 ¹¹	514	
St. Lucia	X	In force: 2 February 1990 ¹¹	379	
St. Vincent	Λ	in force. 2 rebruary 1990	519	
and the Grenadines	Х	In force: 8 January 1992 11	400	
		In force: 22 January 1992		
Samoa San Marina	X	•	268 575	
San Marino São Tome and Principe	Х	In force: 21 September 1998	575	
Saudi Arabia	V	In former 14 January 1000	070	
Senegal	Х	In force: 14 January 1980	276	
Seychelles		Cignodi 10 November 1077		
Sierra Leone	V	Signed: 10 November 1977	050	
Singapore	Х	In force: 18 October 1977	259	Cirred 07 Centeral 1000
Slovakia		In force: 3 March 1972 ²⁰	173	Signed: 27 September 1999
Slovenia		In force: 1 August 1997	538	In force: 22 August 2000
Solomon Islands	Х	In force: 17 June 1993	420	
Somalia			004	
South Africa		In force: 16 September 1991	394	
Spain		Accession: 5 April 1989	193	Signed: 22 September 1998 ⁵

TABLE A21. (cont.)

State ^c	SQP ^d	Status of safeguards agreement(s)	INFCIRC	Additional Protocol status
Sri Lanka		In force: 6 August 1984	320	
Sudan	Х	In force: 7 January 1977	245	
Suriname	Х	In force: 2 February 1979 ²	269	
Swaziland	Х	In force: 28 July 1975	227	
Sweden		Accession: 1 June 1995 21	193	Signed: 22 September 1998 ⁵
Switzerland		In force: 6 September 1978	264	Signed: 16 June 2000
Syrian Arab Republic		In force: 18 May 1992	407	
Tajikistan				
Thailand The Former Yugoslav		In force: 16 May 1974	241	
Rep. of Macedonia		Signed: 10 October 2000		
Togo		Signed: 29 November 1990		
Tonga	Х	In force: 18 November 1993	426	
Trinidad and Tobago	Х	In force: 4 November 1992 ²	414	
Tunisia		In force: 13 March 1990	381	
Turkey		In force: 1 September 1981	295	In force: 17 July 2001
Turkmenistan				
Tuvalu	Х	In force: 15 March 1991	391	
Uganda				
Ukraine United Arab Emirates		In force: 22 January 1998	550	Signed: 15 August 2000
United Kingdom		In force: 14 December 1972	175 ²²	
-		In force: 14 August 1978	263 ^(*)	Signed: 22 September 1998 ⁵
		Approved: September 1992 ¹³		-
United Republic of Tanzania		Signed: 26 August 1992		
United States of America		In force: 9 December 1980	288 ^(*)	Signed: 12 June 1998
		In force: 6 April 1989 13	366	
Uruguay		In force: 17 September 1976 ²	157	Signed: 29 September 1997
Uzbekistan		In force: 8 October 1994	508	In force: 21 December 1998
Vanuatu				
Venezuela		In force: 11 March 1982 ²	300	
Viet Nam		In force: 23 February 1990	376	
Yemen, Republic of		Signed: 21 September 2000		
Yugoslavia, Federal Republic of		In force: 28 December 1973 23	204	
Zambia	Х	In force: 22 September 1994	456	
Zimbabwe	Х	In force: 26 June 1995	483	

¹ Sui generis comprehensive safeguards agreement.

 $^2\,$ Safeguards agreement refers 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 satisfied 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 in Austria under the NPT 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 (INFCIRC/193) between the non-nuclear-weapon States of Euratom, Euratom and the Agency, to which Austria had acceded, entered into force for Austria.
- ⁵ The Agency has received notification from the State that it has fulfilled its own internal requirements for entry into force of the additional protocol concluded with Euratom and the Agency. The additional protocol will enter into force on the date when the Agency receives written notification from all the States and Euratom that their respective requirements for entry into force have been met.
- ⁶ 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 in Bosnia and Herzegovina to the extent relevant to the territory of Bosnia and Herzegovina.
- ⁷ 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 satisfied the requirements 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 satisfied the requirements of Article III of the NPT.
- 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) confirming that the safeguards agreement satisfied the requirement of Article III of the NPT.
- ⁹ The NPT safeguards agreement concluded with the Czechoslovak Socialist Republic (INFCIRC/173), which entered into force on 3 March 1972, continued to be applied in the Czech Republic to the extent relevant to the territory of the Czech Republic until 11 September 1997, on which date the NPT safeguards agreement concluded with the Czech Republic entered into force.
- ¹⁰ The NPT safeguards agreement with Denmark (INFCIRC/176), in force since 1 March 1972, has been replaced by the agreement of 5 April 1973 between the non-nuclear-weapon States o f Euratom, Euratom and the Agency (INFCIRC/193) but still applies to the Faroe Islands. Upon Greenland's secession from Euratom as of 31 January 1985, the agreement between the Agency and Denmark (INFCIRC/176) re-entered into force for Greenland.
- ¹¹ An exchange of letters has entered into force between this state and the Agency confirming that the NPT safeguards agreement satisfies the obligations of the state under Article 13 of the Treaty of Tlatelolco.
- ¹² The application of safeguards in Finland under the NPT 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 (INFCIRC/193) between the non-nuclear-weapon States of Euratom, Euratom and the Agency, to which Finland had acceded, entered into force for Finland.
- ¹³ The safeguards agreement referred to is pursuant to Additional Protocol I to the Treaty of Tlatelolco.
- ¹⁴ 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.
- ¹⁵ Pending entry into force, the additional protocol is applied provisionally in this State.
- ¹⁶ The application of safeguards in Greece under the NPT safeguards agreement INFCIRC/166, provisionally in force since 1 March 1972, was suspended on 17 December 1981, on which date Greece acceded to the agreement of 5 April 1973 (INFCIRC/193) between the non-nuclear-weapon States of Euratom, Euratom and the Agency.
- ¹⁷ The safeguards agreement referred to 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.
- ¹⁸ Date refers to a safeguards agreement concluded pursuant to Article 13 of the Treaty of Tlatelolco. A safeguards agreement pursuant to the NPT and the Tlatelolco Treaty was signed on 22 December 1988 but has not yet entered into force.
- ¹⁹ The application of safeguards in Portugal under the NPT safeguards agreement INFCIRC/272, in force since 14 June 1979, was suspended on 1 July 1986, on which date Portugal acceded to the agreement of 5 April 1973 (INFCIRC/193) between the non-nuclear-weapon States of Euratom, Euratom and the Agency.

- ²⁰ The NPT safeguards agreement concluded with the Czechoslovak Socialist Republic (INFCIRC/173), which entered into force on 3 March 1972, continues be applied in Slovakia to the extent relevant to the territory of Slovakia. A new NPT safeguards agreement concluded with Slovakia was approved by the Board of Governors on 14 September 1998.
- ²¹ The application of safeguards in Sweden under the NPT 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 (INFCIRC/193) between the non-nuclear-weapon States of Euratom, Euratom and the Agency, to which Sweden had acceded, entered into force for Sweden.
- ²² Date refers to the INFCIRC/66-type safeguards agreement, concluded between the United Kingdom and the Agency, which remains in force.
- ²³ 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 in the Federal Republic of Yugoslavia to the extent relevant to the territory of the Federal Republic of Yugoslavia.

TABLE A22. PARTICIPATION BY STATES IN MULTILATERAL TREATIES FOR WHICH THE DIRECTOR GENERAL IS 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 2001)

P&I	Agreement on the Privileges and Immunities of the IAEA.
VC	Vienna Convention on Civil Liability for Nuclear Damage.
VC/OP CPPNM	Optional Protocol Concerning the Compulsory Settlement of Disputes.
	Convention on the Physical Protection of Nuclear Material.
NOT	Convention on Early Notification of a Nuclear Accident.
ASSIST	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.
PVC	Protocol to Amend the Vienna Convention on Civil Liability for Nuclear Damage (not yet entered into force).
SUPP	Convention on Supplementary Compensation for Nuclear Damage (not yet entered into force).
RSA	Revised Supplementary Agreements Concerning the Provision of Technical Assistance by the IAEA (RSA).
VI	Acceptance of Amendment to Article VI of the IAEA Statute.
XIV.A	Acceptance of Amendment to Article XIV.A of the IAEA Statute.

		P&I	VC	VC/OP	CPPNM	NOT	ASSIST	JP	NS	RADW	PVC	SUPP	RSA	VI	XIV.A
*	Afghanistan					Sr	Sr						S		
*	Albania												S		
*	Algeria					Sr	Sr		S				S	Х	Х
	Andorra														
*	Angola														
	Antigua and Barbuda				Р										
*	Argentina	Р	Ρ		Р	Pr	Pr	S	Ρ	Р	CS	CS	S		
*	Armenia		Ρ		Р	Р	Р		Р						
*	Australia	Р			Р	Pr	Pr		Ρ	S		S			
*	Austria				Pr	Ρ	Pr		Р	Р					
*	Azerbaijan														
	Bahamas														
	Bahrain														
*	Bangladesh					Ρ	Р		Р				S		
	Barbados														
*	Belarus	Pr	Ρ		Pr	Pr	Pr		Ρ	S	S		S	Х	Х
*	Belgium	Pr			Pr	Р	Р	S	Ρ	S					
	Belize														
*	Benin														
	Bhutan														
	Bolivia	Р	Ρ										S		
*	Bosnia and Herzegovina		Ρ		Р	Р	Р								
	Botswana				Р										
*	Brazil	Р	Ρ		Р	Ρ	Р		Ρ	S			S		
	Brunei														
*	Bulgaria	Pw	Ρ		Pw	Pw	Pw	Ρ	Ρ	Р			S		
*	Burkina Faso												S		
	Burundi														
*	Cambodia														
*	Cameroon	Р	Р			S	S	Р					S		

TABLE A22. (cont.)

		P&I	VC	VC/OP	CPPNM	NOT	ASSIST	JP	NS	RADW	PVC	SUPP	RSA	VI	XIV.A
*	Canada	Pr		,	Р	Pr	Sr		P	Р				Х	Х
	Cape Verde	FI			F	FI	51		Г	Г				Λ	Λ
*	Central African Republic														
	Chad														
*	Chile	Pr	Pr		Р	S	S	Р	Р				S		
*	China	Pr			Pr	Pr	Pr		P				S		
*	Colombia	Р	S	S									S		
	Comoros		0	0									0		
	Congo														
*	Costa Rica					Р	Р						S		
*	Croatia	Р	Р		Р	P	P	Р	Р	Р			S	Х	Х
*	Côte d'Ivoire					S	S						S	~	~
*	Cuba	Pr	Р		Pr	Pr	Pr		S				S		
*	Cyprus	P			Pr	P	P		P				S		
*	Czech Rep.	Pw	Р		P	P	P	Р	P	Р	S	S	S		
	Dem. People's Rep. of Korea					Sr	Sr		·			-			
*	Dem Rep. of the Congo					S	S						S		
*	Denmark	Pr			Р	P	S	Р	Pr	Pr					
	Djibouti														
	Dominica														
*	Dominican Republic				S								S		
*	Ecuador	Р			Р								S		
*	Egypt	Р	Р			Pr	Pr	Ρ	S				S		
*	El Salvador												S		
	Equatorial Guinea														
	Eritrea														
*	Estonia	Р	Ρ		Р	Р	Р	Р		S			S		
*	Ethiopia												S		
	Fiji														
*	Finland	Р			Pr	Р	Pr	Ρ	Ρ	Р					Х
*	France				Pr	Pr	Pr	S	Ρ	Р				Х	Х
*	Gabon														
	Gambia														
*	Georgia												S		
*	Germany	Pr			Pr	Pr	Pr	Ρ	Ρ	Р				Х	Х
*	Ghana	Р							S				S		
*	Greece	Ρ			Pr	Pr	Pr	Ρ	Ρ	Р			S	Х	Х
	Grenada														
*	Guatemala				Pr	Р	Р						S		
	Guinea														
	Guinea-Bissau														
	Guyana														
	Haiti				S								S		
*	Holy See	Ρ				S	S							Х	Х
	Honduras														
	Hungary	Pr	Ρ		Pw	Pw	Pw	Ρ	Ρ	Р	S		S		
	Iceland					Р	S		S				S		
*	India	Р				Pr	Pr		Sr						
*	Indonesia	Pr			Pr	Pr	Pr		S	S	S	S	S		
*	Iran, Islamic Rep. of	Р				Pr	Pr						S		

TABLE A22. (cont.)

	P&I	VC	VC/OP CPPNM	NOT	ASSIST	JP	NS	RADW	PVC	SUPP	RSA	VI	XIV.A
* Iraq			,	Pr	Pr						S		
* Ireland	Р		Pr	P	Pr		Р	Р			S	Х	Х
* Israel	F	Sr	Sr	Pr	Pr		S	F			S	Λ	Λ
* Italy	Pr	01	Pr	Pr	Pr	Р	P	S	S	S	5		
* Jamaica	P		F I	FI	ГІ	Г	Г	5	5	5	S		
* Japan	P		Р	Р	Pr		Р				3	Х	
* Jordan	Pr		r	P	P		S				S	Λ	
* Kazakhstan	P			Г	Г		S	S			S		
* Kenya							5	5			S		
* Korea, Rep. of	Pr		Pr	Ρ	Pr		Р	S			S	Х	Х
* Kuwait	P							5			0	Λ	Λ
Kyrgyzstan	1												
Lao People's Dem. Rep.													
* Latvia	Р	Р		Р	Р	Р	Р	Р	CS		S		
* Lebanon	Г	P	Р	P	P	Г	P	S	S	S	S		
Lesotho		r	F	L.	r		r	3	3	3	3		
* Liberia													
* Libyan Arab Jamahiriya			Р		Р						S		
* Liechtenstein			P	Р	P						3	Х	Х
* Lithuania	Р	Р	P	P	P	Р	Р	S	S	S	S	X	X
* Luxembourg	Pr	Г	Pr	P	P	Г	P	P	3	3	3	X	X
* Madagascar	FI		FI	г	Г		г	г			S	^	~
Malawi											3		
* Malaysia				Pr	Pr						S		
Maldives				PI	ΡI						3		
* Mali				S	S		Р				S		
* Malta				3	3		Г				S	Х	Х
* Marshall Islands											3	^	Λ
Mauritania													
* Mauritius	Р			Pr	Pr						S		
* Mexico	Pr	Р	Р	P	Р		Р				S		
Micronesia	FI	Г	r	г	Г		г				3		
* Monaco			Р	Pr	Pr		S					Х	Х
* Mongolia	Pw		Pw	Pw	Pw		3				S	^	Λ
* Morocco	Pr	S	S	P	P	S	S	Р	CS	CS	S	Х	
Mozambique	FI	3	3	L.	r	3	3	r	03	03	3	Λ	
* Myanmar				Pr							S	Х	Х
* Namibia				F1							S	Λ	~
Nepal											5		
* Netherlands	Р		Pr	Pr	Pr	Р	Р	Р					
* New Zealand	P		ГІ	PI	Pr	r	r	I.					
* Nicaragua	P			Pr	Pr		S				S		
* Niger	P	Р	S	S	S		3				S		
* Nigeria	г	r	3	P	P		S				S		
* Norway	Р		Pr	P	Pr	Р	P	Р			3		
Oman	г			L.	F.1	r	r	r					
* Pakistan	Pr		Pr	Pr	Pr		Р				S	Х	Х
Palau	FI		FI	F1	F.1		r				3	Λ	~
* Panama			Р	Р	Р						S		
 Panama Papua New Guinea 			٢	r	P						3		

TABLE A22. (cont.)

		P&I	VC	VC/OP	CPPNM	NOT	ASSIST	JP	NS	RADW	PVC	SUPP	RSA	VI	XIV.A
*	Paraguay			,	Р	S	S						S		
*	Peru		Р		P	Pr	Pr		Р	S	S	S	S		
*	Philippines	Р	P	Р	P	P	P	S	S	S	S	S	S		
*	Poland	Pw	P	Г	Pw	Pw	Pw	P	P	P	S	3	S	Х	Х
*	Portugal	F W	Г		Pr	P	S	г S	P	Г	3		S	Λ	Λ
*	Qatar				FI	г	3	3	Г				S		
*	Rep. of Moldova		Р		Р	Р	Р		Р				S		
*	Romania	Pr	P		Pr	Pr	Pr	Р	P	Р	CS	CS	S	Х	Х
*	Russian Federation	Pr	P S		Pr		Pr	٢	P	P S	63	63	3	Λ	^
	Rwanda	Pſ	5		Pſ	Pr	Pſ		Р	5					
	St. Kitts and Nevis														
	St. Lucia		D			D	D	D							
	St. Vincent and the Grenadine	es	Ρ			Ρ	Р	Ρ							
	Samoa														
	San Marino														
	São Tome and Principe					-	-						0		
	Saudia Arabia					Pr	Pr						S		
*	Senegal					S	S						S		
	Seychelles														
	Sierra Leone					S	S						S		
*	Singapore	Pr				Р	Р		Ρ				S		
*	Slovakia	Pw	Ρ		Р	Pr	Pr	Ρ	Р	Р			S		
*	olovenia	Р	Ρ		Р	Р	Р	Ρ	Ρ	Р				Х	Х
	Solomon Islands														
	Somalia														
	South Africa				Sr	Pr	Pr		Ρ						
*	Spain	Р	S		Pr	Pr	Pr	S	Ρ	Р			S		
*	Sri Lanka					Pr	Pr		Ρ				S		
*	Sudan				Р	S	S		S				S		
	Suriname														
	Swaziland														
*	Sweden	Р			Pr	Р	Pr	Ρ	Ρ	Р				Х	Х
*	owneedhana	Pr			Pr	Ρ	Р	S	Ρ	Р				Х	Х
*	Syrian Arab Republic	Р				S	S		S				S		
	Tajikistan				Р										
	Thailand	Pr				Pr	Pr						S		
*	The Former Yugoslav Rep.														
	of Macedonia		Ρ		Р	Ρ	Р						S		
	Togo														
	Trinidad and Tobago		Ρ		Р										
	Tunisia	Р			Р	Ρ	Р		S				S		
*	Turkey	Pr			Pr	Pr	Pr	S	Ρ				S		
	Turkmenistan														
	Uganda												S		
*	Ukraine	Pr	Ρ		Р	Pr	Pr	Ρ	Pr	Р	S	S	S		
	United Arab Emirates					Pr	Pr						S		
*	United Kingdom	Pw	S	S	Pr	Pr	Pr	S	Ρ	Р				Х	Х
*	United Rep. of Tanzania												S		
*	United States of America				Р	Pr	Pr		Ρ	S		S			
*	Uruguay		Р	Р		Р	Р		S				S		

TABLE A22. (cont.)

	P&I	VC	VC/OP	CPPNM	NOT	ASSIST	JP	NS	RADW	PVC	SUPP	RSA	VI	XIV.A
* Uzbekistan				Р								S		
Vanuatu														
* Venezuela												S		
* Viet Nam	Р				Pr	Pr						S		
* Yemen														
* Yugoslavia, Fed. Rep. of	Р	Ρ	S	Р	Ρ	Р						S		
* Zambia												S		
* Zimbabwe					S	S						S		

TABLE A23. CONVENTIONS NEGOTIATED AND ADOPTED UNDER THE AUSPICES OF THE AGENCY AND FOR WHICH THE DIRECTOR GENERAL OF THE AGENCY IS DEPOSITARY (STATUS AND RELEVANT DEVELOPMENTS)

Agreement on the Privileges and Immunities of the IAEA (reproduced in INFCIRC/9/Rev. 2). In 2001, one State accepted the Agreement. By the end of the year, there were 68 Parties.

Vienna Convention on Civil Liability for Nuclear Damage (reproduced in INFCIRC/500). Entered into force on 12 November 1977. In 2001, 1 State adhered to the Convention. By the end of the year there were 33 Parties.

Optional Protocol Concerning the Compulsory Settlement of Disputes (reproduced in INFCIRC/500/Add.3). Entered into force on 13 May 1999. In 2001, the status remained unchanged with two Parties.

Convention on the Physical Protection of Nuclear Material (reproduced in INFCIRC/274/Rev.1). Entered into force on 8 February 1987. In 2001, one State adhered to the Convention. By the end of the year there were 69 Parties.

Convention on Early Notification of a Nuclear Accident (reproduced in INFCIRC/335). Entered into force on 27 October 1986. In 2001, one State adhered to the Convention. By the end of the year there were 87 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 2001, one State adhered to the Convention. By the end of the year there were 83 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 2001, three States adhered to the Protocol. By the end of the year there were 24 Parties.

Convention on Nuclear Safety (reproduced in INFCIRC/449). Entered into force on 24 October 1996. In 2001, the status remained unchanged with 53 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 2001, four States adhered to the Convention and one State signed it. By the end of the year there were 27 Parties.

Protocol to Amend the Vienna Convention on Civil Liability for Nuclear Damage (reproduced in INFCIRC/566). Opened for signature on 29 September 1997. In 2001, one State adhered to the Protocol and one State signed it. By the end of the year there were 4 Contracting States and 15 Signatories.

Convention on Supplementary Compensation for Nuclear Damage (reproduced in INFCIRC/567). Opened for signature on 29 September 1997. In 2001, the status remained unchanged with 3 Contracting States and 13 Signatories.

African Regional Co-operative Agreement for Research, Development and Training Related to Nuclear Science and Technology (AFRA) (Second Extension) (reproduced in INFCIRC/377). Entered into force on 4 April 2000. In 2001, two States adhered to the Agreement. By the end of the year, there were 22 Parties.

Second 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. 18). Entered into force on 12 June 1997. In 2001, its status remained unchanged with 17 Parties.

Revised Supplementary Agreements Concerning the Provision of Technical Assistance by the IAEA (RSA). In 2001, three States concluded Agreements. By the end of the year 95 States had concluded RSA Agreements.

Co-operation Agreement for the Promotion of Nuclear Science and Technology in Latin America and the Caribbean (ARCAL) (reproduced in INFCIRC/582). Opened for signature on 25 September 1998. In 2001, four States adhered to the Agreement and three States signed it. By the end of the year there were 5 Contracting States and 17 Signatories.

TABLE A24. CO-ORDINATED RESEARCH PROJECTS - NEW OR COMPLETED IN 2001

A full list of all current CRPs is available on the Agency's WorldAtom web site. A printed copy is available, on request, from the Agency's Division of Public Information.

Nuclear Power

New

Economic research on, and assessment of, selected nuclear desalination projects and case studies

Evaluation of radiation damage to WWER reactor pressure vessels: Using the IAEA database on reactor pressure vessel materials

Verification of WWER steam generator tube integrity

Completed

Intercomparison of techniques for pressure tube inspection and diagnostics

Optimization of the coupling of nuclear reactors and desalination systems

Potential of thorium based fuel cycles to constrain plutonium and to reduce long term waste toxicities

Use of a thorium based fuel cycle in accelerator driven systems (ADSs) to incinerate plutonium and to reduce long term waste toxicities

Nuclear Fuel Cycle and Waste Management Technology

New

Corrosion of research reactor aluminium-clad spent fuel in water (Phase II)

Data processing technologies and diagnostics for water chemistry and corrosion control in nuclear power plants (DAWAC)

Nuclear fuel cycle aspects of the disposition of depleted uranium

Completed

Chemical durability and performance assessment of spent fuel and high level waste forms under simulated repository conditions (extended to 2005)

Combined methods of liquid radioactive waste treatment

Decommissioning techniques for research reactors

Modelling of transport of radioactive substances in primary circuit of water cooled reactors

Treatment of liquid effluent from uranium mines and mills during and after operation

Comparative Assessment for Sustainable Energy Development

New

Cost effectiveness of nuclear power compared to carbon dioxide capture and sequestration from fossil fuel power plants

Historical evolution of Indicators of Sustainable Energy Development (ISED) and the use of this information for designing guidelines for future energy strategies in conformity with the objectives of sustainable development Impact of infrastructural requirements on the competitiveness of nuclear power

Completed

Case studies to assess and compare different energy sources in sustainable energy and electricity supply strategies

Estimating the external costs associated with electricity generation options in developing countries using simplified methodologies

Food and Agriculture

New

Development of strategies for the effective monitoring of veterinary drug residues in livestock and livestock products in developing countries

Enabling technologies for the expansion of the sterile insect technique for the Old and New Screwworm Integrated approach for improving small scale market oriented dairy systems

Integrated soil, water and nutrient management for sustainable rice-wheat cropping systems in Asia

Use of irradiation to ensure hygienic quality of fresh, pre-cut fruits and vegetables and other minimally processed foods of plant origin

TABLE A24. (cont.)

Completed

Assessment of soil erosion through the use of caesium-137 and related techniques as a basis for soil conservation, sustainable production and environmental protection

Automation in tsetse fly mass rearing for use in sterile insect technique programmes

Cellular biology and biotechnology including mutation techniques for creation of new useful banana genotypes

Use of isotope techniques in studies on the management of organic matter and nutrient turnover for increased, sustainable agricultural production and environmental preservation

Use of nuclear and colorimetric techniques for measuring microbial protein supply from local feed resources in ruminant animals

Human Health

New

Application of isotopic and nuclear techniques in the study of nutrition pollution interactions and their impact on the nutritional status of human subjects in developing country populations

Comparative assessment of teletherapy modalities

- Development of techniques at Secondary Standard Dosimetry Laboratories for the dissemination of absorbed dose to water standards
- Development of thermoluminescence dosimetry based quality audits for radiotherapy dosimetry in non-reference conditions

Harmonization of protocols and procedures in the management of neonatal hydronephrosis

Isotopic and complementary tools for the study of micronutrient status and interactions in developing country populations exposed to multiple nutritional deficiencies

Radiopharmaceutical imaging to predict and evaluate the response of breast cancer to neo-adjuvant chemotherapy

Use of nuclear and related analytical techniques in studying human exposure to toxic elements consumed through foodstuffs contaminated by industrial activities

Completed

Clinical application of radiosensitizers in cancer radiotherapy

Development and validation of an Internet based clinical and technical study communication system for nuclear medicine

Development of a quality assurance programme for radiation therapy dosimetry in developing countries

Development of an improved serological kit for Chagas diagnosis using radionuclide methods

Electron paramagnetic resonance biodosimetry

Human immunodeficiency virus (HIV) markers in patients treated with radiotherapy for cervical cancer

Applications of Physical and Chemical Sciences

New

Atomic and molecular data for fusion plasma diagnostics Data for molecular processes in edge plasmas Dense magnetized plasmas Development of distance learning modules on troubleshooting of nuclear instruments In situ application of the X ray fluorescence technique

Completed WIMSD library update project

Nuclear Safety

Completed

Investigation of methodologies for incident analysis Round robin exercise on WWER-440 reactor pressure vessel weld metal irradiation embrittlement and annealing

TABLE A24. (cont.)

Radiation Safety

Completed

Development of radiological basis for the transport safety requirements for low specific activity materials and surface contaminated objects

TABLE A25. TRAINING COURSES, SEMINARS AND WORKSHOPS IN 2001

Nuclear Power

Courses

Korea International Cooperation Agency/IAEA training course on nuclear power planning and project management for middle level managers — Republic of Korea

Regional course on mechanical equipment — Republic of Korea

Regional course on modernization of nuclear power plant instrumentation and control systems — Germany Regional course on optimization of nuclear power plant maintenance programmes — Germany

Seminar

Status and prospects for small and medium sized reactors — Egypt

Workshops

Regional workshop on ageing management programme for mechanical equipment and instrumentation and control equipment — Headquarters

Regional workshop on application of the leak-before-break concept - Slovenia

Regional workshop on condition monitoring methods and techniques for assessing lifetime — Ukraine

Regional workshop on configuration management throughout plant service life - Slovenia

Regional workshop on data acquisition system and ageing management - Romania

Regional workshop on the economics of nuclear power plant performance — Hungary

Regional workshop on experience in the management of delayed nuclear power projects - Slovakia

Regional workshop on human-machine interface design for the main control room - Brazil

Regional workshop on management competencies required for the competitive environment — China

Regional workshop on managing human resources during organizational transition - Romania

Regional workshop on nuclear power plant maintenance and in-service inspection — China

Regional workshop on qualification of in-service inspection systems with special regard to the technical justification — Czech Republic

Regional workshop on strategies and policies in implementation of nuclear power plant life management programmes — Slovenia

Regional workshop on structural integrity assessment — Germany

Regional workshop on modern instrumentation and control technology for advanced process control systems — Islamic Republic of Iran

Workshop on advanced nuclear power plant simulation — Abdus Salam International Centre for Theoretical Physics, Trieste

Workshop on desalination economic evaluation — Abdus Salam International Centre for Theoretical Physics, Trieste

Workshop on hybrid nuclear systems for energy production, utilization of actinides and transmutation of long lived radioactive waste — Abdus Salam International Centre for Theoretical Physics, Trieste

Workshop on technologies for desalination — Abdus Salam International Centre for Theoretical Physics, Trieste

Nuclear Fuel Cycle and Waste Management Technology

Courses

Course on implementation of burnup credit in spent fuel management systems — USA Course on nuclear fuel cycle — Morocco

Decommissioning of research reactors and other small nuclear facilities — Republic of Korea Demonstration of predisposal waste management and procedures — Russian Federation Regional course on management of disused sealed radioactive sources — South Africa

Workshop

Computational workshop and course on implementing burnup credit — USA

Comparative Assessment for Sustainable Energy Development

Courses

National group training on energy planning for electricity generation using the Agency's WASP model — Armenia; Haiti

TABLE A25. (cont.)

National group training on the Energy and Power Evaluation Program (ENPEP) - Sudan

National group training on the IAEA's model FINPLAN for financial analysis of nuclear power projects — Bulgaria National group training on the use of Model for Analysis of Energy Demand (MAED) — Syrian Arab Republic Regional course on the Energy and Power Evaluation Program (ENPEP) as an IAEA tool for greenhouse gas (GHG)

abatement cost studies —Ukraine Regional course on the use of the Agency's methodologies and tools in greenhouse gas abatement studies — Republic of Korea

Seminars

Regional seminar to exchange experiences in conducting national studies on greenhouse gas abatement — Viet Nam

Workshops

Interregional workshop on enhanced energy system analysis and planning, incorporating social, economic and environmental aspects in decision making — USA

Food and Agriculture

Courses

Interregional course on the use of the sterile insect and related techniques for the area wide management of insect pests — USA

National group training in agriculture and related fields - Nigeria

National group training studying the fate of nitrate in soil and water under intensive vegetable production systems — Mauritius

Regional (AFRA) course on improved mutation, in vitro culture and drought screening techniques for the improvement of African crops — South Africa

Regional course on the application of neutron probe and nitrogen-15 under fertigation — Turkey

Regional Latin America course on fruit fly area wide management - Mexico

Workshops

FAO/IAEA regional training workshop on mutagenesis, molecular pathology and markers in date palm improvement — Tunisia

FAO/IAEA training workshop on in vitro plant multiplication, selection, mutagenesis and molecular marker studies in plant improvement — Malaysia

FAO/IAEA training workshop on induced mutations and biotechnology in ornamental plant improvement — Indonesia

FAO/IAEA workshop on introduction of quality assurance/quality control principles in the analysis of pesticide products — Hungary

FAO/IAEA (RCA) workshop on process control of irradiation as a sanitary and phytosanitary treatment for food — China

FAO/IAEA/WHO regional workshop for Africa and the Near East on development of quality assurance for mycotoxin analysis of food and feed — Egypt

ICGFI regional workshop for Latin America on certification of irradiation as a sanitary and phytosanitary treatment for food — Brazil

National training workshop on disease surveillance, reporting and emergency preparedness systems — Pakistan RCA training workshop on in vitro techniques for feed evaluation — Indonesia

Regional training workshop update on technologies for the surveillance of rinderpest freedom — Senegal Regional West Asia workshop on using GIS for SIT data management — Austria

Regional workshop to train trainers on methodologies and use of information communication technology (ICT) based training materials in animal reproduction and health — United Republic of Tanzania

South African Development Community/IAEA technical co-operation workshop on diagnostic kit production and related quality assurance issues in South African developing countries — Zimbabwe

Second FAO/IAEA interregional consultants meeting/workshop on developing standardized training material to assist FAO/IAEA Member States to establish quality systems for veterinary diagnostic laboratories — South Africa

TABLE A25. (cont.)

Workshop on integrated crop, soil, water and nutrient management in rice based cropping systems with emphasis on biofertilizer technologies — Bangladesh

Human Health

Courses

Course on basic clinical radiobiology (IAEA/ESTRO) - Spain Course on clinical research in radiation oncology (IAEA/ESTRO) - Turkey Course on dose and monitor unit calculations for high energy photon beams, basic principles and application to modern techniques (IAEA/ESTRO) - Portugal Course on evidence based radiation oncology: principles and methods (IAEA/ESTRO) - Egypt Course on imaging for target volume determination in radiotherapy (IAEA/ESTRO) - Poland Course on intensity modulated radiation therapy (IAEA/ESTRO) - Netherlands Course on modern brachytherapy techniques (IAEA/ESTRO) - France; Slovakia Course on physics for clinical radiotherapy (IAEA/ESTRO) - Belgium Course on radiation oncology in the new millennium (RCA/ISRO) - India Course on radiotherapy treatment planning: Principles and practices (IAEA/ESTRO) — Ireland Course on the physical aspects of quality assurance in radiotherapy — Argentina National course on basic radioimmunoassay - Sudan National course on radioimmunoassay: Theory, methodology and quality control - Viet Nam Regional course on basic nuclear cardiology - Egypt Regional (AFRA) course on brachytherapy — Tunisia Regional course on formulation of immunoradiometric assay for prostatic specific antigen using antibodies from open sources — Syrian Arab Republic Regional course on molecular biology techniques in diagnosis of viral hepatitis - Uruguay Regional course on nuclear cardiology - Estonia Regional course on nuclear cardiology technicians — Algeria Regional course on nuclear oncology — Italy Regional course on paediatric nuclear medicine for nuclear medicine physicians — Cyprus Regional course on radiation oncology: What have we learnt from evidenced based medicine? (RCA/ISRO) -India Regional (RCA) course on radiobiological and physical aspects of brachytherapy in uterine cervix cancer - Japan Regional course on radionuclide and molecular techniques in the detection of drug resistant malaria — Uganda Regional course on scintimammography, sentinel lymph node detection and intra-operative surgical probe technology — Pakistan Seminar on iron and zinc fortification of wheat flour - Indonesia Regional course on the operation of tissue banking: First phase — Argentina Regional (RCA) course on treatment planning in clinical radiation oncology — Australia Seminars National screening programme for neonatal hypothyroidism: Regional seminar for policy makers and professionals on congenital hypothyroidism - Philippines Workshops International workshop on k₀ users — Belgium International workshop on multi-micronutrient deficiency control in the life cycle - Peru National workshop on neonatal screening for congenital hypothyroidism in Viet Nam — Viet Nam National workshop on nuclear medicine — Colombia National workshop on a service network with tele-imaging and tele-maintenance — Bolivia Regional (AFRA) workshop on evidence based diagnostic radioimmunology - Mauritius Regional management workshop on strategies to enhance utilization of local radiopharmaceuticals - Republic of Korea Regional training workshop on atmospheric chemistry and transport — Republic of Korea Regional training workshop on nuclear cardiology techniques - South Africa Regional training workshop on paediatric nuclear medicine — Tunisia

TABLE A25. (cont.)

Regional training workshop on quality control of single photon emission computed tomography (SPECT) systems — Morocco

Regional training workshop on radionuclide treatment of liver cancer — Australia

Regional training workshop on review of the distance assistance training programme for nuclear medicine technologists — South Africa

Regional workshop on application of SPECT techniques in cardiology and oncology for nuclear medicine technologists — Viet Nam

Regional workshop on application of the manual of procedures in nuclear nephro-urology and its clinical applications — Mexico

Regional workshop on management of thyroid cancer — Philippines

Regional workshop on myocardial perfusion scintigraphy using SPECT for nuclear medicine physicians — Indonesia

Regional workshop on neutron monitoring and dosimetry - Republic of Korea

Regional workshop on quality assurance programme for molecular based diagnosis of infectious diseases — Thailand

Regional (AFRA) workshop on radiation oncology departmental management decision making — South Africa Regional workshop on traceability of measurements for protection level dosimetry — Latvia

Regional workshop on treatment planning — Germany

Workshop on capacity building in Africa in the area of food and nutrition — South Africa

Marine Environment and Water Resources

Courses

Advanced regional course on isotope data interpretation — USA

Basic regional course on the use of methodologies of isotope hydrology — Tunisia

MEDPOL course on the analyses of chlorinated pesticides and PCBs in marine samples --- Monaco

MEDPOL course on the analyses of trace metals in marine samples — Monaco

Regional course on groundwater: Evaluation, techniques and management — Colombia

Regional course on isotope hydrology - Namibia

Workshop

Regional workshop for project assessment of isotope applications for improved drinking water resources management — Republic of Korea

Applications of Physical and Chemical Sciences

Courses

Accelerator training school 2001 — Indonesia Regional course on fabrication of non-destructive testing test pieces — South Africa Regional course on surface methods: Level II — Jordan; Tunisia Regional course on ultrasonic testing proficiency of welds — Australia

Workshops

Regional workshop on neutron beam research — Republic of Korea Workshop on nuclear data for science and technology: Accelerator driven waste incineration — Italy

Nuclear Safety

Courses

Course on advanced ultrasonic testing — Russian Federation; Lithuania Course on safety design requirements of nuclear power plants — China Group training on the introduction of existing regulatory and utility design safety requirements — China Regional basic professional course on nuclear safety — France Regional basic professional course on nuclear safety (East Asia and Pacific) — USA Regional course for junior operators and regulators on safety and utilization of research reactors — Austria; Slovakia Regional course on advanced probabilistic safety assessment (PSA) modelling techniques — United Kingdom Regional course on regulatory control of nuclear power plants — Germany

TABLE A25. (cont.)

Regional course on the safety assessment of nuclear power plants — United Kingdom

Seminars

INES seminar — Czech Republic; Slovakia International seminar on horizontal steam generators — Finland Seminar on automated ultrasonic testing — Spain Seminar on qualification of welding techniques — USA Seminar on self-assessment of operational safety performance — Russian Federation

Workshops

First regional workshop on safety analysis and computer code utilization — Republic of Korea Management workshop on competencies for competitive environment — China National workshop on configuration management — China National workshop on external events in site and design of nuclear power plants — Lithuania National workshop on fundamental event analysis techniques — Republic of Korea National workshop on operational experience and event analysis techniques - Republic of Korea National workshop on self-assessment of operational safety - Pakistan Regional training workshop on safety analysis methodology and computer code utilization — Republic of Korea Regional workshop on accident management — Ukraine Regional workshop on ageing of research reactors — Brazil Regional workshop on comparison of thermal hydraulic analyses performed to support WWER-1000 PSAs -**Russian Federation** Regional workshop on core calculations — Argentina Regional workshop on development of safety analyses reports - Slovenia Regional workshop on emergency preparedness of research reactors — Romania Regional workshop on extended shutdown and decommissioning of research reactors — Latvia Regional workshop on fundamental techniques for event analyses - Lithuania Regional workshop on modernization of protection systems — Mexico; Peru Regional workshop on periodic safety review — Bulgaria Regional workshop on RBMK safety issues - Lithuania Regional workshop on regulatory review of licensee safety performance - USA Regional workshop on risk informed regulations - Hungary Regional workshop on safety culture — China Regional workshop on safety culture enhancement programme support - Slovakia Regional workshop on safety culture for research reactors — Chile Regional workshop on strategies for safe operation - Republic of Korea Regional workshop on the IAEA nuclear safety standards (safety requirements) — Japan Regional workshop on tools for enhancement of regulatory effectiveness — Slovenia Regional workshop on WWER-1000 design basis documentation management system — Czech Republic Strengthening safety assessment capabilities of nuclear power plants - Ukraine Workshop for middle and senior managers on harmonization of PSA - Spain Workshop on ageing of research reactors — China Workshop on assessing and assuring plant modification safety - Slovenia Workshop on BWR water chemistry - Germany Workshop on challenges to the operator-regulator interface — Germany Workshop on check criteria before acceptance for three categories of fast reactor design basis accidents ----China Workshop on engineering safety assessment of existing nuclear power plants — Russian Federation Workshop on periodic safety review - Bulgaria Workshop on probabilistic safety assessment for pressurized heavy water reactors — Canada Workshop on PSA: A tool to support operational decision making - India Workshop on regulatory aspects for research reactors — Viet Nam Workshop on regulatory body review and assessment of safety analysis reports - Czech Republic Workshop on regulatory requirement for licensing research reactors - Malaysia Workshop on requirements for level 2 PSA - China

TABLE A25. (cont.)

Workshop on requisites for establishment of regulatory body, licensing, inspection and enforcement — Viet Nam

Workshop on safe operating envelope for nuclear power plants with pressurized heavy water reactors — Canada Workshop on strengthening management of plant operational safety — Ukraine

Workshop on Tianwan nuclear power plant reactor protection system and validation and verification of the safety software — Germany

Workshop on training staff of a regulatory body based on competency - Brazil

Radiation Safety

Courses

National course on assistance with preparation of national training courses on radiation protection — Bolivia

National course on assistance with preparation of national training courses on radiation protection for officers in radiotherapy and nuclear medicine — Bolivia

National course on emergency preparedness and response to radiological emergencies — Costa Rica National course on emergency response and preparedness — Guatemala

National course on health surveillance and medical management of overexposed workers — Romania

National course on organization and implementation of a national regulatory programme for the control of radiation sources — Bosnia and Herzegovina

National course on radiation protection for officers in radiotherapy and nuclear medicine — Bolivia

National course on radiation protection for radiation protection officers — Guatemala

National course on radiation protection in diagnostic and interventional radiology - Latvia

National course on radiation protection in diagnostic radiology — Albania

National course on radiation protection in diagnostic radiology — Republic of Moldova

National course on radiation protection in hospitals — Saudi Arabia

National course on radiation protection in industrial radiography — The Former Yugoslav Republic of Macedonia National course on radiation protection in nuclear medicine — Lithuania

National course on radiation protection in radiotherapy — Estonia

National course on regulatory control of radiation sources - Malta

Post-graduate educational course in radiation protection and nuclear safety — Argentina

Post-graduate educational course in radiation protection and safety of radiation — Malaysia

Regional course on assessment of occupational exposure due to external radiation sources — Turkey

Regional course on design, implementation and management of individual monitoring programmes — Japan Regional course on organization and implementation of a national regulatory programme for the control of

radiation sources — Islamic Republic of Iran; Slovenia

Regional post-graduate diploma course in radiation protection — Syrian Arab Republic

Regional post-graduate educational course in radiation protection and safety of radiation sources — South Africa Regional train the trainers course for developing a syllabus/training material for optimization of radiation protection — Republic of Korea

Regional train the trainers course on medical education for nuclear accident preparedness - Slovenia

Seminars

National forum on the Basic Safety Standards — Colombia National seminar on legislative assistance (experts from URT) — Austria

National seminar on regulatory framework for nuclear and radiation safety - Nigeria

Workshops

IAEA–GCC workshop on radiation protection and waste safety infrastructure — Bahrain National train the trainers workshop on diagnosis and biological dose assessment of radiation injuries — China National workshop in nuclear medicine — Saudi Arabia National workshop on planning medical response to radiological accidents — Egypt National workshop on radiation protection in diagnostic, radiology, radiotherapy and nuclear medicine — Jordan Regional training workshop on radiation protection in diagnostic and interventional radiology — France Regional workshop on management of occupational radiation exposure during outages, Karachi nuclear power

plant — Pakistan

TABLE A25. (cont.)

Regional workshop on optimization of radiation protection in nuclear power plants for regulatory staff — Spain Regional workshop on the safety of radiation sources and security of radioactive materials — Morocco; Thailand Workshop on radiation protection for occupationally exposed workers of the IAEA Marine Environment Laboratory — Monaco

Radioactive Waste Safety

Courses

Regional course on decontamination and decommissioning of research reactors and other small nuclear facilities — Republic of Korea

Regional course on exposures to the public and their control — Belarus Regional course on sources, assessment, monitoring and control of public exposures — Lithuania

Seminars

Executive seminar on information/guidance on decommissioning - Lithuania

Workshops

National training workshop on rapid measurements of caesium-137 and strontium-90 in food — Ukraine Regional workshop on safety assessment methodologies for "RADON" radioactive waste disposal facilities — Russian Federation

Safeguards

Courses

Course on implementation of state systems of accounting for and control of nuclear material — USA Regional course on state systems of accounting for and control of nuclear material — Argentina; Australia

Seminars

Regional seminar on the protocol additional to nuclear safeguards agreements — Peru Seminar on legislative assistance to representatives from Bulgaria and the Slovak Republic — Headquarters

Workshops

National workshop on additional protocol and safeguards implementation — Romania Workshop on IAEA safeguards — Japan Workshop on IAEA safeguards activities — Russian Federation Workshop on nuclear material accounting and reporting — Ukraine

Workshop on the additional protocol for the Czech Republic and the Slovak Republic - Headquarters

Security of Material

Courses

Fifth Brno regional course on physical protection system design methodology (IAEA–USDOE) — Czech Republic Regional course on practical operation of physical protection systems — Russian Federation

Regional train the trainers course on combating illicit trafficking of nuclear and/or radioactive materials (IAEA–Russian Customs Academy) — Russian Federation

Seminars

Subregional workshop-seminar on physical protection — Lithuania

Workshops

National design basis threat (DBT) workshop — Kazakhstan; Romania; Slovakia

National workshop on combating illicit trafficking of nuclear and/or radioactive materials — Azerbaijan; Kazakhstan

Regional workshop on physical protection and combating the illegal movement of nuclear material and other radioactive sources — Argentina

TABLE A25. (cont.)

Policy-making, Management and Support Services

National public information seminar on application of nuclear science and technology for human welfare — Indonesia

Regional public information seminar on peaceful uses of nuclear energy in central and eastern Europe — Slovenia

Regional public information seminar on serving human needs: Nuclear energy and technology for Africa — South Africa

Regional workshop on case studies in nuclear public information — Republic of Korea

TABLE A26. PUBLICATIONS ISSUED IN 2001

Nuclear Power

A systematic approach to human performance improvement in nuclear power plants: Training solutions — IAEA-TECDOC-1204

Assuring the competence of nuclear power plant contractor personnel — IAEA-TECDOC-1232

Country nuclear power profiles: 2001 edition (print and CD-ROM)

Critical experiments and reactor physics calculations for low enriched HTGRs — IAEA-TECDOC-1249

Current status and future development of modular high temperature gas cooled reactor technology — IAEA-TECDOC-1198

Design and evaluation of heat utilization systems for the high temperature engineering test reactor — IAEA-TECDOC-1236

Effective management of nuclear power plant instrumentation and control modernization projects including development of a database (proceedings of a specialists meeting) (CD-ROM)

Gas turbine power conversion systems for modular HTGRs — IAEA-TECDOC-1238

Heat transport and afterheat removal for gas cooled reactors under accident conditions — IAEA-TECDOC-1163

Information integration in control rooms and technical offices in nuclear power plants — IAEA-TECDOC-1252

Introduction of nuclear desalination — Technical Reports Series No. 400

Managing change in nuclear utilities — IAEA-TECDOC-1226

Modernization of instrumentation and control in nuclear power plants (proceedings of a regional training course) (CD-ROM)

Nuclear power engineering section newsletter, Vo. 3, No. 1

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Restoration of environments with radioactive residues — Proceedings Series

Severity, probability and risk of accidents during maritime transport of radioactive material — IAEA-TECDOC-1231 The criticality accident in Sarov — special publication

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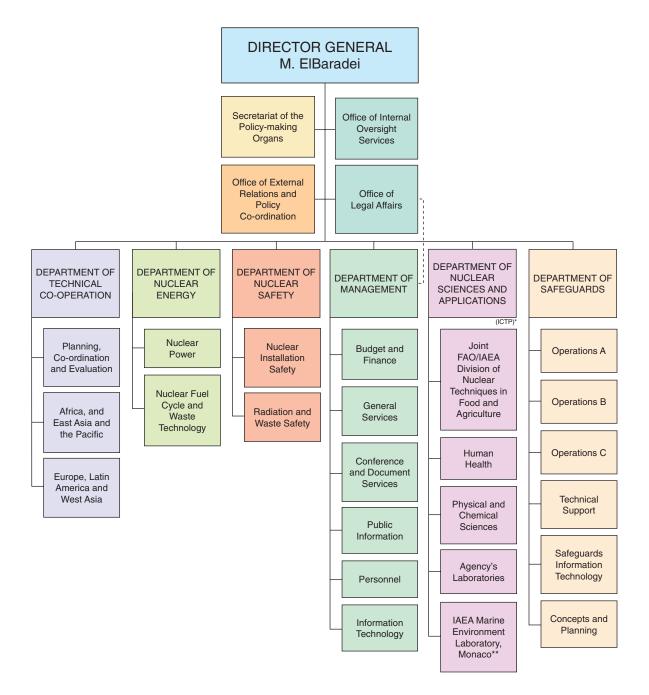
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International Atomic Energy Agency P.O. Box 100, Wagramer Strasse 5 A-1400 Vienna, Austria Telephone: (+43-1) 2600-0 Fax: (+43-1) 2600-7 E-Mail: Official.Mail@iaea.org