MAJOR PROGRAMME 1

NUCLEAR POWER, FUEL CYCLE AND NUCLEAR SCIENCE

Summary of Programme and Budget

Table 8

2004-05 Project Codes		2004 Regular Budget (2004 prices)	2004 Extra-Budgetary a_/	2004 CAURBs Unfunded	2005 Regular Budget (2004 prices)	2005 Extra-Budgetary a_/	2005 CAURBs Unfunded
1.	Overall Management, Co-ordination and Common Activities	702 000	-	-	702 000	-	-
		702 000	-	-	702 000	-	-
A.1.	Nuclear Power Plant Operating Performance and Life Cycle Management						
A.1.01	Continuous process improvement of NPP operating performance	401 700	-	7 000	404 800	-	22 000
A.1.02	Integrated NPP life cycle management including decommissioning	696 500	-	22 000	711 000	-	22 000
A.1.03	Databases to support NPP performance and life cycle management and improving human performance, quality and technical infrastructure	459 100	-	-	403 700	-	-
	Subtotal A.1.	1 557 300	-	29 000	1 519 500	-	44 000
A.2.	Improving Quality Assurance, Technical Infrastructure and Human Performance						
A.2.01	Strengthening and harmonization of NPP quality assurance/quality management principles	328 200	-	10 000	324 000	-	5 000
A.2.02	Strengthening national and regional nuclear power infrastructures	422 800	25 000	129 000	412 200	-	36 000
A.2.03	Effective training to achieve excellence in the performance of NPP personnel	474 900	-	45 000	526 600	-	50 000
	Subtotal A.2.	1 225 900	25 000	184 000	1 262 800	-	91 000
A.3	Co-ordination of International Collaboration for the Development of Innovative Nuclear Technologies						
A.3.01	Co-ordination of Agency activities for innovative nuclear technologies	184 700	227 000	17 000	200 500	162 000	52 000
A.3.02	Co-ordination of international collaborative R&D for innovative nuclear technologies	332 800	1 223 000	345 000	371 400	1 063 000	281 000
	Subtotal A.3	517 500	1 450 000	362 000	571 900	1 225 000	333 000
A.4	Technology Developments and Applications for Advanced Reactors						
A.4.01	Technology advances in water cooled reactors for improvements in economics and safety	562 300	125 000	25 000	569 500	125 000	25 000
A.4.02	Technology advances in fast reactors and accelerator driven systems (ADS)	486 600	50 000	102 000	432 700	50 000	60 000
A.4.03	Technology advances for gas cooled reactors (GCR)	282 000	30 000	54 000	297 600	30 000	39 000
A.4.04	Support for demonstration of nuclear seawater desalination	422 100	30 000	7 000	451 900	30 000	7 000
	Subtotal A.4.	1 753 000	235 000	188 000	1 751 700	235 000	131 000
Programme A - Nuclear Power		5 053 700	1 710 000	763 000	5 105 900	1 460 000	599 000

MAJOR PROGRAMME 1
NUCLEAR POWER, FUEL CYCLE AND NUCLEAR SCIENCE
Summary of Programme and Budget
Table 8 (Contd.)

2004-05 Project Codes		2004 Regular Budget (2004 prices)	2004 Extra-Budgetary a_/	2004 CAURBs Unfunded	2005 Regular Budget (2004 prices)	2005 Extra-Budgetary a_/	2005 CAURBs Unfunded
B.1.	Uranium Production Cycle and Environment						
B.1.01	Assessing uranium resources and projecting supply and demand	171 900	-	-	207 100	-	-
B.1.02	Promoting best practices in uranium production to support sustainability and minimize environmental impacts	264 500	-	51 000	261 300	-	51 000
	Subtotal B.1.	436 400	-	51 000	468 400	-	51 000
B.2.	Nuclear Fuel Performance and Technology						
B.2.01	Supporting the evaluation and reduction of core and primary circuit materials degradation in nuclear power plants	137 300	-	26 000	107 900	-	36 000
B.2.02	Promoting good fuel performance in operating nuclear power plants	260 700	-	16 000	258 600	-	13 000
B.2.03	Harmonizing fuel qualities and utilizing and promoting advanced technologies for power reactor fuel	172 400	-	40 000	174 400	-	104 000
	Subtotal B.2.	570 400	-	82 000	540 900	-	153 000
B.3.	Management of Spent Fuel from Power Reactors						
B.3.01	Promoting technologies and strategies for spent fuel management and updating information	258 400	-	16 000	256 200	-	11 000
B.3.02	Providing guidance on good practices for long term storage of spent fuel	300 400	-	13 000	292 700	-	17 000
	Subtotal B.3.	558 800	-	29 000	548 900	-	28 000
B.4.	Topical Nuclear Fuel Cycle Issues and Information Systems						
B.4.01	Facilitating innovative nuclear fuel cycle technologies for sustainability	253 200	-	65 000	284 400	-	71 000
B.4.02	Promoting solutions of nuclear fuel cycle issues	224 600	250 000	10 000	214 200	250 000	19 000
B.4.03	Maintaining and updating nuclear fuel cycle information systems	275 500	-	-	262 000	-	7 000
B.4.04	Materials management for different nuclear fuel cycle options	179 800	100 000	61 000	179 900	100 000	78 000
	Subtotal B.4.	933 100	350 000	136 000	940 500	350 000	175 000
Programme B - Nuclear Fuel Cycle and Materials Technologies		2 498 700	350 000	298 000	2 498 700	350 000	407 000

MAJOR PROGRAMME 1
NUCLEAR POWER, FUEL CYCLE AND NUCLEAR SCIENCE
Summary of Programme and Budget
Table 8 (Contd.)

2004-05 Project Codes		2004 Regular Budget (2004 prices)	2004 Extra-Budgetary a_/	2004 CAURBs Unfunded	2005 Regular Budget (2004 prices)	2005 Extra-Budgetary a_/	2005 CAURBs Unfunded
C.1.	Energy Modelling, Databanks and Capacity Building						
C.1.01	Energy, electricity and nuclear power economics: databanks on status and trends	562 300	-	-	562 300	-	-
C.1.02	Models for analysis and capacity building for sustainable energy development	833 700	-	-	844 000	-	-
	Subtotal C.1.	1 396 000	-	-	1 406 300	-	-
C.2.	Energy Economics Environment (3E) Analysis						
C.2.01	Economic analysis	751 900	-	-	776 600	-	-
C.2.02	Sustainable energy development	621 000	-	-	563 200	-	-
	Subtotal C.2.	1 372 900	-	-	1 339 800	-	-
C.3	Nuclear Knowledge Management						
C.3.01	Developing policy and guidance for nuclear knowledge management	376 700	-	23 000	288 500	-	23 000
C.3.02	Facilitating sustainable education and training in nuclear science and related fields	333 700	-	34 000	370 000	-	34 000
C.3.03	Maintenance and preservation of knowledge in specific areas of nuclear science and technology	724 800	-	-	761 100	-	-
	Subtotal C.3	1 435 200	-	57 000	1 419 600	-	57 000
C.4	International Nuclear Information System (INIS)						
C.4.01	INIS products and quality assurance	1 605 500	137 000	-	1 610 500	45 000	-
		-	-	-	-	-	-
C.4.02	INIS services, partnerships and outreach	488 500	-	-	496 600	-	-
		-	-	-	-	-	-
C.4.03	INIS development and innovation	580 500	-	-	580 500	-	-
		-	-	-	-	-	-
C.4.04	INIS training and capacity building	379 600	-	-	379 600	-	-
		-	-	-	-	-	-
C.4.05	INIS policy and planning	203 800	-	-	281 900	-	-
Subtotal C.4		3 257 900	137 000	-	3 349 100	45 000	-
Programme C - Capacity Building and Nuclear Knowledge Maintenance for Sustainable Energy Development		7 462 000	137 000	57 000	7 514 800	45 000	57 000

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NUCLEAR POWER, FUEL CYCLE AND NUCLEAR SCIENCE
Summary of Programme and Budget
Table 8 (Contd.)

2004-05 Project Codes		2004 Regular Budget (2004 prices)	2004 Extra-Budgetary a_/	2004 CAURBs Unfunded	2005 Regular Budget (2004 prices)	2005 Extra-Budgetary a_/	2005 CAURBs Unfunded
D.1.	Atomic and Nuclear Data						
D.1.01	Data services, data networks and user support	1 133 200	-	102 000	1 153 600	-	102 000
D.1.02	Nuclear data standards and evaluation methods	237 000	-	-	222 000	-	-
D.1.03	Nuclear data for radiotherapy using radioisotopes or external radiation sources	182 400	-	-	182 800	-	-
D.1.04	Atomic and molecular data for fusion experiments	403 900	12 000	-	365 900	12 000	-
D.1.05	Data for the Th-U fuel cycle	208 500	-	-	189 700	-	-
D.1.06	Nuclear data for reactor dosimetry	103 200	-	-	115 200	-	-
D.1.07	Nuclear data libraries for advanced nuclear facilities	153 700	-	40 000	192 500	-	20 000
	Subtotal D.1.	2 421 900	12 000	142 000	2 421 700	12 000	122 000
D.2.	Research Reactors						
D.2.01	Effective utilization of research reactors	351 700	-	25 000	364 200	-	69 000
D.2.02	Supporting research reactor modernization and promoting information exchange on innovative technology development	84 600	-	49 000	76 200	-	49 000
D.2.03	Addressing research reactor fuel cycle aspects	265 600	130 000	51 000	282 200	-	27 000
D.2.04	Facilitating transfer of know-how on decommissioning of research reactors and irradiated core materials	177 500	-	38 000	169 200	-	20 000
	Subtotal D.2.	879 400	130 000	163 000	891 800	-	165 000
D.3.	Utilization of Accelerators and Instrumentation						
D.3.01	Effective utilization of particle accelerators	446 400	-	15 000	452 500	-	15 000
D.3.02	Nuclear instrumentation maintenance	1 099 800	-	-	1 095 600	-	15 000
D.3.03	Improvements in nuclear spectrometry applications	912 200	-	-	913 800	-	16 000
	Subtotal D.3.	2 458 400	-	15 000	2 461 900	-	46 000
D.4.	Nuclear Fusion Research						
D.4.01	Supporting plasma physics and fusion research	446 000	-	-	425 300	-	-
D.4.02	International Thermonuclear Experimental Reactor (ITER)	104 500	-	-	104 500	-	-
	Subtotal D.4.	550 500	-	-	529 800	-	-
D.5.	Support to ICTP						
D.5.1	Support to ICTP	2 142 400	-	-	2 142 400	-	-
	Subtotal D.5.	2 142 400	-	-	2 142 400	-	-
Programme D - Nuclear Science		8 452 600	142 000	320 000	8 447 600	12 000	333 000
Major Programme 1		24 169 000	2 339 000	1 438 000	24 269 000	1 867 000	1 396 000

a_/ Includes CAURB's extrabudgetary and funds from other UN organizations (where applicable) - see Tables 3A and 3B for details.